Bakersfield College

2016-2017 Catalog

Panorama Campus
1801 Panorama Drive
Bakersfield, CA 93305

Delano Campus
1450 Timmons Avenue
Delano, CA 93215

Weill Institute
2100 Chester Avenue
Bakersfield, CA 93301

661/395-4011

www.bakersfieldcollege.edu

Bakersfield College is accredited by the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges (WASC), www.acswasc.org/index.htm, an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education and the California State Department of Education.
## Important Information

### Bakersfield College Accreditation

Bakersfield College, approved by the Chancellor of the California Community Colleges, is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges. The Western Association of Schools and Colleges is located at 10 Commercial Boulevard, Suite 204, Novato, California, and is an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. It meets all standards of the California State Department of Education and is listed in the Education Directory, Higher Education, Part 3, published by the United States Office of Education. The University of California, the California State University System, and other colleges and universities give full credit for appropriate courses completed at Bakersfield College. Student complaints must be in writing and directed to the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges at: www.accjc.org. Complaints may be made by contacting the ACCJC at 10 Commercial Boulevard, Suite 204, Novato, CA 94949 or at (415) 506-0234.

Bakersfield College is approved by the following:
- California Board of Registered Nursing
- California State Colleges and Universities
- California State Department of Education
- University of California

### Disclaimer

Bakersfield College reserves the right to modify its programs, tuition and fees, admission and graduation requirements, schedules, and other policies, procedures, and regulations stated in this catalog without notice. Addenda can be found at www.bakersfieldcollege.edu.

### Acknowledgments

Bakersfield College would like to thank the following individuals who contributed to the development of this 2016-2017 Bakersfield College Catalog.

Sharon Bush, John Carpenter, Amber Chiang, Gregory Cook, Nan Gomez-Heitzeberg, Steven Hellon, Shannon Musser, Erinn Pozzi, Billie Jo Rice

### Bakersfield College Academic Calendar

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*In courses other than semester length, the Office of Admissions and Records or the instructor should be consulted regarding drop, withdrawal, and refund deadlines.

### Alternate Formats

If this material is needed in an alternate format for people with disabilities, please contact Disabled Student Programs & Services at 661/395-4334.
President’s Welcome

It is with great anticipation that we release the 2016-2017 Bakersfield College Catalog. This catalog is one of many valuable tools that you’ll have available during your journey to success, achievement, graduation, and beyond.

Since our inaugural year in 1913, Bakersfield College has experienced tremendous growth. With over 103 years of rich history, I want to highlight that our first class on the Panorama campus was held in the spring of 1956. For the past 60 years, students before you have gained the knowledge and qualities they needed to achieve their goals - within the same walls, the same facilities, and on the same grounds you will stroll this year.

Sixty years later, many things have changed but one constant remains: Bakersfield College continues to contribute to the intellectual, cultural, and economic vitality of the communities it serves. And it is the future of Bakersfield, Delano, our neighboring communities, and our students that continually inspires us to become a better BC; one that is defined by our academic excellence, forward thinking, and commitment to every student.

I know college is a big step and it can be confusing and often intimidating. This year, I encourage you to seek help from the various student services available to you. They are designed to help you successfully finish your educational plan. Check our website or visit the Student Welcome Center for more information regarding services, such as academic advising, tutoring, the writing center, and more.

In closing, I invite you to get connected with Bakersfield College by following us on Facebook and subscribing to the President’s blog at https://bcpresidentblog.com/. As the year progresses, you’ll get all the latest news, see highlights from events, and even shout-outs to fellow students, professors, and cohorts.

And finally, to all students, new and returning, I wish you all the best for a successful and rewarding journey as you become a part of our rich history of students who have attended Bakersfield College.

Welcome to the Home of the Renegades!

In Renegade pride and collegiality,

Sonya Christian, Ed.D.
President, Bakersfield College
Locations and Contact Info

Panorama Campus
1801 Panorama Drive
Bakersfield CA 93305
661/395-4011

Delano Campus
1450 Timmons Avenue
Delano, CA 93215
661/720-2000

Weill Institute
2100 Chester Avenue
Bakersfield, CA 93301
661/336-5100

Administration
President ......................................................... 661/395-4211
Executive Vice President, Academic Affairs .... 661/395-4305
Vice President, Student Affairs ......................... 661/395-4204
Director, Marketing and Public Relations ............ 661/395-4256

Social Media
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Admissions and Records ................................. 661/395-4301
Facilities Scheduling ........................................ 661/395-4518
Financial Aid ............................................... 661/395-4428
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History of Bakersfield College

Established in 1913, Bakersfield College is one of the oldest two-year community colleges in the nation. The initial program offered a one-year curriculum, and in 1915 the trustees of the Kern County High School and Junior College District authorized a second year of junior college and normal school courses. The college opened its present day campus high above the Panorama bluffs in 1956. Bakersfield College offers courses at its satellite campuses located in downtown Bakersfield at the Weill Institute, at its Delano Campus, and other locations in Kern County.

The 153-acre Panorama Campus features a state-of-the-art library and technology center and a 19,000-seat stadium that is the crown jewel of community colleges nationwide.

As the majority of the buildings on the Panorama Campus are at least 50 years old, state and bond-funded construction will continue to upgrade facilities to help students achieve their academic goals.

Bakersfield College Mission

Bakersfield College provides opportunities for students from diverse economic, cultural, and educational backgrounds to attain Associate and Baccalaureate degrees and certificates, workplace skills, and preparation for transfer. Our rigorous and supportive learning environment fosters students’ abilities to think critically, communicate effectively, and demonstrate competencies and skills in order to engage productively in their communities and the world.

Bakersfield College Vision

Building upon more than 100 years of excellence, Bakersfield College continues to contribute to the intellectual, cultural, and economic vitality of the communities it serves.

Bakersfield College Core Values

- **Learning**: We foster curiosity, inquiry, critical thinking, and creativity within a safe and rigorous academic environment so that we might be empowered to radically transform our community into one that gives voice and power to all people.
- **Integrity**: We continue to develop and follow an ethical and moral consciousness which places the collective wellbeing and health above the self; this principled environment allows for open, constructive conversations and teaches us to trust each other’s vision so that we will be useful and effective in providing support, resources, and encouragement.
- **Wellness**: We believe health and wellness to be integral and foundational elements, and we understand that a holistic education improves all aspects of the individual and the society including the mind, body, and spirit; through education, we will positively impact the health of the natural environment and the global community.
- **Diversity**: We insist that diversity be valued and promoted, recognizing that multiple perspectives lead to a better education and knowledge of the world; listening and witnessing different experiences helps us to understand and contextualize power and privilege related to gender, race, class, religion, disability, and sexuality in terms of access and barriers to resources and opportunities.
- **Community**: We commit to the wellbeing of all members of our community; we maintain strong ties with the surrounding community, and we respond to their needs by serving as an open institution which engages all students, faculty, and staff; in our college, we have built and continue to build and environment in which all members participate as a community through democratic engagement.
- **Sustainability**: We recognize our responsibility for continuing and maintaining this institution which has been shaped by over 100 years of resolute and tenacious labor and judicious foresight, so we unceasingly place our energies into imagining how we might sustain and renew our fiscal, human, and environmental resources into the future.
**Student Right to Know**

In compliance with the federal Student Right-to-Know (SRTK) Act of 1990 (Public Law 101-542), it is the policy of Bakersfield College (BC) to publish its student completion and transfer rates. These rates are based on a limited cohort (or group) of students which are tracked for a three-year period. The cohort is limited because it includes only students who entered BC in the fall term as first-time, full-time students seeking a degree, certificate or transfer. Students included in the 2011 SRTK Cohort were tracked from Fall 2011 through Spring 2014 to determine their academic outcomes during the time period.

A student is included in the Completion Rate if they attained a certificate or degree or became ‘transfer prepared’ within the three-year period. Transfer-prepared is defined as having completed 60 transferable units with a GPA of 2.0 or better.

A student is included in the Transfer Rate if, within the three-year tracking period, they transferred to another postsecondary institution prior to receiving a certificate or degree or becoming ‘transfer-prepared’.

The table below compares BC’s Completion and Transfer Rates to the statewide community college average.

<table>
<thead>
<tr>
<th>2011 SRTK Cohort</th>
<th>Completion Rate</th>
<th>Transfer Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bakersfield College</td>
<td>23.1%</td>
<td>8.2%</td>
</tr>
<tr>
<td>Statewide</td>
<td>28.0%</td>
<td>12.1%</td>
</tr>
</tbody>
</table>

These rates do not represent the completion and transfer rates of the entire student population at Bakersfield College nor do they account for student outcomes occurring after the three-year tracking period. For further information on SRTK methodology, interpretation and rates at other community colleges, you can visit the CA Community College Chancellor’s Office web site at [http://srtk.cccco.edu/index.asp](http://srtk.cccco.edu/index.asp).

**Equal Opportunity Employment Statement**

In accordance with the requirements of the Civil Rights Act, Bakersfield College provides services and benefits to students regardless of race, color, national origin, ancestry, gender, age, religion, marital status, medical condition, or disability. The lack of English language skills will not be a barrier to administration and participation in vocational education programs. (Title VI and VII of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 503 and 504 of the Rehabilitation Act of 1973, as amended and the Americans with Disabilities Act of 1990)

All persons have the right to seek admission to and complete an educational program at Bakersfield College. Interference with students’ access and successful completion of their education by any person through unlawful discriminatory conduct will not be tolerated. The college will initiate disciplinary action against persons found to have interfered with a students’ education through any means of illegal or immoral intimidation.

The Kern Community College District will afford reasonable accommodations for applicants and employees to enable qualified individuals to perform essential job functions. Students with disabilities will be accommodated to ensure accessibility and full participation in educational programs. To request reasonable accommodations, applicants and employees should contact the Human Resources Manager at 661/395-4660. Students should contact Disabled Student Programs and Services at 661/395-4334.

**Unlawful Discrimination**

A complaint of alleged unlawful discrimination may be filed within one year of the alleged discrimination. For complaint forms or additional information, contact one of the following:

- Human Resources Manager
  1801 Panorama Drive
  Bakersfield, CA 93305
  661/395-4850

Additional inquiries pertaining to federal, state, and local equal opportunity laws, and the governing board policies of Bakersfield College or Kern Community College District (KCCD Board Policy Section 7-D) may be directed to the following office:

- Vice Chancellor, Human Resources
  Kern Community College District
  2100 Chester Avenue
  Bakersfield, CA 93301
  661/336-5141

**Declaración De Igualdad de Oportunidad**

De acuerdo con los requisitos de la acta de derechos civiles, Bakersfield College provee servicios y beneficios a todos estudiantes sin impedimento de raza, color, origen nacional, ancestría, género, edad, religión, estado civil, condición marital, o impedimento. La falta de capacidad de hablar inglés no ser un obstáculo para la admisión vocacionales. (Título VI y VII del Acto Civil de Derechos Civiles de 1974; Título IX de las Enmiendas de Educación de 1972; las Secciones 503 y 504 del Acto de Rehabilitación del 1973, como modificado.)

Toda persona tiene el derecho de solicitar admisión y completar un programa educativo en Bakersfield College. No se tolerada interferencia alguna con el acceso y termino exitoso de su educación a ninguna persona o estudiante por medio de conducta discriminatoria legal. El colegio iniciara acción disciplinaria contra las personas que sean descubiertas interfiriendo con la educacion de los estudiantes por medio de cualquier forma de intimidacion ilegal o immoral.

**Discriminación illegal**

Una queja de discriminación ilegal supuesta se puede ser registrada dentro del termino de un año de ocurrida la supuesta discriminación. Para obtener formas de quejas o información adicional usted puede ponerse en contacto con la siguiente persona:

- Human Resources Manager
  1801 Panorama Drive
  Bakersfield, CA 93305
  661/395-4850
Para preguntas adicionales referente a las leyes acción afirmativa y igualdad de oportunidad, ya sean al nivel federal, estatal, o local, y referente a la política del consejo de gobierno de Bakersfield College o del Distrito Escolar de la Comunidad de Kern, puede ponerse en contacto con siguiente oficina:

Vice Chancellor, Human Resources
Kern Community College District
2100 Chester Avenue
Bakersfield, CA 93301
661/336-5141

Students with Disabilities
Bakersfield College will make reasonable accommodations and/or academic adjustments to ensure that students with disabilities have an equal opportunity to participate in the college’s courses, programs and activities, including extracurricular activities. Students with disabilities who are requesting academic accommodations or auxiliary aids should contact Disabled Student Programs & Services at 661/395-4334. For DSPS services at the Delano Campus, please contact 661/720-2000. Participation by students with disabilities in Disabled Student Programs & Services is voluntary. Any student choosing not to participate in the program may elect an alternate path for services through the Vice President, Student Affairs.

The Bakersfield College Curriculum Committee approved the following Accessibility Statement: Bakersfield College recognizes the importance and benefits of using technology to enhance student learning, especially as it helps students, faculty and staff communicate more effectively. Every effort will be made to ensure that the design of instructional material and activities for ALL classes taught at Bakersfield College, both face-to-face and at a distance, are accessible to all students, including those with disabilities.

Estudiantes Incapacitados
Bakersfield College proveerá servicio y/o arreglos académicos para asegurar que estudiantes incapacitados tengan oportunidades iguales para participar en las clases de esta escuela, incluyendo actividades extraescolares. Tales estudiantes que piden arreglos o aparatos auxiliares deben llamar a Disabled Student Programs and Services a 661/395-4334. Participación es voluntaria. Estudiantes que no desean participar en este programa pueden ponerse en contacto con la oficina del Decano de Aprendizaje/Servicios Auxiliares.

Access to and Confidentiality of Student Records:
Privacy Act
Student records are protected by the Family Educational Rights and Privacy Act, state law, and Kern Community College District Board Policy from access by casual or unauthorized persons. Access to records is provided to the student; appropriate college staff members, persons having written consent of the student, officials of the United States Department of Education; or by court order or subpoena.

The Privacy Act affords Bakersfield College the right to release such directory information as the student’s name, address, e-mail address, photographs, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended. If a student does not want this information released, the student must check the privacy requested box on the admission/update forms.

Present and former Bakersfield College students are given the right to inspect, review, and challenge the contents of all educational records related to them. No information contained in their educational records may be released without their consent, except to those agencies or individuals authorized by the Act. Students wishing to inspect, review, or challenge any of their educational records must make a request in writing to the Director of Enrollment Services, 661/395-4301, Room A-17E. Copies of the Bakersfield College FERPA Policy are available in the Office of Admissions and Records in the Administration building, room 7.

Policy Concerning Sexual Harassment
Bakersfield College is fully committed to all federal, state, and local human rights and equal opportunity laws. Title VII of the Civil Rights Act of 1964, amended 1991, and Title IX of the Educational Amendments of 1972 are strictly enforced. This legislation specifically prohibits sexual discrimination in employment, educational programs, and services respectively.

Students have the right to gain access to and complete an educational program at Bakersfield College. Interference with students’ admission to and successful completion of their education by any person through unlawful sexual conduct will not be tolerated. The college will initiate disciplinary action against persons found to have interfered with a student’s education through any means of sexual harassment or intimidation.

Board policy sets forth complaint procedures regarding unlawful discrimination and sexual harassment. Students should refer to Section 7-D of the board policy for further information. The board policy can be obtained from the KCCD website.
As a new student...

If you have received a two-year or higher degree from another college but are new to Bakersfield College, you are exempt from the requirements for orientation, assessment, and counseling. All new students who are not exempt must complete the steps below before they can register for classes.

**Step 1 - Admission or Update**
Submit completed admissions form online at www.bakersfieldcollege.edu.

Foreign students holding visas must contact the International Counselor in the Advising and Counseling Office.

**Step 2 - Orientation**
New student orientation is designed to welcome new students into the Bakersfield College community. Orientation is required for all new students seeking to begin their educational experience. The program is designed to promote personal academic success, individual development, and introduce student and academic support programs that are available at the college. Orientation schedules can be found on the Bakersfield College website at www.bakersfieldcollege.edu.

**Step 3 - Testing and Placement Testing**
Students must participate in placement testing and are strongly advised to prepare for your placement tests in Math, Reading, and English. Visit the "Prepare for Your Assessment Test" page at www.bakersfieldcollege.edu.

Students can request accommodations for disabilities by calling 395-4334.

**Step 4 - Counseling/Abbreviated Student Educational Plan**
Students should attend a New Student Counseling Workshop to create a list of first semester classes.

**Step 5 - Register for Your Classes**

As a continuing student...

Continuing students are enrolled in current semester classes.

**Update**
Submit update form online at www.bakersfieldcollege.edu.

**Plan**
- Individual advising appointment
- SEP workshops
- Student Development courses
- Follow-up Services

As a former student...

Former students have been enrolled in Bakersfield College classes in the past, but not in the current semester.

**Update**
If you attended Bakersfield College before 1987, complete your admissions form as a new student. If you attended Bakersfield College in 1987 or after, complete the update form online at www.bakersfieldcollege.edu.

**Orientation**
Complete if you have not already attended orientation. If you have never attended an orientation, you are expected to participate in orientation before assessment testing. Orientation schedules can be found:
- at www.bakersfieldcollege.edu
- in Admissions & Records on the Panorama Campus
- at the Delano Campus

**Placement Testing**
Complete if you have not already taken the Bakersfield College assessment test. If not, you must participate in assessment if you plan to:
- take an English, Math, or other class with prerequisites
- earn a degree
- earn a certificate
- transfer

Placement information can be found online at www.bakersfieldcollege.edu.

Students can request accommodations for disabilities by calling 395-4334.
Admission and Registration

Academic Eligibility
A high school graduate, or anyone who has a Certificate of Proficiency or a General Education Development degree (GED) may be admitted to Bakersfield College.

Any person 18 years of age or older who is not a high school graduate may be admitted if his/her previous training or experience indicates that he/she will profit from the offerings of the college. Such students must have the approval of the Director of Enrollment Services.

Special Status Admission/Concurrent Enrollment
In accordance with California Education Code regulations, K-12 students may enroll as special part-time students on a seats-available basis. Enrollment must be recommended by the high school principal, have parental consent, and receive approval by the college Director of Enrollment Services. Units earned may be used for high school or college credit or both. Students enrolled under this program are exempted from paying enrollment fees. Concurrent students may not register for courses below college level. Non-resident fees apply.

Residency Determination
A ‘resident’ is a student who has physical presence in the state of California for more than one year immediately preceding the residence determination date, which is the day before the first day of classes, and has demonstrated an intent to make California a permanent home.

The resident of any California community college district may attend a community college in any other district in this state, subject to generally applicable admission criteria, and subject to any restrictions set forth in a notice of restriction issued by a district.

In order to determine a person’s place of residence, reference is made to the following statutory rules:

1. Every person has, in law, a residence.
2. Any person who is married or is 18 years of age or older and under no legal disability to do so, may establish residence.
3. In determining the place of residence the following rules are to be observed:
   a. There can be but one place of residence.
   b. A residence is the place where one remains when not called elsewhere for labor or other special or temporary purpose, and to which he/she returns in seasons of repose.
   c. A residence cannot be lost until another is gained.
   d. The residence can be changed only by the union of act and intent.
   e. A person’s residence shall not be derivative from that of his or her spouse.
   f. The residence of the parent with whom an unmarried child maintains his/her place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, his/her residence is that of the parent with whom he/she maintained his/her last place of abode, provided the minor may establish his/her residence when both parents are deceased and a legal guardian has not been appointed.
   g. The residence of an unmarried minor who has a parent living cannot be changed by his/her own act, by the appointment of a legal guardian, or by relinquishment of a parent’s right of control, unless the student qualifies for the self-supporting exception.
   h. Physical presence within California solely for educational purposes does not allow a student to establish residence, regardless of the length of time present in the state.

In general, a resident has citizenship or permanent resident status in the United States and has established residence in California for at least one year immediately preceding the residency determination date (the day before the first day of classes). If you do not have citizenship or permanent resident status in the United States, or
have questions regarding your status, please contact the Office of Admissions and Records in the Administration building, room 7 or at 661/395-4301.

International Students
Students from countries outside of the United States are eligible to attend Bakersfield College if they have the equivalent of U.S. high school diploma, proof of English proficiency as indicated on the International Student Services website, and sufficient financial resources to pay all expenses.

Admissions Form
An admissions form may be completed on the college web page at www.bakersfieldcollege.edu. It must be filed prior to registration. The application should include the prospective student’s Social Security Number. The Social Security Number will not appear on class roll sheets.

Changing Identification Numbers
All students are assigned an identification number when a completed admissions form is submitted to the Office of Admissions and Records in the Administration building, room 7. Students may use the assigned numbers or their Social Security numbers to access their academic records.

Changing Directory Information
Students may change their name by bringing a State issued photo identification and documentation of the name change in person to the Office of Admissions and Records, in the Administration building, room 7. They may change their address, telephone number; or personal email address on the web at www.bakersfieldcollege.edu. To do that they must select “Register for Classes,” login and the select “Personal Information.”

Passwords
When prospective students complete their admission forms online, they will be asked to create a password. The number must be 8-20 characters long, and contain letters and numbers. Students should select combinations they will be able to remember but that other people would be unable to know.

The first time that students login to register they will be asked to select a password hint question from a drop down menu. They fill in the answer to the question that they select with a one or two word answer. Then, when students forget their passwords, they can click the “Forgot Password” button, and if they enter the correct response, they will be given a screen on which to enter a new password. Call the Help Desk for assistance at (877) 382-3508.

Enrollment
All students are required to have an educational/career goal when they fill out their admission form. A student’s educational/career goal is his/her reason for attending college. Bakersfield College is committed to assisting students in successfully reaching their goals. This partnership between the college and the students consists of the following:

The college agrees to provide:
- An admission process
- A testing and placement process
- Academic advising to complete abbreviated and comprehensive educational plans
- Quality instruction
- A wide variety of courses
- Referral to support services as necessary
- Follow up services for academic progress

The college requires that students:
- Complete an orientation session
- Complete an orientation session
- Complete testing and placement
- Declare a specific educational objective or career path
- Create an abbreviated educational plan for their first semester
- Create a comprehensive educational plan after completing 15 units of course work
- Attend classes regularly, complete assigned coursework and seek out support services as necessary
- Complete courses and maintain progress toward an educational/career goal as identified in the individual student education plan
- Seek out support services as needed

Assessment 661/395-4479
Academic skills assessment is designed to determine students’ entry level skills in reading, writing, mathematics, and English as a Second Language. Academic skills assessment may be waived by providing proof of eligibility for admission to a California State University with the appropriate combination of ACT and SAT scores and high school grade point average.

Assessment Policy for Students with Disabilities 661/395-4334
Persons with disabilities who might require testing accommodations should contact Disabled Student Programs and Services. In compliance with federal and state laws, Bakersfield College assures each student an equal opportunity to demonstrate competency or knowledge in a subject area at each point in the educational process. Students with disabilities are expected to demonstrate the same competency or knowledge as other students.

Accommodations are made on an individual basis. Such accommodations may include, but are not limited to, an extension of time, the use of a typewriter, the use of a computer, the use of a spell checker or calculator, the use of a tape recorder and, where appropriate to the disability, an alternative mode of assessment. These tests take place in the Assessment Center.
Precollegiate Pathways

Math Placement and Flowchart

New students are placed into a mathematics course one of the following ways:

- Completing the prerequisite class in the flowchart below
- Through the Bakersfield College Math placement test
- By earning “Ready for CSU college-level math courses” status on the EAP exam
- By passing the AP Calculus AB exam or AP Statistics exam with a score of 3 or above
- Submitting results from completed math assessment taken at another California community college
- By earning a ‘C’ or better grade in a mathematics course taken at another college or university AND submit a copy of college/university transcript to admission and records office
**English Placement and Flowchart**

New students are placed into an English course one of the following ways:

- Completing the prerequisite class in the flowchart below
- Through the Bakersfield College English placement exam
- By earning "Ready for CSU college-level English courses" status on the EAP exam
- By passing the AP English Language or Literature Composition Exam with a score of 3 or above
- Submitting results from completed English assessment taken at another California public college or university
- By earning a ‘C’ or better grade in an English course taken at another college or university AND submit a copy of college/university transcript to admissions and records office

**Reading Placement and Flowchart**

Many college level courses have reading prerequisites. The assessment course places students into the reading series which includes traditional and accelerated coursework to help students succeed in all their courses.
Policy for Students whose Primary Language is Not English

Persons whose primary language is not English are encouraged to take the English as a Second Language assessment in the Assessment Center at both the Panorama Campus and the Delano Campus. Orientation for students whose primary language is not English is scheduled on both campuses as well.

Exemptions

Only students who have completed an associate degree or higher may be exempt from orientation, assessment, and counseling; however, if a student wishes to enroll in a course that has a prerequisite, he/she must show proof of meeting the prerequisite or take the English, reading, or math assessment.

A student may also decline to participate in the matriculation process, but in so doing relinquishes the right to participate in early registration and may not be able to enroll in courses that have prerequisite requirements. Information is available in the Office of Admissions and Records in the Administration building, room 7 and the Counseling Center in the Student Services building.

Students have the right to challenge or appeal any allegation of violation of enrollment regulations. Challenges or appeals should be submitted to the Vice President of Student Affairs.

Course Admission Policy

The policy of the college is that, unless specifically exempted by statute or regulation, every course, course section, or class reported for state aid, wherever offered and maintained by the college, shall be fully open to enrollment and participation by any person who has been admitted to the college and, when applicable, a relevant program, and who meets established prerequisites.

Prerequisites

Many Bakersfield College courses have basic skills or course prerequisites. These prerequisites are established to assist students in selecting courses for which they have the entry level skills. Students who believe that they have the entry level skills without the appropriate placement test score or previous course may challenge the prerequisite. Students have the right to:

1. Appeal a prerequisite course requirement because the required course is not available.
2. Challenge any prerequisite believed to be discriminatory.
3. Challenge any matriculation regulations/procedures that have the effect of being discriminatory based on how the services are applied to students.
4. Be provided alternative services for the matriculation process if necessary for ethnic and language minority students and students with disabilities.

Questions about challenges or appeals for a prerequisite or placement regulation/procedure should be directed to Advising and Counseling in the Student Services building.

Student Educational Plans (SEPs)

An SEP outlines a suggested course of study for the individual student based on major, transfer plans, and sequence of courses. Students are encouraged to meet with an advisor or counselor or attend an SEP Workshop to develop and update their plan each semester or when a change is made to their major, transfer institution, or other pertinent objectives. Students can make an appointment in the Advising and Counseling Center, located on the lower level of the Student Services building or call 661/395-4421.

Bakersfield College's educational advising and counseling program's purpose is to assist students in the development of meaningful educational plans which advance their progress toward a certificate, associate degree, or successful transfer to baccalaureate programs at campuses within either the University of California or California State University systems. The Transfer Center and the Advising and Counseling staff also assist students in identifying and understanding the transfer requirements at private colleges and universities. Additionally, academic advising services assist individuals in need of developmental educational opportunities as well as those who need to retool or retrain. Within this context, advisors and counselors assist students in developing educational plans compatible with a diverse set of career and life goals.

The best time to schedule an appointment for your SEP is:
Fall Semester  September-October
Spring Semester  February-March

Students who have completed lower division coursework at other colleges and universities and wish to apply that coursework to completion of a Bakersfield College certificate, associate degree, or to a California State University General Education Certification, or to an IGETC certification should have their transcripts officially evaluated. For more information, visit the Admissions and Records page on the student portal at inside.bakersfieldcollege.edu.

Early (Priority) Registration Appointments

Bakersfield College recognizes that students who complete all enrollment steps (Orientation, Placement, Testing, Advising and Counseling, and abbreviated and comprehensive Student Educational Plan) are more likely to reach their academic goals. These students are given special registration priority appointments. In order to ensure that students who are progressing successfully toward those academic goals have the opportunity to continue that progress, students who have attempted less than 100 units will be allowed to register earlier than those with over 100 units attempted. For their first semester of registration, students who receive earlier appointments will have completed these enrollment steps. The order of appointment assignments will be as follows:

- Students in special populations such as veterans who have been discharged within the last three years, foster youth, EOP&S, CalWORKS, DSP&S, President's Scholars, honor's, MIH program, or athletics.
- Continuing students with less than 100 units attempted at Bakersfield College and prior year graduates of local high schools.
- New students not included above.

Continuing students who have not completed all four enrollment steps will be assigned appointments during the first few days of open registration based on the date they completed their admission/update forms.

Registering for Classes

All course registration takes place on Bakersfield College's web registration system. Detailed instructions for the use of this system
can be found in the Registration Information on the Bakersfield College website at www.bakersfieldcollege.edu.

Students must be officially registered or on the official waitlist before attending classes. Registration dates are indicated in the “About the College” section of this catalog and on the Bakersfield College website.

**Waitlists**
The electronic waitlist allows students to be moved into a class when seats are available. It is a true first-come, first-serve system. Students trying to register for classes that are closed will be able to select waitlist. During the weeks prior to the start of classes, when vacancies occur in classes, the first student(s) on the waitlist will be moved into the class. Students who are on a waitlist should check their registration regularly on the web. They will have ten days to pay for the class once they have moved into registered status. Students will not be charged the enrollment fees for waitlist classes until they are actually enrolled in the class.

Students should use the waitlist to ensure themselves a chance of getting into the classes they want.

Students on waitlists still must attend the first meeting of the class or be dropped from the waitlist. The prerequisite, basic skills, time conflict and repeat checks will prevent ineligible students from moving into the classes.

Students should drop themselves from a waitlist for any class that they no longer wish to take. If a new section of a class is opened at the same day and time as a section with a waitlist, students on the waitlist will be automatically enrolled into the new section.

**Maximum Study Load**
Students may enroll in a maximum of 19 units per semester and 7 units in summer. Students with strong academic records may be cleared to enroll in more units by completing an overload request form in the Advising and Counseling Center.

**Minimum Study Load**
Students must enroll in a minimum study load in order to meet certain qualifications such as:

1. Certification as a full-time student to the Department of Health and Human Services: 12 units.
2. Approval by the Veterans Administration for training under Chapter 31, 32, 33, 34, 35 or 1606, Title 38 U.S. Code.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full time</td>
<td>12 units</td>
</tr>
<tr>
<td>3/4 time</td>
<td>9-11 units</td>
</tr>
<tr>
<td>1/2 time</td>
<td>6-8 units</td>
</tr>
</tbody>
</table>
3. F-1 Visa (foreign) student status: 12 units.
4. Eligibility to participate in intercollegiate athletics: 12 units (Repeated courses, previously passed with a C or higher cannot be counted.) Student athletes must maintain a C average (2.0 grade point average) or higher.
5. Eligibility to participate in student government as an office holder: 6 units.

**Academic Success and Progression**

According to the Kern Community College District Board of Trustees Board Policy Manual pages 48 and 49, students must display academic progress in order to graduate from a program of study or meet minimum requirements for prerequisites.

4D1C - 18 units of study must be completed in a discipline or from related disciplines as listed in the Community Colleges’ Taxonomy of Programs. Each course counted in this section must be completed with a grade of ‘C’ or better, or a ‘P’ if the course is taken on a pass/no pass basis.

4D1D - 18 semester units of general education must be completed and shall include at least 1 course in each of the following areas:

1. Natural Sciences
2. Social and Behavioral Sciences
3. Humanities
4. Language and Rationality

A course designated by each College as meeting the Ethnic Studies requirement must be taken in at least one of these 4 areas. Courses counted to meet this general education requirement must be completed with a grade point average of 2.0 or better.

4D2B2 - The colleges may award locally approved certificates with fewer than 18 units that certify that a student has completed a credit course or a sequence of credit courses to meet documented workplace needs/standards by demonstrating a level of knowledge, skill(s), and ability(ies) sufficient to earn a minimum grade of ‘C’ in each required course.

**Repeating a Course**
Certain Bakersfield College courses are identified in the course description sections of the catalog as repeatable, with the number of times they may be repeated indicated.

Other courses may be repeated once for credit if a grade lower than C or its equivalent has been earned. The original and subsequent grades will remain a part of the student’s permanent record. The earlier attempts will be disregarded in the student’s GPA calculation.

If a student earns any combination of ‘D’, ‘F’, or ‘W’ on two attempts in a course taken in the Kern Community College District, that student can only register for a third time with the signature of the faculty chair of the department on a Request to Repeat a Course Beyond the Limit form. This form is available from the Office of Admissions and Records in the Administration building, room 7.

In compliance with Title 5 California Code of Regulations Section 56029, certain course repeats may be authorized for students with disabilities following DSPS policies and procedures.

Courses may also be repeated if the previous grade is at least in part a result of extenuating circumstances such as verified cases of illness, accidents, or other circumstances beyond the control of the student. Approval to repeat under these circumstances should be obtained prior to registration in the Office of Admissions and Records in the Administration building, room 7. In these circumstances, the previous grade will not be disregarded in the calculation of the GPA.

A student may repeat a course to meet a legally mandated training requirement as a condition of continued paid or volunteer employment. The course may be repeated for credit any number
of times, regardless of whether or not substandard work was previously recorded, and the grade received each time shall be included for purposes of calculating the student's grade point average.

The college can provide no assurance that repeated courses will be treated in a similar manner by other educational institutions.

**Remedial Coursework Limitation**
Remedial coursework refers to precollege basic skills courses defined as courses in reading, writing, computation, learning skills and English for Multilingual Students, which are designated as non-degree credit courses. No student shall receive more than thirty (30) semester units of credit for remedial coursework within the Kern Community College district, except for the following:
1. Students currently enrolled in one or more courses of English as a Second Language
2. Students identified by Bakersfield College as having a qualifying disability

**Auditing a Course**
Students who have been admitted to the college may enroll in courses as auditors with the permission of the instructor and subject to the following provisions:
1. Priority shall be given to students who wish to take the course for credit.
2. A student in a course shall not be permitted to change from audit to credit status nor from credit to audit.
3. The cost to audit a class is $15 per unit. (Students enrolled in 10 or more other units will not be charged this fee.)
4. A course audit shall be approved under only one of the following conditions:
   * Participation by audit serves a specific educational purpose necessary to achieve the student's educational goal
   * Participation by audit benefits other registered participants in performance arts or intercollegiate athletics courses
5. The course instructor and College President or designee shall approve audit enrollments.

Course Audit Forms are available in the Office of Admissions and Records in the Administration building, room 7 beginning on the first day of class.

**Holds that Prevent Registration**

**Financial Holds**
Holds may be placed on a student's record whenever that student is delinquent or has failed to pay any debt owed to the college or failed to return any library books or other college property or equipment. Students with holds will not be allowed to receive transcripts, certificates or diplomas; have transcripts forwarded; and/or receive other services related to student records. They may not be allowed to register. When the student has cleared the obligation with the Office of Business Services at Bakersfield College, the hold will be removed.

**Academic Standing**
A student who is not in good academic standing will have a hold placed on his/her record until he/she attends an online workshop to make plans to improve his/her grades. These holds will prevent registration.

**Probation**

**Academic Probation**—A student who has attempted at least 12 cumulative semester units shall be placed on academic probation when he/she has earned a cumulative semester grade point average below 2.0.

**Progress Probation**—A student who attempted at least 12 cumulative semester units shall be placed on progress probation when the percentage of all units for which entries of 'W', 'I', NC and 'NP' reaches or exceeds 50 percent.

Students transferring from other collegiate institutions will be placed on probation according to these same standards.

Students on probation may be limited to specific courses and to the number of units for which they may register. The academic status of each student is printed on the student transcript which is updated at the conclusion of each academic term.

**Removal From Probation**
A student on academic probation for a grade point deficiency shall be removed from probation when the student’s cumulative grade point average reaches 2.0 or higher.

A student on progress probation shall be removed from probation when the percentage of 'W', 'I', NC and 'NP' units falls below 50 percent.

**Disqualification**
Any student who is placed on academic probation for three consecutive semesters of enrollment shall be disqualified for admission to classes the following semester unless, during the last semester of enrollment, the student earned a grade point average of 2.0 or higher, in which case the student shall be placed on continued probation.

Any student who is placed on progress probation for three consecutive semesters of enrollment shall be disqualified for admission to classes the following semester, unless during the last semester of enrollment, the percentage of units with entries of 'W', 'I', NC and 'NP' was less than 50 percent, in which case the student shall be placed on continued probation.

**Reinstatement**
A student who is disqualified may be ineligible to attend Bakersfield College. He/she may be conditionally readmitted the following semester upon petition to the Advising and Counseling Center. A readmitted student may be restricted to specific courses or programs, and a limitation will be placed on the number of units attempted. Reinstatement application forms may be obtained in the Advising and Counseling Center, located on the lower level of the Student Services building.

**Alternate Class Formats**

**Distance Learning 661/395-4635**
Distance Learning consists of courses offered from a wide variety of disciplines using non-traditional delivery methods: interactive, online, and hybrid. Dependent upon semester scheduling, Distance Learning provides additional educational options to anyone
Bakersfield College offers a variety of online courses, allowing students to self-select classes free of any geographic and time boundaries. It is vital that students have a basic understanding of computer usage, dependable access to the internet, and know how to send and receive e-mail.

Bakersfield College interactive courses connect with classrooms on the Delano Campus, 35 miles north of Bakersfield. Interactive classes may also connect with classes at Porterville College and/or Cerro Coso Community College. Instructors may teach from an origination site at any of the campuses, using real-time two-way video/two-way audio technology. Students benefit from interactivity with students enrolled at one or more remote locations.

Hybrid courses use the internet as the predominate delivery method combined with traditional face-to-face classroom sessions. Students must be able to come to the main Bakersfield College campus for an orientation session during the semester as well as have access to and be able to use the internet.

**Learning Communities, Compressed, and Accelerated Courses 661/395-4433**

Bakersfield College offers learning communities, compressed and stacked, and accelerated courses. All give students the opportunity to develop necessary college skills and complete courses while gaining individual support within an organized group of learners.

In a learning community, students are enrolled in two linked courses, with the same cohort, or group of students. In a learning community, the courses may have a theme, such as the African-American Experience Learning Community, which is part of the African-American Success through Excellence and Persistence (ASTEP) program. In a compressed and stacked course, two sequential courses are combined, which allows students to complete sequential courses in one semester instead of two or more. Typically, the content of a single course is compressed into an eight-week segment, which is followed immediately by the next course in the sequence, also taught in a compressed format for eight weeks. Notably, students register for the two sequential courses or two linked courses at the start of the semester, but will earn credit for both courses once they complete the sequence.

Bakersfield College continues to offer a variety of learning communities and compressed and stacked courses that combine a variety of courses, most typically in English, math, and study skills. At least one option is offered each semester. Check the schedule of classes under a learning community search to locate the most current learning community and compressed and stacked courses being offered.

An accelerated course is a redesigned course that is open to students who test into more than one level, and that includes increased support. Currently, students at the English placement level of 04 (English 60) or 05 (English 50) level are eligible to take English B53. In this course, students will strengthen their critical thinking and their ability to develop arguments at the college level, and those who are successful in English B53 will be eligible for ENGL B1A. Check the schedule of classes under English to find available sections of English B53.

**Cooperative Work Experience Education 661/395-4550**

1. General Work Experience Education (WEXP B250) is supervised employment which is intended to assist students in acquiring desirable work habits, attitudes and career awareness. The work experience need not be related to the students’ educational goals. Contact the Office of Career Technical Education for more information.

2. Occupational Work Experience Education (WEXP B248) is supervised employment extending classroom based occupational learning at an on-the-job station relating to the students’ educational or occupational goal. Work experience credit may be transferable to many colleges and universities. Contact the Office of Career Technical Education for more information.

**Basic Skills/Precollege Coursework**

Basic skills courses teach fundamental skills in reading, writing, computation, and study skills that are applicable to any area of study. They provide open access, support services, basic skills courses, resources, and equipment and technology to California Community College students. Basic skills courses are offered in the Academic Development (ACDV), English (ENGL), English for Multilingual Students (EMLS), and Mathematics (MATH) Departments.

The term “Basic Skills” comprises many areas. The essence of college in general, and basic skills in particular, is to develop skills which will allow students to think abstractly, understand complex concepts, synthesize information, solve multi-step problems, read books and articles, communicate effectively, and leave college with the ability to live, work, and become involved in issues and activities within the community (Winston, R. “Basic Skills: the Promise of Access for California Community College Students,” FACCCTS, Spring 2007: 17-18. Print).

Incoming Bakersfield College students take computerized placement tests that determine their entry levels in reading, writing, and mathematics. Students are encouraged to take their Academic Development, English, Reading, and Math courses early in their college career, as research shows that basic skills courses improve student success rates.

State regulations set a maximum of 30 units for basic skills courses taken by any student. If a student’s skills are such that more than 30 units will be required to reach college level, that student will be counseled regarding other possible ways to build those skills. Exempted from the 30-unit limitation are students enrolled in English for Multilingual Students (EMLS) courses and students identified as having a disability.

**Delano Campus 661/720-2000**

The Delano Campus provides the community with access to Bakersfield College programs and services. Students live in Delano and the rural communities of northern Kern and southern Tulare counties. Day and evening general education, transfer and vocational
courses are available to help students obtain an Associate in Arts degree or technical certification. Student and instructional support services include Counseling, Financial Advising, Educational Advising, Assessment Testing, Disabled Student Programs and Services, Extended Opportunity Programs & Services, Computer Lab, Multi-Subject Tutoring, Admissions, Registration and more. The Delano Campus is located at 1450 Timmons Avenue, Delano, California.

Weill Institute Compliance School and Entrepreneur School 661/336-5010
The Weill Institute is located in downtown Bakersfield at 21st Street and Chester Avenue (with parking and main entry in the parking lot off of L Street). The evening instructional program provides a variety of vocational, general education, and transfer courses. Both semester-length and short-term courses are available.

Weill Institute Business Center 661/395-4104
The Weill Institute Business Center provides economic and workforce development services. The needs of business, industry and the workforce are met with a highly-skilled staff that provide customized training, job skill assessment, bilingual training, performance consulting, organizational development, and many other services. The Business Center also operates the California Compliance School and the Regional Environmental Business Assistance Center.

Also located at the Weill Institute Business Center is the Business Assistance Center, which operates under grants from the U.S. Small Business Administration, the Chancellor’s Office of California Community Colleges, and other agencies. The Business Assistance Center offers free counseling to small business owners and individuals interested in starting a business in Kern, Inyo, and Mono counties. Affordable seminars and workshops are held on a regular basis for practical guidance in owning and operating a small business.

College Fees, Tuition, Books, and Fee Refunds

Community College Enrollment Fees
Enrollment fees are set by the state of California. Enrollment fees are $46 per unit for the 2016-2017 academic year. If the state of California increases the fees, a supplemental bill will be sent to all students.

Nonresident Tuition Fee
Nonresident students are required by state law to pay tuition in addition to enrollment fees. The tuition fee for nonresident students is $200 per unit up to a maximum of 15 units per semester. There is an additional $42 per unit capital outlay fee for non-residents.

California Nonresident Tuition Exemption For Eligible California High School Graduates
A law was passed by the Legislature in 2001 known as “AB 540.” Any student, other than a non-immigrant alien, who meets all of the following requirements, shall be exempt from paying nonresident tuition at the California Community Colleges, the California State University and the University of California.

Requirements:

- The student must have attended a high school (public or private) in California for three or more years.
- The student must have graduated from a California high school or attained the equivalent prior to the start of the term (for example, passing the GED or California High School Proficiency exam).
- An alien student who is without lawful immigration status must file an affidavit with the college or university stating that he or she has filed an application to legalize his or her immigration status, or will file an application as soon as he or she is eligible to do so.

Students who are nonimmigrant for example, those who hold F (student) visas, B (visitor) visas, etc.] are not eligible for this exemption. The student must file an exemption request including a signed affidavit with the college that indicates the student has met all applicable conditions described above. Student information obtained in this process is strictly confidential unless disclosure is required under law. Students eligible for this exemption who are transferring to another California public college or university must submit a new request (and documentation if required) to each college under consideration. Nonresident students meeting the criteria will be exempted from the payment of nonresident tuition, but they will not be classified as California residents. They continue to be nonresidents. Non-resident students meeting the criteria will be exempt from the payment of non-resident tuition. Students meeting the criteria will be classified as AB540. AB540 students will be considered for state aid through the California Dream Act application but not for federal financial aid. Please contact the Office of Financial Aid for details.

To request this exemption, a student must complete the form in the Office of Admissions and Records in the Administration building, room 7. Students may be required to submit additional documentation. Contact the Office of Admissions and Records in the Administration building, room 7 if you have questions.

Student Health Fee
A $13 student health fee has been authorized by the Board of Trustees for all students during the fall or spring semester. The fee is $10 for summer session. The purpose of the fee is to make health-center services available to all students and to provide greater healthcare educational programming.

The following health fee exemptions are authorized by law:

1. Students who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization.
2. Students who are attending a community college under an approved apprenticeship training program.

Exemption forms are available in the Office of Admissions and Records in the Administration building, room 7.

Student Center Fee
Bakersfield College students shall be assessed a Student Center Fee of $1 per unit for courses on the main campus up to a maximum of $5 per fall semester and $5 per spring semester. The fee shall not be assessed for summer session enrollment.

Student Representation Fee
A student representation fee of $1 is charged to all students. This fee will be used by the Student Government Association for:
• Attendance at conferences and meetings of student non-partisan organizations.
• Organizational dues and/or special donations to statewide student organizations or any other recognized student lobby association that works on behalf of community college students.
• Purchase of equipment used for lobbying and/or advocacy such as computers, printers, faxes, modems, software, and accessories.
• Subscriptions to newsletters and/or magazines of higher education.
• Travel expenses for lobbying and/or advocacy for students.
• Leadership training, awareness, and information.
• Hosting non-partisan conferences of legislative issues.

SGA Discount Card
The SGA discount card, which allows a 5% discount at the Bakersfield College Bookstore, may be purchased for a $15 fee. Contact Student Activities Office at 661/395-4355.

Parking Fees
Parking is restricted to parking permit holders during all twelve months of the year. A semester parking permit is $40 and a summer permit is $25. Parking permits are not required on weekends. Visitor parking and handicapped parking is enforced at all times. To obtain a student permit go to: www.bakersfieldcollege.edu/campus/parking.

Books
It is estimated that the cost of books and supplies will be $650 to $850 per semester for a 15-unit schedule. Books may be purchased or rented at the college bookstore, which is open year-round except during college holidays.

Refunds
Enrollment and Tuition Refunds
Enrollment and tuition fees will be credited to the student account, when applicable, for program changes through the first two weeks of the fall or spring semester only. In courses other than semester length, the Office of Admissions and Records in the Administration building, room 7 should be consulted regarding withdrawal and refund deadlines.

To receive the enrollment or tuition refund, a student must apply for the refund in the Business Services Office before the end of the second consecutive semester of non-attendance. Summer session is not considered a semester. If a student does not apply for a fee refund within this time frame, funds will revert to the Kern Community College District.

Should the college cancel a class in which a student is enrolled and there is a reduction in units which results in a lower fee, the student should request a refund through the Business Services Office.

Student Health Fee Refund
Health fees will be credited to the student account when applicable, if all classes are dropped and an enrollment fee credit is generated by the transaction. To receive the health fee refund, a student must apply for the refund in the Business Services Office before the end of the second consecutive semester of non-attendance. Summer session is not considered a semester.

Attendance Policies

Class Attendance
Regular class attendance is expected of all students enrolled in the college. It is especially important that students attend the first sessions of each class for it is during those classes that instructors may distribute syllabi and course requirements and explain what is expected in terms of attendance. Students enrolled in classes that are full may be dropped by the instructor if they do not attend the first class sessions. Students on a course waitlist should also attend the first class meetings to avoid being dropped.

The attendance policy for each course is established by the instructor and communicated to each class in writing. Attendance policies will be reasonably related to course objectives, the requirements of institutional reporting, and legitimate absences. Instructors are responsible for maintaining accurate attendance and scholarship records.

While it is the responsibility of instructors to communicate attendance policies and to apply them equally to all students, it is the responsibility of students to know the policy in each of their classes and to be aware of their current attendance status. Students who have been absent from a class should notify the instructor of the reason for the absence. Absence in no way relieves students of responsibility for work missed. Excessive absence may result in the student being dropped from the course. After drops of first day absentees and waitlist absentees, instructors may drop a student from a course when absences number the equivalent of two weeks of class recorded from the first day of instruction.

Instructors may give consideration to excusing students from classes to participate in scheduled college activities; e.g. athletics, music, field trips, etc. The student must make arrangements in advance to make up the work to be missed.

Students are responsible for officially withdrawing from any class or classes in which they no longer wish to be enrolled. Non-attendance does not release the student from this responsibility.

First-Day Drop Policy
Because many classes become filled and are closed, students in lecture and/or lab courses may be dropped if they do not attend classes during the first two weeks without notifying the instructor.

Students in open entry courses may be dropped if they do not begin attending during the first week of classes.

Distance Learning Attendance and Non-Participation Policy
All students enrolled in distance learning courses must log in to each course and complete any assignment or other activity to be determined by the instructor; that are required during the first week. Students who fail to complete first week assignments/activities within the instructor’s deadline may be dropped.

After the first week and during the time period before the final withdrawal date, “students are responsible for officially withdrawing from any class or classes in which they no longer wish to be enrolled,” as stated in the Bakersfield College Catalog. (See the catalog section “Withdrawing from Classes” for additional details.)
The Bakersfield College Attendance Policies: Class Attendance states that "instructors may drop a student from a course when absences number the equivalent of two weeks of class recorded from the first day of instruction." In the case of distance learning, "absences" shall be defined as "non-participation." Instructors may drop students after the equivalent of two weeks of non-participation from the first day of class. Non-participation shall be defined as, but not limited to:

- Not following the instructor’s participation guidelines as stated in the syllabus
- Not submitting required assignments
- Not contributing meaningful discussion in required chat rooms, discussion boards, or other online forums
- Not participating in scheduled activities
- Failure to communicate with the instructor as required

It should be noted that simply logging into the course does not constitute participation. Students must demonstrate that they are actively participating in the course by submitting required assignments, contributing to discussion forums, etc. as outlined above.

**Withdrawing from Classes**
Students are responsible for officially withdrawing from any class, classes, or waitlist in which they no longer wish to be enrolled. After registration has been completed, and within the withdrawal date guidelines, students may drop a class or classes through the web registration system. Non-attendance or non-payment does not release the student from this responsibility and may result in a failing grade being awarded.

Within the withdrawal date guidelines, instructors may drop students from a course for nonattendance, disruption, or failure to meet the requirements of the course.

A student who withdraws or is dropped from a semester-length course through the 20 percent date of any term will not have the course included on the permanent record. A ‘W’ will appear on the permanent record for courses dropped between the 20 percent date and the 60 percent date of the term. No ‘W’ grades may be issued after the 60 percent date. In courses other than semester length, the instructor or Office of Admissions and Records in the Administration building, room 7 should be consulted regarding withdrawal date deadlines.

A student may contact the Office of Admissions and Records in the Administration building room 7, regarding the procedure to drop or withdraw after the final withdrawal date deadline if there are verifiable extenuating circumstances. Examples of verifiable extenuating circumstances may be: accidents, illness, death of an immediate family member, or other circumstances beyond the control of the student. This must be done by the last day of classes and prior to the beginning of the final examination period for the term in which the withdrawal will apply. Withdrawal after the end of the 14th week of the semester (or 75% of the semester, whichever is less) when the college has authorized such a withdrawal in extenuating circumstances, after consultation with appropriate faculty, shall be recorded as a ‘W’.

A ‘W’ is not used in calculating grade point averages, but excessive W’s will be used as factors in progress probation and disqualification.

Students who find it necessary to withdraw from the college are required to return all check-out supplies, equipment and library books, and pay all fines and debts owed the college.

**Transcripts**
Upon written application by the student, a transcript of all work completed at Bakersfield College will be prepared and forwarded to any college, university, employer, or individual designated by the student. The first two transcripts are provided free; thereafter, a fee of $4 is charged for each transcript. Transcript requests are submitted to the Office of Admissions and Records in the Administration building, room 7. The form can be downloaded online at www.bakersfieldcollege.edu by clicking Transcripts and following the on-screen directions. Orders are processed within eight working days. An additional fee of $8 is charged for processing a transcript ‘rush’ request within 2 hours. To receive a transcript with same day service, the request must be made before 3 p.m. Monday through Thursday or before 9:30 a.m. on Friday.

Students have the right to notify the college not to include their date of birth in their transcripts. A date of birth is a very useful identifier, and students are encouraged to have it displayed on transcripts. However, under the law, students have a right to request that their date of birth not be displayed on their college transcripts.

**Verification of Enrollment**

**Current Semester**
The Office of Admissions and Records in the Administration building, room 7 will complete a verification of enrollment upon written request by the student. A fee of $2 is charged for each verification. The $2 fee is waived for financial aid academic progress verification.

**Past Semester(s)**
Past semester(s) can be verified by ordering unofficial transcript.

**Student Schedule of Classes**
Individual student class schedules are available on the Bakersfield College website at www.bakersfieldcollege.edu.
Student Services

Advising and Counseling Department
661/395-4421 / 661/720-0000 (Delano)

Program Mission Statement:
Academic Advising and Counseling at Bakersfield College is an ongoing, intentional, educational partnership dedicated to student academic success. The college is committed to an academic advising and counseling system that guides students to:

- Discover and pursue life goals;
- Support diverse and equitable educational experiences;
- Advance students’ intellectual and cultural development; and
- Teach students to become engaged, self-directed learners and competent decision makers.

Comprehensive academic and vocational advising and counseling services are available to all Bakersfield College students in the Advising and Counseling Center, located on the lower floor of the Student Services Building on the Panorama Campus and at the Delano Campus.

Educational advising for:
- Career and Technical majors is available in the FACE 16 (395-4089)
- Allied Health students is available in MS 153 (395-4476)
- Science, Technology, Engineering, and Mathematics majors (STEM) in SE 40 (395-4811)
- Student athletes in GYM 9 (395-4681)
- Veterans in CC (395-4312)

Counselors and advisors are able to provide students with guidance in the following areas:
- Reviewing student assessment (placement) test results and other information to determine appropriate course options;
- Exploring academic and educational goals and identifying possible educational options;
- Developing abbreviated and comprehensive educational plans;
- Explaining certificate programs and degrees available at Bakersfield College;
- Assisting with identification of transfer options and course requirements for University of California (UC), California State University (CSU), independent, and out-of-state institutions, and;
- Providing referral information to other student support service programs on the BC and Delano campuses, as well as to other off-campus resources.

In addition to one-on-one advising and counseling sessions, the center also provides answers to questions, drop-in advising, New Student Counseling workshops, Educational Planning workshops, and transfer-related workshops throughout the academic year. Counseling faculty also teach student development courses for educational planning, career development, and student success. Students will find these courses listed in the online class schedule under “Student Development.”

Other Advising and Counseling functions include:
- Outreach/support to incoming high school students
- Orientations, both face-to-face and online sessions
- International Students Program
- Support for students on probation
- Student Peer Advocate Leaders (PAL)

The Advising and Counseling Center at the main campus is located in the Larry Robinson Counseling Center, on the lower floor of the Student Services (SS) Building. In the Delano Center, Counseling Services are located in Science and Technology and the A&R buildings at the Delano Campus.

Follow Up Support Services
Helping you stay in college is important to us. We realize that there are many reasons why students fall behind in their work, drop classes, and perform lower than the required minimum cumulative grade point average of 2.0. Advisors, counselors, and other support staff will work with students experiencing difficulty. If you fall into academic difficulty and are placed on academic or progress probation or dismissal, counselors can help you create a
personalized student success plan to get back on track. If you are on probation, a hold will be placed on your registration, and you will be required to take an online probation workshop.

Testing and Placement 661/395-4479

The Bakersfield College Assessment Center offers the following tests: AccuPlacer, the College Level Examination Program, the Automotive Excellence Tests, and other testing programs. Students may call the Assessment Center for schedule information.

A student parking permit is required to park in all parking lots. Day permits are available at the dispensers located in all parking lots.

Athletics 661/395-4266

Athletics Educational Advisor 661/395-4681

Since 1922, the Bakersfield College Athletic Department has provided student athletes with opportunities to compete for one of the most storied community college sports programs in the country: The Bakersfield College Renegades.

The Gil Bishop Sports Center, Memorial Stadium, the Dean and Adah Gay Sports Complex, Gerry Collis Field, and the BC Tennis Courts are home to 20 sports teams populated by approximately 500 student athletes per academic year.

Representing Bakersfield College as an intercollegiate competitor is a privilege that comes with great responsibility. Those wishing to participate must be enrolled in at least 12 units per semester (see academic advisor for details) while maintaining a 2.0 grade point average.

Student Athletes also must attend regular practices in season, travel to out of town competitions, and keep themselves in peak physical condition at the direction of award-winning coaches and certified athletic trainers who specialize in injury prevention. These standards have led to 170 conference titles, 13 state championships, and 10 national championships.

Renegade student athletes routinely transfer to four-year NCAA and NAIA schools, and have gone on to professional careers in Major League Baseball, the National Football League, the NBA, and foreign professional leagues, as well as coaching at every level of athletics.

Bakersfield College currently fields Women's teams in basketball, cross-country, golf, soccer, softball, swimming, tennis, track and field, volleyball, and beach volleyball. Men compete in baseball, basketball, cross-country, football, golf, soccer, tennis, track and field, and wrestling.

BC Athletics is governed by the California Community College Athletic Association, and is a member of the Western State Conference, Southern California Football Association, and the Southern California Wrestling Alliance.

For more information, visit gogades.com.

California Work Opportunities and Responsibility to Kids (CalWORKs) 661/395-4351 / 661/395-4047

The CalWORKs Program is a state funded program. CalWORKs is designed for students enrolled at Bakersfield College who receive CalWORKs/TANF and are not sanctioned. The program can assist these parents with work opportunities and other educational expenses related to attendance at Bakersfield College. CalWORKs also provides special services which include academic, career, and personal counseling; workshops for academic success; work study; holiday celebration/spring picnic; awards/recognition ceremonies. The Bakersfield College CalWORKs Program additionally offers confidential liaison and advocacy between students, the college, the Department of Human Services, and other community agencies. For additional information on CalWORKs and eligibility for these services, please contact the CalWORKs Office. Interested students must attend an orientation. The Kern County Department of Human Services is also on campus at least once a week during the semester to assist students. The CalWORKs Office is located on the second floor of the Student Services Building.

Child Development Center 661/395-4368

The Child Development Center and State Preschool provide a comprehensive early care and education program that serves college student families and their preschool age children. Placement in the program follows state guidelines to assign each family a priority rank based on income and family size. First priority enrollment is given to those with documented need for services who are Kern Community College District students working towards a specific profession or career goal. Our services support and assist student families to successfully complete their college courses and achieve their goals. In addition, the Child Development Center provides demonstration/observation laboratory classrooms for college students majoring in child development, health careers, and other helping professions. Student interns can gain hands-on experience in best practices classrooms working with children under the supervision and direction of our licensed teachers.

The center is primarily funded through the California State Department of Education and is licensed through the California Department of Social Services. All teachers have professional training in child development/early childhood education and are certificated through the California Commission on Teacher Credentialing.

The Child Development Center also has a State Preschool Program on campus offering two part day sessions available to the community. The morning session is 8:30-11:30, and the afternoon session is 12:30-3:30. Both sessions are held Monday through Friday. Lunch is provided for both sessions. Children must be 3-5 years of age and meet state income guidelines.

Applications can be found at www.bakersfieldcollege.edu/student/cdc. Click on Apply Now! Follow the instructions to drop off or mail in the completed application. Applications are also available at the Child Development Center Monday-Friday 7:30 a.m. - 5 p.m.

Computers for Student Use 661/395-4696

Use of the instructional computers by students at Bakersfield College is encouraged. Access to academic computing services is a privilege enjoyed by all students. The Computer Commons, located...
Students must complete the Free Application for Federal Student

Program's primary goal is to encourage the enrollment, retention, transfer assistance, books, and other support services. The EOP&S Program is a state funded program serving students

Disabled Student Programs & Services

Disabled Student Programs & Services assists the college in providing equal access to educational opportunities for students with disabilities. Disabled Student Programs & Services provides reasonable accommodations to students with documented physical, communication, psychological, developmental, and learning disabilities who are enrolled in classes through Bakersfield College. The department provides accommodations and support services which may include, liaison with California State Department of Rehabilitation and other community resources, test taking assistance, special equipment, mobility assistance, note taking, assistive computer technology, special classes, sign language interpreters, written materials in alternate format, and learning disability assessment. These services are intended to prepare and support students to participate on an equal basis with their non-disabled peers. For college material in alternate format, contact Disabled Student Programs & Services.

ESL Tutoring 661/395-4570

The ESL Tutoring Program provides tutoring sessions for both international/foreign students and students whose first language is not English. Students benefit from this service by improving their language and reading skills and therefore their successful completion of course work in language skills.

Extended Opportunity Programs and Services (EOP&S) and Cooperative Agencies Resources for Education (CARE) 661/395-4351

The EOP&S Program is a state funded program serving students from low-income and educationally disadvantaged backgrounds. Services include academic, career, and personal counseling, peer mentoring, financial aid advising, scholarship information, transfer assistance, books, and other support services. The EOP&S Program's primary goal is to encourage the enrollment, retention, and transfer of students with educational disadvantages to facilitate the successful completion of their goals and objectives in college. Students must complete the Free Application for Federal Student Aid (FAFSA) to determine eligibility and be enrolled in full-time coursework (12 units).

The CARE component offers additional grants and/or services to full-time students who are single parents, TANF recipients, and have at least one child under the age of 14. CARE participants must qualify for financial aid. Services offered include peer mentoring, counseling, tutoring referrals, single-parent workshops, follow-up support, and special events.

For additional information on EOP&S/CARE and eligibility to receive these services, please contact the Office of EOP&S/CARE. The Office of EOP&S/CARE is located on the second floor of the Student Services Building. EOP&S services are also offered at the Delano Campus.

To apply, print the EOP&S application found at www.bakersfieldcollege.edu/student/eops and submit to the Office of EOP&S.

Financial Aid

Panorama Campus 661/395-4428

Delano Campus 661/725-2011

Students seeking financial assistance to meet the costs of education are encouraged to contact the Office of Financial Aid, located in the Student Services Building (SS 150). A variety of grants, scholarships, and part-time employment opportunities are available for students who qualify on the basis of financial need, enrollment in six or more units leading to a degree or certificate, and satisfactory academic progress.

All students are encouraged to complete the Free Application for Federal Student Aid at www.fafsa.ed.gov or a California Dream Application at https://dream.csac.ca.gov/ to be considered for the following programs. The financial aid priority filing date is March 2.

Board of Governors Waiver

The Board of Governors Waiver is supported by the state of California and waives the enrollment fees for eligible California residents. The Board of Governors Waiver is available for students who have already qualified for other types of financial aid and for students who have exceptionally low income including recipients of TANF, SSI, or General Assistance.

Fall 2016 BOG Fee Waiver Changes

Once you’ve qualified for the BOG Fee Waiver, it is important to ensure that you are meeting the academic and progress standards in order to avoid losing the fee waiver

• Academic – Sustain a GPA of 2.0 or higher
If your cumulative GPA falls below 2.0 for two (2) consecutive primary terms you may lose your fee waiver eligibility

• Progress – Complete more than 50% of your coursework
If the cumulative number of courses you successfully complete falls below 50% in two (2) consecutive primary terms you may lose your fee waiver eligibility.

• Combination of Academic and Progress Standards
Any combination of two consecutive terms of cumulative GPA below 2.0 and/or cumulative course completion less than 50% may result in loss of fee waiver eligibility.

in the Library, is an open lab. Student workers are available to assist students in the use of these computers.

Unauthorized access or use of academic computing facilities is a violation of Section 502.b-c of the California Penal Code. Offenders will be disciplined and/or prosecuted in accordance with existing college policy and California law. For details of campus computer policies, see the student handbook, which is available from the Student Government Association in Campus Center, room 4.

Career Center

The Career Center is located in the Larry Robinson Counseling Center. The virtual Career Center website can be found at www.bakersfieldcollege.edu/career-center. The Bakersfield College Career Center provides resources assist students in making career choices that match their interests and natural talents. Resources include self-assessments and career information. The center is designed to meet the needs of all students in the career development process.

Disabled Student Programs & Services

Panorama Campus 661/395-4334

Delano Campus 661/720-2000

Disabled Student Programs & Services assists the college in providing equal access to educational opportunities for students with disabilities. Disabled Student Programs & Services provides reasonable accommodations to students with documented physical, communication, psychological, developmental, and learning disabilities who are enrolled in classes through Bakersfield College.

The department provides accommodations and support services which may include, liaison with California State Department of Rehabilitation and other community resources, test taking assistance, special equipment, mobility assistance, note taking, assistive computer technology, special classes, sign language interpreters, written materials in alternate format, and learning disability assessment. These services are intended to prepare and support students to participate on an equal basis with their non-disabled peers. For college material in alternate format, contact Disabled Student Programs & Services.

ESL Tutoring 661/395-4570

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Extended Opportunity Programs and Services (EOP&S) and Cooperative Agencies Resources for Education (CARE) 661/395-4351

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The CARE component offers additional grants and/or services to full-time students who are single parents, TANF recipients, and have at least one child under the age of 14. CARE participants must qualify for financial aid. Services offered include peer mentoring, counseling, tutoring referrals, single-parent workshops, follow-up support, and special events.

For additional information on EOP&S/CARE and eligibility to receive these services, please contact the Office of EOP&S/CARE. The Office of EOP&S/CARE is located on the second floor of the Student Services Building. EOP&S services are also offered at the Delano Campus.

To apply, print the EOP&S application found at www.bakersfieldcollege.edu/student/eops and submit to the Office of EOP&S.

Financial Aid

Panorama Campus 661/395-4428

Delano Campus 661/725-2011

Students seeking financial assistance to meet the costs of education are encouraged to contact the Office of Financial Aid, located in the Student Services Building (SS 150). A variety of grants, scholarships, and part-time employment opportunities are available for students who qualify on the basis of financial need, enrollment in six or more units leading to a degree or certificate, and satisfactory academic progress.

All students are encouraged to complete the Free Application for Federal Student Aid at www.fafsa.ed.gov or a California Dream Application at https://dream.csac.ca.gov/ to be considered for the following programs. The financial aid priority filing date is March 2.

Board of Governors Waiver

The Board of Governors Waiver is supported by the state of California and waives the enrollment fees for eligible California residents. The Board of Governors Waiver is available for students who have already qualified for other types of financial aid and for students who have exceptionally low income including recipients of TANF, SSI, or General Assistance.

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in the Library, is an open lab. Student workers are available to assist students in the use of these computers.
You will be notified within 30 days of the end of each term if you are being placed on either Academic (GPA) and/or Progress (Course Completion) probation. Your notification will include the information that a second term of probation will result in loss of fee waiver eligibility. After the second consecutive term of probation, you may lose eligibility for the fee waiver at your next registration opportunity.

There will be an appeal process available beginning Fall 2016. If you have further questions, please contact the Admissions and Records Office for clarification.

**Book Vouchers**
Book vouchers are available for Pell Grant-eligible students to purchase books and supplies.

**Cal Grant B**
Cal Grant B is for students from disadvantaged and low income families.

**Cal Grant C**
Cal Grant C is for students enrolled in a vocational program.

**CashCourse**
A personal online financial tool to assist students with building essential financial skills. CashCourse promotes positive money management skills to students and recent graduates. To access CashCourse visit: http://www.cashcourse.org/

**Extended Opportunity Program and Services (EOP&S)**
Extended Opportunity Program and Services is a state-funded program offering access and retention services, including books, for low-income, educationally disadvantaged students.

**Cooperative Agencies Resources for Education (CARE)**
Cooperative Agencies Resources for Education is a state-funded program offering supportive services and financial assistance for low-income, single parent EOP&S students.

**Federal Pell Grant**
Federal Pell Grants are a grant program based upon need, cost of attendance, and level of enrollment.

**Federal Supplemental Educational Opportunity Grant**
Federal program that provides additional grant assistance for students with exceptional financial need.

**Federal Work Study**
On campus employment is available through Federal Work Study, a federally funded program for students who can demonstrate financial need and enrollment in six or more units. Employment is used to fund college expenses.

**Full Time Student Success Grant**
FTSSG is a new financial aid program for Cal Grant B recipients attending A California community college full-time.

**Satisfactory Academic Progress**
To be eligible to receive federal and state aid, you must be maintaining progress toward a degree, certificate or transfer.

Maintaining SAP means that you must: 1) complete at least 67% of the units you attempt (pace calculation); 2) maintain a cumulative institutional GPA of 2.0 or higher; and 3) complete your educational program within the Maximum Timeframe allowed.

**Scholarships**
Cash awards provided by the Bakersfield College Foundation and local groups and organizations for students who can demonstrate academic merit and/or financial need.

Information concerning financial aid programs at Bakersfield College can be obtained by personal contact, by phone, or at www.bakersfieldcollege.edu/finaid. After you have applied for financial aid, you may check your financial aid status by logging in to InsideBC at inside.bakersfieldcollege.edu.

**Student Health and Wellness Program 661/395-4336**
The Student Health and Wellness Program is located in the Campus Center. To schedule appointments for any services, come to the clinic. Walk-ins are also welcome.

**Medical Services**
The Student Health and Wellness Program Center provides diagnosis and treatment of a wide variety of general medical conditions. The services meet many student healthcare needs, including acute conditions such as fevers, respiratory illnesses, stomach pains, sprains and strains, skin rashes, and minor surgical procedures. The Center also treats and manages patients with chronic conditions such as asthma, diabetes, and other diseases. Physicals, TB testing, and some vaccines are available free of charge. Students can access medical services free five times per semester. Student health insurance coverage is available for campus-related injuries.

Health-related literature and a variety of over-the-counter medications are available free of charge.

**Mental Health Services**
The Student Health and Wellness Center offers services to address students’ mental health concerns. Students are eligible to receive six free one-hour short term counseling (talk therapy) sessions per semester. Group therapy self-improvement classes are also available.

**Mentoring and Peer Program Services (MAPS)**
The Student Health and Wellness Program utilizes the expertise of students who are trained to provide educational programs and outreach. The peer education program known as MAPS is made up of students who serve as resources, referral agents, and role models for other students.

**Clinica Sierra Vista-Delano Campus**

**Mental Health 661/720-2003**

**Medical 661/725-4780**

Students at the Delano Campus receive free medical and mental health services from Clinica Sierra Vista. Delano Campus students can access MAPS services, free over-the-counter medication, and health-related literacy in the Delano Science and Technology Building. Student health insurance coverage is available for campus-related injuries.
Job Placement Services 661/395-4550
The Job Placement Center assists students and alumni in finding both part and full-time jobs. The center offers various workshops and assistance with job search strategies, resume writing, interview skills, labor market information, job coaching, and skills identification. The College Central Network website is the central location for both on and off-campus job postings. The website also provides information about Bakersfield College career events, workshops, hot job e-mails, and access to community employers. Visit the Job Placement website at www.collegecentral.com/bakersfieldcollege. Job Placement Center services are free to students and Bakersfield College alumni.

Learning Center 661/395-4433
The Jerry Ludeke Learning Center, on the second and mezzanine floors at the west end of the Student Services Building, is comprised of various learning opportunities and well-trained instructors and tutors. The center offers tutorial services, reading and writing classes, learning and study skills courses, open-entry math courses, a writing center, and a basic skills computer lab. For students who wish to improve their memory, note taking or test taking skills, the Learning Center has short-term courses in these and other study skills subject areas.

Individuals who want to study mathematics may enroll in a hybrid math course in the Learning Center. Courses are taught using a combination of the Internet-based program ALEKS and one-on-one help from instructors in the Math Lab in the Learning Center. Courses are available in Modern College Arithmetic/Prealgebra (MATH B50), Elementary Algebra (MATH B60), and Intermediate Algebra (MATH B70). Students work at their own pace and have the opportunity to complete more than one course in a semester. More information is available on the Learning Center website, www.bakersfieldcollege.edu/acdv/learning-center.

Writing Center 661/395-4735
Students needing help with writing assignments may visit the Writing Center. The Writing Center offers guidance in every stage of the writing process, from generation of essay ideas, through development and organization, to citation of sources. Consultants at the Writing Center can help students take charge of their own writing process and learn new techniques to become more successful writers of college essays. The Writing Center also offers access to computers so students may work on assignments at their own pace. The center takes appointments, but consultants can also assist walk-in students on a first-come, first-serve basis. For a successful 30 minute consultation, students are encouraged to bring assignment sheets, hard-copy notes and drafts, and any other needed material, and should be prepared to discuss assignments with consultant. ESL consultants are also available. More information is available on the Writing Center website, bakersfieldcollege.edu/writingcenter.weebly.com.

Library 661/395-4461
The Grace Van Dyke Bird Library provides access to information in a variety of ways and formats. In addition to the over 89,000 books in the collection, the library subscribes to 140 periodicals and six online full-text periodical and newspaper indexes. The library is fully automated, with access to the catalog and periodical indexes on campus and via the Internet. Reference librarians are available during library hours to assist with research needs.

Other services available to all library users include:
- Library Research workshops
- Individual research consultations
- Study rooms for group work
- Photocopying & computer printing
- Wireless internet and computer access via computers in Computer Commons
- Telephone reference service

Use your current Gades Card for library circulation privileges. Community members may also have circulation privileges with a payment of an annual fee. Inquire at the circulation desk for details.

Mathematics, Engineering, & Science Achievement (MESA) 661/395-4776
Bakersfield College’s Mathematics, Engineering, & Science Achievement (MESA) program center, located in the Science and Engineering Building, Room 46, is dedicated to serve underrepresented students in the fields of mathematics, engineering, and the sciences and who plan to transfer to a four-year institution to complete a baccalaureate degree. MESA requires participation in at least nine orientation workshops for one semester. In addition, the program requires student involvement in one of the following activities per semester: academic excellence workshop; orientation workshops; professional, career development seminars or capstone projects. These workshops and activities provide students with critical practice in problem solving techniques as well as exposure to career development in mathematics and science based fields.

MESA offers students book vouchers, scholarships, stipends, free tutoring, field trips to four-year colleges and industries related to students’ fields of study, industry internships, and an environment for studying and networking.

Office of Outreach and School Relations 661/395-4276
The Office of Outreach and School Relations’ primary focus is to facilitate the entry and transition of prospective students into the Bakersfield College community by providing services, resources, and support to enhance academic development and success.

Staff is available to provide general information about the campus, answer questions related to the application process, and to inform students about the many opportunities available at the college. Visit our office and take a tour of the campus.

Office of Equity and Inclusion 661/395-4665
The Office of Equity and Inclusion supports the mission of Bakersfield College and ensures that our college community supports a culture of excellence and promotes scholarly discussions where a diversity of talents, abilities, cultures, and philosophies are celebrated and acknowledged. We value, honor, respect, and seek to celebrate our campus diversity. We do this by ensuring that all campus programs, organizations, services, and initiatives collaborate and address and support effectively the educational pathway of our students to persist in college toward graduation and/or transfer.
We believe that all who work at Bakersfield College contribute to the learning and study environment of our students and are committed to the shared goal of creating a quality experience for every student. Our office philosophy and staff supports the principles and practices of student equity, academic excellence, diversity, and inclusion. Through a social justice and multicultural approach we promote a standard of excellence for all students. We support maximizing initiatives that promote student access, engagement, follow-up, and achievement. To this end, we are a student-centered office, helping students maneuver educational pathways to complete more classes, persist, graduate, and/or transfer quickly without disruption. We hope to equalize student success across the campus for all students. We are about building strong leaders through integrated campus and community partnerships. We collaborate with campus departments, programs, services, and initiatives to support student success.

Office of Student Life 661/395-4614
The Office of Student Life works collaboratively with the Bakersfield College Student Government Association (BCSGA) and the Office of the Vice President for Student Affairs to engage, educate, and empower students to take action in the best interest of the student body and the college community. The Office of Student Life provides leadership, and service opportunities outside the classroom. Research indicates that engagement theory suggests that students involved in any activity on campus or outside of the classroom are more likely to persist and graduate. The Office of Student Life provides participating students the opportunities to develop and hone their leadership skills, ultimately supporting student learning by providing a plethora of programs in which students can be engaged.

The Office of Student Life nurtures a culture that fosters learning outside of the academic classroom by creating an educational environment that connects the campus community to the importance of processes that lead to student self-governance. The Office of Student Life fosters the development of students’ civic responsibility, community engagement, leadership, and personal growth. The meaningful interactions are the root for our student advocacy that contributes to effective pathways via the leadership and service opportunities provided.

The Office of Student Life provides advising to BCSGA’s appointed and elected officers, all student organizations, and its entities. Additionally, the Office of Student Life provides learning opportunities for students to enhance their overall educational experience through involvement with the programs and services funded by BCSGA, the college, and the community. The Office of Student Life makes a concerted effort to recruit, educate, inform, and retain students through student organizations, the student government, and the assorted student activities and workshops hosted. To that end, the Office of Student Life supports student organization development whose focus is to build community through groups focused on academics, culture, campus life, specific-interests, community service, and social bonding.

The Office of Student Life recognizes that its mission, in cooperation with the learning mission of the College, is accomplished through cultivating a personal standard of ethics and values while providing opportunities that enhance a sense of community between students, the campus, and the local community. Therefore, the Office of Student Life supports Bakersfield College’s mission and core values by contributing to student access, and fostering students’ abilities to think critically, communicate effectively, and demonstrate competencies and skills.

For more information, visit www.bakersfieldcollege.edu/osl.

Bakersfield College Student Government Association 661/395-4614
Bakersfield College Student Government Association (BCSGA) is the student government at Bakersfield College that voices student concerns. BCSGA presents student opinions, needs, and concerns to such groups as the College Council, the State Student California Community College (SSCCC), and many campus-wide and district-wide committees. BCSGA also allocates Campus Center fees to programs and services that directly benefit students in the Campus Center. Students are urged to become familiar with the Student Government constitution and to become involved with your Student Government. Regular meetings are held on alternating weeks and are open to the public. Meeting times are posted in the Office of Student Life, Campus Center Room 4.

The legislative authority of BCSGA is contained within the Executive Board and Student Senate. The Executive Board members and student Senators are elected by the students each spring semester. All official actions undertaken by the BCSGA stem from the decisions of the Executive Board and Student Senate.

For more information, visit www.bakersfieldcollege.edu/bscga.

Student Conduct 661/395-4614
The Board of Trustees of the Kern Community College District, in support of public education and the exercise of general supervision of the campuses of the district, believes that student conduct must reflect the standards of good behavior expected by society. Since public education is furnished by the people of the district, it becomes a privilege for students to have this opportunity to further their education.

When working with student complaints, sexual harassment complaints, discrimination complaints, students with reported behaviors, academic integrity issues, or reported students of concern, the Office of Student Life at Bakersfield College reviews, investigates, and works with each student case carefully while integrating several student development theories that model after the restorative justice practices. The fundamental premise of restorative justice practices is to engage with the student to lead to a helpful outlook, more cooperative and productive interactions, and more likely to make positive changes when the Office of Student Life and the Bakersfield community interact with them. Restorative justice has a greater impact on student learning and success than the typical punitive models. Taking a restorative justice approach requires a philosophical shift and a personable professional to interact with the students, parents, faculty, and the community to repair the balance back into the students’ life, rather than simply following protocol and penalizing.

Students are expected to observe a proper standard of conduct, showing such respect for order, morality, personal honor, and the rights of others as demanded of good citizens. Failure to do so will be sufficient cause for disciplinary action.

For more information, visit www.bakersfieldcollege.edu/studentconduct.

For more information, visit www.bakersfieldcollege.edu/osl.
The Student Code of Conduct and the Student Conduct Policy are available in the Office of Student Life, Campus Center 4, or online at www.bakersfieldcollege.edu/campus/student-conduct.

Transfer Center 661/395-4881
The Transfer Center offers resources and services to all students. The center facilitates the transition of students from Bakersfield College to a baccalaureate college or university. The center helps reduce the complexity of transferring by helping students through the articulation and transfer agreement process, major planning and preparation, and application/personal statement workshops.

Bakersfield College has guaranteed transfer admission agreements with University of California, Davis; University of California, Irvine; University of California, Merced; University of California, Riverside; University of California, Santa Barbara; and University of California, Santa Cruz. Admission advisors from California State University, Bakersfield are housed in the Bakersfield College Advising and Counseling Center and regularly work with students to ease the transition between Bakersfield College and California State University, Bakersfield. Other college representatives visit campus periodically; a current schedule can be found on the Transfer portal at inside.bakersfieldcollege.edu.

Transfer workshops are offered throughout the year. The Transfer Center maintains current catalog information for California public and private schools. Computers with access to online resources such as www.assist.org to help students with choosing major preparation, and private schools. Computers with access to online resources such as www.assist.org to help students with choosing major preparation, transfer workshops are offered throughout the year. The Transfer Center maintains current catalog information for California public and private schools.

WorkAbility III 661/395-4070
In cooperation with the State Department of Rehabilitation (DOR), Bakersfield College provides job placement for students with disabilities through the WorkAbility III program. A disability may include physical, communication, learning, or emotional disability. Assistance with part-time jobs, full-time jobs, internships, and work experience placement is provided by WorkAbility III. WorkAbility III also offers job search skills training, including resume writing and interviewing skills. These services are provided to Bakersfield College students who are also clients of DOR. In addition, DOR may provide financial aid, which may cover the cost of fees, books, and other services.

If a student with a disability believes he/she may qualify for services from DOR, the student can visit the DOR office at 1405 Commercial Way, Suite 120, Bakersfield, or call 661/395-2525. Eligible students are urged to apply for services from Disabled Student Programs and Services at the beginning of the semester.

Veterans Services 661/395-4414
Veteran Certifying Official 661/395-4414
Educational Advisor – Veterans 661/395-4312
Bakersfield College is approved as an institution of higher learning for the training of veterans and veterans’ dependents entitled to educational assistance.

Educational Benefits for Veterans and Dependents
To be eligible for veterans benefits the veteran must have an educational objective for an associate or baccalaureate degree or a certificate of achievement. The Veterans Administration will not pay benefits for courses that do not fit in a veteran’s selected program. The following students may be eligible for veteran’s educational benefits:

1. Veterans who were separated from active duty with the armed forces within the past 10 years who participated in the following programs:
   a. Montgomery GI Bill-Active Duty Educational Assistance program (Chapter 30).
   b. The Post - 9/11 Veterans Educational Assistance Act of 2008 (Chapter 33).
   c. Montgomery GI Bill - Selected Reserve Educational Assistance Program (Chapter 1606).
   d. Vocational Rehabilitation (Chapter 31) - Veterans who served in the Armed Forces are eligible for vocational rehabilitation if they suffered a service-connected disability while on active service. A veteran who plans to enter Bakersfield College under Chapter 31 is required to have the Veterans Administration approve his/her occupational choice prior to enrollment in college.

2. Spouses and/or children may be eligible for:
   a. The Dependent’s Educational Assistance Program (Chapter 35). A student must be the child or spouse of a veteran who is deceased or who has a service-connected disability rated at 100 percent.
   b. Chapter 33 benefits if the veteran elects to transfer benefits.

California Department of Veteran Affairs, College Fee Waiver
Dependents of veterans with disabilities (spouses and/or children) may be eligible to receive tuition-free assistance at any California post-secondary educational institution. This program is California Department of Veteran Affairs, College Fee Waiver Program For Veterans Dependents. More information can be found at: www.calvet.ca.gov/VetServices/Pages/College-Fee-Waiver.aspx.

Veteran students using their benefits for the first time
Students who believe they are eligible for veterans or veterans’ dependents educational benefits must apply for benefits with the Veteran Administration (VA). Veterans apply by completing VA Form 22-1990 and veterans’ dependents by completing VA Form 22- 5490. An application and further information may be obtained online from the VA website: www.gibill.va.gov via the Veterans Online Application (VONAPP).

Veteran students who have used their VA Benefits in the past
The VA will not reimburse students for courses that are not necessary for the completion of the student’s educational objective. Any student who has received veterans’ educational benefits while attending another college should complete VA Form 22-1995 (veterans) or VA Form 22-5495 (veterans’ dependents) to request a change of program or place of training. This form is available online from the VA website: www.gibill.va.gov.

In order to remain eligible, students receiving benefits must comply with the college’s veteran standards of attendance and academic progress policy. A student who fails to maintain the school’s academic standards of progress and is suspended or dismissed from
school must be terminated from receiving further VA benefits for unsatisfactory attendance, conduct, or progress.

**All Veteran Students Must Bring In The Following Documents**
- DD-214 – Member, Page 4
- Copy of 22-1990 (Application for Veteran Benefits) or Copy of 22-5495 (Dependent Application for Veteran Benefits)
- Certificate of Eligibility – This is mailed to Veteran students once they complete the 22-1990 or 22-5490 application
- NOBE – 2384 (Notice of Basic Eligibility) **For Reserve Students Only**
- Comprehensive Educational Plan – Make an appointment with Veteran Educational Advisor to complete this form
- Enrollment Card – This card is used to inform the VA how many units the Veteran student is enrolled in and for which semester. The Enrollment Card MUST be completed each semester.

**Priority Registration**
Priority Registration is available for Veteran students. In order to receive priority registration a student must self-identify as a Veteran by:

1. Providing a copy of their DD-214 Member Page 4, to Admissions Window 6 and using their Educational benefits
   OR
2. Be a dependent of a Veteran who is using Veteran Educational Benefits: Chapter 35 or Post 911 that was allocated from the Veteran to his/her dependent.

Veteran students who do not want to use their Educational benefits at Bakersfield College but still wants to receive Priority Registration must turn in a copy of their DD-214 Member Page 4 to Admissions, Window 6 and indicate that they only want Priority Registration.

Students who are using the California Department of Veteran Affairs, College Fee Waiver do not qualify for Veteran priority registration.

**Veteran Status and Priority for the Allied Health and Nursing Program is as follows**
A ‘covered person’ is entitled to priority of service under all WIA Title I funding programs e.g. adult, youth, dislocated workers, 10% funded projects, and National Emergency Grant (NEG). For purposes of this policy, the term ‘veterans priority of service’ means that a covered person shall be given priority over non-veterans for the receipt of employment, training, and placement services provided under that program, notwithstanding any other provision of law.

A ‘covered person’ is one of the following:
1. A Veteran who is an individual who served in the active military, naval, or air service, and who was discharged or released from such service under conditions other than dishonorable (WIA definition); or
2. A recently separated Veteran who applies for participation under this title within 48 months after the discharge or release from active military, naval, or air service (WIA definition);

The Spouse of:
1. A Veteran who died of a service connected disability;
2. A member on active duty who (at time of spouse’s application) is listed as missing in action, captured in the line of duty, or forcibly detained; or

3. A Veteran with a total disability from a service connected disability or one who died while being evaluated for it.

Additional information may be obtained at Window 6 in the Office of Admissions and Records in the Administration building or at the Veterans Lounge.
Academic Information

Academic Credit
Coursework is measured in terms of semester units. A unit equals 18 hours of lecture or 54 hours of lab work per semester in most courses. Lecture courses require additional outside of class work to equal a minimum of 48 hours of student work.

Academic Freedom
The district, the colleges, and unit members will adhere to the following in regard to academic freedom:

1. Education in a democracy depends upon earnest and unceasing pursuit of truth and upon free and unrestricted communication of truth.
2. Faculty members shall be free to exercise academic freedom, including freedom of investigation, freedom of discussion in the classroom, freedom to select texts and other instructional materials, freedom of assignment of instructional exercises, and freedom of evaluation of student efforts.
3. Faculty members acknowledge that in the exercise of academic freedom they have a responsibility to be accurate and comprehensive in making reports, to be fair-minded in making interpretations and judgements, to respect the freedoms of other persons, to exclude irrelevant matters from classroom discussions and instructional exercises, and to make appropriate distinctions between statements of fact made as faculty subject matter specialists and opinions made as private citizens.
4. The college recognizes the fundamental right of the faculty member to be free from any censorship or restraint which might interfere with the faculty member’s obligation to pursue truth and maintain his/her intellectual integrity in the performance of his/her teaching functions.

Academic Honesty
The administration, faculty, and staff at Bakersfield College believe that students are entitled to the finest education that the college can make available to them. At the same time, however, a student’s achievement and proficiency in subject matter must include the realization that there are standards of academic honesty which should prevail in all endeavors.

Accordingly, this realization further requires that each student exerts every effort to maintain these standards.

Plagiarism and Cheating
Source: Regulations at California State University, Long Beach, General Catalog, 2011-12.

Definition of Plagiarism
Plagiarism is defined as the act of using the ideas or work of another person or persons as if they were one’s own, without giving credit to the source. Such an act is not plagiarism if it is ascertained that the ideas were arrived at through independent reasoning or logic or where the thought or idea is common knowledge.

Acknowledgment of an original author or source must be made through appropriate references, i.e., quotation marks, footnotes, or commentary. Examples of plagiarism include, but are not limited to, the following: the submission of a work, whether in part or in whole, completed by another, failure to give credit for ideas, statements, facts, or conclusions which rightfully belong to another; in written work, failure to use quotation marks when quoting directly from another, whether it be a paragraph, a sentence, or even part thereof; close and lengthy paraphrasing of another’s writing or programming. A student who is in doubt about the extent of acceptable paraphrasing should consult the instructor.

Students are cautioned that, in conducting their research, they should prepare their notes by (a) either quoting material exactly (using quotation marks) at the time they take notes from a source; or (b) departing completely from the language used in the source, putting the material into their own words. In this way, when the material is used in the paper or project, the student can avoid plagiarism resulting from verbatim use of notes. Both quoted and paraphrased materials must be given proper citations.

Definition of Cheating
Cheating is defined as the act of obtaining or attempting to obtain aid of another to obtain academic credit for work by the use of any dishonest, deceptive or fraudulent means. Examples of cheating during an examination include, but are not limited to, the following: copying, either in part or in whole, from another’s test or examination; discussion of answers or ideas relating to the answers on an examination or test unless such discussion is specifically authorized by the instructor; giving or receiving copies of an examination without the permission of the instructor; using or displaying notes, cheat sheets, or other information or devices inappropriate to the prescribed test conditions, as when a test of competence includes a test of unassisted recall of information, skill, or procedure; allowing someone other than the officially enrolled student to represent the same. Also included are plagiarisms as defined and altering or interfering with the grading procedures.

It is often appropriate for students to study together or to work in teams on projects. However, such students should be careful to avoid the use of unauthorized assistance, and to avoid any implication of cheating, by such means as sitting apart from one another in examinations, presenting the work in a manner which clearly indicates the effort of each individual, or such other method as is appropriate to the particular course.

Every instructor has the responsibility and authority for dealing with such instances of cheating and plagiarism as may occur in class. An instructor who determines that a student has cheated or plagiarized has a range of many available options which may be as severe as giving a student a failing grade for the course, if the assignment or test for which the student cheated or plagiarized is of sufficient weight to merit a failing grade for the course. The student may face a range of sanctions as stated in the college’s Student Conduct Policy. Finally, it must be understood that a student who knowingly aids another student’s cheating or plagiarism e.g., permitting the other student to copy a paper or examination question, is as guilty as the offender.

A student charged with cheating or plagiarism is entitled to appeal that charge by means of the college’s Student Conduct Policies and Procedures.

**Academic Standing**
A student whose last completed semester GPA and cumulative GPA are 2.0 or higher and whose accumulated units of ‘W’ (Withdrawal), ‘NP’ (No Pass), and/or I (Incomplete) do not reach or exceed 50 percent shall be in good standing.

**Academic Probation**
Students who have attempted 12 or more semester units and who then earns a cumulative GPA of less than 2.0 during the Fall, Spring, or Summer semester shall be placed on Academic Probation for the following semester and will not be able to register until an Academic Success Probation Workshop is completed (a hold will be placed on their registration). A student shall be removed from probationary status when the cumulative GPA reaches 2.0 or higher.

In addition, students on academic probation will be limited in the number of units for which they may register. The academic status of each student is available under Academic Standing in the Registration Status section, on the online transcript in BanWeb, or printed on the student transcript updated at the conclusion of each semester.

**Progress Probation**
Student who have attempted 12 or more units shall be placed on Progress Probation when the percentage of all units attempted for which entries of 'W' (Withdrawal), 'NP' (No Pass), and/or I (Incomplete) reaches or exceeds 50%. Students will be unable to register for classes for the next semester until an Academic Success Probation Workshop is completed (a hold will be placed on their registration). Students shall be removed from probationary status when the percentage of all units a student has attempted with entries of 'W', 'NP', and/or I are recorded is below 50 percent.

In addition, students on progress probation will be limited in the number of units for which they may register. The academic status of each student is available under Academic Standing in the Registration Status section, on the online transcript in BanWeb, or printed on the student transcript updated at the conclusion of each semester.

**Subject to Disqualification**
Any student who has been placed on Academic and/or Progress Probation for three consecutive semesters of enrollment shall be disqualified for admissions to classes the following semester unless, during the last semester of enrollment, the student earned a GPA of 2.0 or higher or did not receive additional Ws, Is, or NPs, in which case the student shall be placed on Continued Probation.

**Counseling for Probationary Students**
Each student who is on probation and/or subject to disqualification should attend a face-to-face or online Academic Success Probation Workshop each semester under that status. These workshops are designed to assist students with understanding the reasons for their poor performance and help them to take steps to succeed. Contact the Counseling Department, 661/395-4421, or access the Counseling Department website at www.bakersfieldcollege.edu/counseling for more information.

**Reinstatement**
A student who is disqualified is ineligible to attend Bakersfield College and may be conditionally readmitted the following semester upon petition to the Counseling Department. A readmitted student will be limited in the number of units in which he/she can register. Students must make a counseling appointment to fill out a Reinstatement Petition and make a plan for future success. Contact the Counseling Department at 661/395-4421.

**Academic Renewal**
Previously recorded substandard academic performance may be disregarded if it is not reflective of a student's demonstrated ability. The District Chancellor shall establish procedures that provide for academic renewal.

At least two years have elapsed since the coursework to be alleviated was recorded; at least eighteen (18) units of satisfactory coursework with a GPA of 2.5 have been completed subsequent to the coursework to be alleviated; and the student would initiate the request for academic renewal. This written petition will go to the Vice President or designee.
**Associate Degrees for Transfer**

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

To view the most current list of Bakersfield College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to A Degree with a Guarantee’s website at www.adegreewithaguarantee.com. Current and prospective community college students are encouraged to meet with an advisor or counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

**Catalog Rights / Continuous Enrollment**

Bakersfield College students have the right to elect to meet the graduation requirements in effect during the academic year of first enrollment or at the time of graduation. To maintain catalog rights to graduation requirements, a student must remain in continuous enrollment at Bakersfield College. This means the student must earn a grade of ‘A’, ‘B’, ‘C’, ‘D’, ‘F’, ‘NP’, ‘P’, ‘I’, ‘IP’, ‘RD’, or ‘W’ in at least one course each academic year. For the purposes of continuous enrollment, an academic year begins with the summer semester and includes the following fall and spring terms. Petitions for exceptions should be directed to the Executive Vice President, Academic Affairs.

Catalog rights apply only to Bakersfield College graduation and program requirements. If other institutions change their requirements for entrance, graduation, satisfaction of general education patterns, or in other ways, it may be necessary for the student to meet the new requirements upon transfer, even if continuous enrollment has been maintained.

**Credits Allowed from Other Institutions**

Students who wish to receive Bakersfield College credits for work completed at other colleges should have official copies of transcripts from such colleges sent to the Office of Admissions and Records in the Administration building, room 7. Upon student completion of a Request for Evaluation in the Office of Admissions and Records in the Administration building, room 7, those transcripts will be reviewed and credit given where appropriate. Bakersfield College only accepts transfer credits from schools that are accredited by regional accrediting commissions of schools and colleges. Transcripts from foreign institutions must be evaluated by an approved international academic credential evaluation service. Information is available at the Office of Admissions and Records in the Administration building, room 7. Evaluations made and credits allowed by Bakersfield College are subject to review and evaluation by any college or university to which a student may transfer. Qualifying as credit toward a Bakersfield College degree or certificate does not guarantee that pass-through general education will be granted. Evaluations are completed within 5-6 months from submission.

**Advanced Placement Program**

Advanced Placement is a program of college level courses and exams for high school students. Bakersfield College grants college credit for students who score a three or higher on Advanced Placement exams. Additional information may be obtained from the Office of Admissions and Records in the Administration building, room 7.

Students may submit Request for Evaluation forms to the Office of Admissions and Records in the Administration building, room 7 after they have enrolled at Bakersfield College, and they must have appropriate documentation of their successful completions of the Advanced Placement courses. A maximum of 30 units of credit by examination may be applied to the associate degree.

**Credit by Examination**

Credit by exam, sometimes referred to as a “challenge,” is a method for a student to get credit for a specific course, by proving that he/she already has an understanding of the information contained in that course.

In order to qualify for credit by exam, a student must be currently enrolled in courses at Bakersfield College.

For some subjects, credit may be obtained by taking an exam called a CLEP (College Level Examination Program). A list of the courses for which CLEP tests are approved is available in the Office of Admissions and Records in the Administration building, Room 7, and in the Assessment Center. Department administered exams will not be used to award credit in a specific course when a CLEP exam exists. Credit may also be awarded for the Advanced Placement Program.

Students may receive “credit by exam” by producing work that equals the coursework that is normally completed in a specific course. Faculty in the department where the course exists, must assess the student work and assign a letter grade.

It is the responsibility of the student to work with the specific department to receive credit by exam. The student is also responsible for taking the Credit by Exam Form to Admissions and Records, and paying for the course in order for the course to be posted to the permanent record. It is also the student’s responsibility to obtain a Credit by Exam Form from the Office of Admissions and Records.

The college can provide no assurance that credits awarded for credit-by-examination will be treated in a similar manner by other educational institutions.

The student’s permanent record will be annotated to indicate the credit was granted by examination. A maximum of 30 units of credit by examination may be applied to the associate degree.

**College Level Examination Program**

The College Level Examination Program is a means through which academic credit may be given for nontraditional forms of educational experience. Those who may have reached a college level of education through home or correspondence study, on-the-job training, television courses, military service, or other means may take the
CLEP examinations which are offered by the College Entrance Examination Board through the Bakersfield College Assessment Center. Credit for the subject area examination will be awarded upon approval of the appropriate faculty chair. Subject examinations are equated with specific courses listed in the current college catalog. Further information may be obtained from the Office of Admissions and Records in the Administration building, room 7.

Students may submit Request for Evaluation forms to Admissions and Records in the Administration building, room 7 after they are enrolled in classes at Bakersfield College, and they must have appropriate documentation of their successful completions of the College Level Examinations courses. A maximum of 30 units of credit by examination may be credited toward the associate degree.

International Baccalaureate Diploma Program
The International Baccalaureate Organization’s Diploma Program is a comprehensive and rigorous two-year curriculum for university-bound students between the ages of 16 and 19. After completing the courses at the participating high school, students take the related IB examination, and the information is printed on their high school transcripts. Bakersfield College recognizes the high scholastic quality of the International Baccalaureate Diploma Program and awards credit or placement as approved. Students who plan to enroll at Bakersfield College should submit a copy of their official IB transcript to the Office of Admissions and Records in the Administration building, room 7 for evaluation.

Units for which credit is given pursuant to these examinations will not be counted in determining the 12 semester units in residence required for an associate degree.

Military Credit
Bakersfield College will grant veterans from 2 to 12 elective credits for specific service experience and certain educational training while in the service. Evaluation of such experience and training will be made by the Office of Admissions and Records in the Administration building, room 7. Credit evaluations will conform to the regulations set forth by the State Approval Agency of the California State Department of Education and the recommendations of the American Council on Education. A maximum of 12 semester units will be allowed. On average, a Veteran student will receive the following credits: HLEDB1 (3 Units), Physical Education (2 Units), and General Education (7 Units). Evaluations comply with the regulations and recommendations of the American Council on Education. A copy of the veteran’s DD-214, member page 4 (Report of Separation from the Armed Forces) is required along with military transcripts and prior college transcripts. To request Military Transcripts please visit the following website: https://jst.doded.mil/smart/signIn.do

Students may submit Request for Evaluation forms to the Office of Admissions and Records in the Administration building, room 7 after they are enrolled in classes at Bakersfield College and they must have appropriate documentation of their successful completions of the military courses.

Veterans may use their military basic training to satisfy Area E of the CSU General Education Requirements or the Bakersfield College General Education Requirement by request on transcript order forms.

Tech Prep Program
Bakersfield College Tech Prep Program is an integral part of Career and Technical Education, and encourages high school students to continue education training at the college level by offering college credit for high school articulated courses. It provides a smooth transition from high school to a certificate, associate degree, or transfer at the community college without the need to repeat articulated courses. Bakersfield College currently has articulation agreements with high schools, Regional Occupational Centers and Programs, and adult schools.

Bakersfield College will articulate course credit to students who have completed and met the competency requirements of an articulated course, are admitted and in good standing at the college, and only for the course listed in the college catalog. See your high school counselor to obtain a list of courses that are currently articulated at your school or check out our Tech Prep website at: www.bakersfieldcollege.edu/techprep. Additional information can be obtained from the Office of Career and Technical Education, in the Family and Consumer Education building, room 16.

Repeating a Course
Certain Bakersfield College courses are identified in the course description sections of the catalog as repeatable, with the number of times they may be repeated indicated.

Other courses may be repeated once for credit if a grade lower than ‘C’ or its equivalent has been earned. Only second attempts will replace the first substandard grade. The original and subsequent grades will remain a part of the student’s permanent record.

If a student earns any combination of ‘D’, ‘F’, or ‘W’ on two attempts in a course taken in the Kern Community College District, that student can only register for a third time with the signature of the faculty chair of the department on a Request to Repeat a Course Beyond the Limit form. The form should be submitted to the Office of Admissions and Records in the Administration building, room 7.

Final Examinations
A final examination or evaluation is required in all courses. Instructors will give final examinations or evaluations at the regularly scheduled time.

Grades and Credits
Grading System
Grades are earned and awarded in each course and are recorded on the student’s permanent record at the end of each academic term. Evaluation of student achievement will be made in relation to the attainment of the specific objectives of the course. At the beginning of a course the instructor will explain these objectives and the basis upon which grades are determined. A student’s work is considered satisfactory when he/she maintains an average of ‘C’ (grade point average 2.0) or higher.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Excellent</td>
<td>4 per unit</td>
</tr>
<tr>
<td>B-Good</td>
<td>3 per unit</td>
</tr>
<tr>
<td>C-Satisfactory</td>
<td>2 per unit</td>
</tr>
<tr>
<td>D-Less Than Satisfactory</td>
<td>1 per unit</td>
</tr>
<tr>
<td>F-Failing</td>
<td>0 per unit</td>
</tr>
</tbody>
</table>

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AU-Audit
This grade is issued to students who enroll in classes in an audit status. It will not count in GPA.

Pass/No Pass
Some courses are offered on a pass-no pass basis; the credit, no credit option will no longer be available. Upon successful completion of such a course, unit credit will be awarded. However, courses taken on a pass/no pass basis are not used in the computation of a student's grade point average. Regulations for such courses are:

1. A maximum of 12 units may be taken on a pass/no pass basis and applied toward the Associate in Arts or Associate in Science at Bakersfield College.
2. A maximum of three units per semester may be taken on a pass/no pass basis. Exceptions to this rule may be made by the Executive Vice President, Student Services in cases involving Nursing, Radiologic Technology, and special remedial programs.
3. In courses in which pass/no pass is authorized, the pass grade is granted for performance which is equivalent to the letter grade of 'C' or better.
4. Combination classes (pass/no pass or grades) must have an 'A', 'B', 'C', 'D', 'F' and pass/no pass system.
5. Petitions for pass/no pass must be filed with the Office of Admissions and Records in the Administration building, room 7. The 'RD' is a symbol assigned by the Office of Admissions and Records in the Administration building, room 7, when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student.
6. When a student has established the basis for grading as pass/no pass or a letter grade, he/she may not elect to change after the established deadline.
7. The student has withdrawn from a course or has been dropped from a course by the instructor between the dates indicated in these regulations.

IP-In Progress
The IP indicates the course extends beyond the normal end of an academic term and work in progress, or the course is listed as an open-entry/open-exit course, and has been approved by the instructor to register and complete course requirements in the succeeding semester in order to receive credit and a course grade. The grade and unit credit will appear on the student's permanent record for the term in which it was assigned. The IP cannot be given more than twice for any particular course. If a student enrolled in an open-entry, open-exit course is assigned an IP at the end of an attendance period and does not re-enroll in that course during the subsequent attendance period, the instructor shall assign a grade ('A', 'B', 'C', 'D', 'F', 'P', or 'NP') to be recorded on the student's permanent record for the course.

RD-Report Delayed
The 'RD' is a symbol assigned by the Office of Admissions and Records in the Administration building, room 7, when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student.
Grade Reports
Final grades will be made available to students on the Bakersfield College web registration system as soon as possible after the end of each academic term. There will be no additional notification of grades completed or corrected.

Grade Changes
The instructor of each course shall determine the grade to be awarded to each student. The determination of the student’s grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetence. A judgment to change or expunge a grade for reasons of fraud, bad faith, or incompetence shall be made by the college Chief Instructional Officer after consultation with the student, the instructor, and the Department Chair. All parties noted above shall be notified in writing of any changes. Reasons for any grade change shall be documented.

When students request a grade change, provisions shall be made for another faculty member to substitute for the instructor if the instructor is not available or does not respond to communications within a reasonable length of time, the student has filed a discrimination complaint, or the Kern Community College District determines that it is possible there has been gross misconduct by the original instructor.

Honors
Dean’s List
Special recognition is accorded students who maintain a 3.3 grade point average during a semester in which they accumulate at least 42 grade points earned from enrollment in Bakersfield College courses. Students whose academic achievement is at this level are placed on the Dean’s List by the Office of Academic Affairs and are given general recognition on campus and in the community.

Graduation with Honors
Students who have completed at least 60 units in degree applicable letter graded courses, have taken at least 12 of those units at Bakersfield College, and who have earned a cumulative grade point average of 3.50 or higher are eligible for graduation with honors.

The honors designation will appear on the diploma and transcript as follows:

Grade Point Average..............Honor Designation
3.50 - 3.69............................Cum laude
3.70 - 3.89............................Magna cum laude
3.90 - 4.00............................Summa cum laude

Phi Theta Kappa Honor Society
Phi Theta Kappa membership is based on academic achievement. Students must be enrolled in a regionally accredited institution offering an associate degree program. They must complete a minimum of 12 hours of coursework leading to an associate degree, must generally have a 3.25 grade point average, and must enjoy full rights of citizenship. After induction, members must maintain a GPA of 3.25 or higher. There is a fee for membership in this organization.

President’s Scholars
The president of Bakersfield College invites qualified members of each entering freshman class to participate in the President’s Scholars Program using criteria set up by the President’s Scholars/
Transfer Guide

What is Transfer?
Transfer is the process of continuing your education at a four-year college or university, usually after completing your first two years at a community college. If planned correctly, the courses that you pass in community college will count towards requirements for your bachelor’s degree just as if they had been taken at the four-year institution.

Bakersfield College students transfer to a wide variety of universities within California and throughout the United States.

Transfer Services
The Bakersfield College Transfer Center is designed to help you during each step of your transfer experience to ensure a smooth and positive transition. A variety of resources are available, including:

- Academic Counseling
- Guidance in researching and selecting a transfer institution
- Individual appointments with representatives from the UC, CSU, and independent colleges and universities
- Transfer workshops including application and Transfer Admission Guarantee (TAG)
- Transfer Admission Agreements with UC's and some private colleges
- A library of catalogs and college publications
- Information on important dates and deadlines
- Computer software for college research
- Transfer Fairs
- Up-to-Date Transfer website

The Transfer Center is located in the Student Services Building or through InsideBC on the Transfer Portal. To make an appointment, call 661-395-4421.

Educational Options
Transfer is one of several different educational options available at Bakersfield College. The college also offers programs and courses designed to prepare students for a new career field or to upgrade work skills related to a current occupation. The following are the most common degrees and certificates awarded:

Vocational Certificates are awarded after completing specific courses related to a particular occupational area. They are intended for students seeking quick employment or job skills in a specific career field. Vocational Certificates are awarded by community colleges and some private schools.

Associates Degrees are awarded after completing 60 associate degree or transfer semester units of study to include major and general education requirements. An associate degree certifies the achievement of in-depth knowledge about a field of study (your major) as well as the ability to communicate, use mathematics, think critically, and understand various modes of inquiry. The degrees can be in arts (Associate of Arts) or sciences (Associate of Science). The associate degree may also be thought of as the “first half” of a bachelor’s degree, although most universities do not require that you earn it prior to transfer. If you complete the requirements for an Associate of Arts for Transfer degree (AA-T) or Associate of Science for Transfer degree (AS-T) at Bakersfield College you will earn an associate degree as well as being transfer ready. The associate degree is a college degree, and as such, has value for employment and on a resume.

Bachelor’s Degrees are awarded after completing at least 120 semester units of study, including major, general education, and graduation requirements. This is the basic degree awarded by “four-year” colleges and universities. Units earned at community colleges count toward the total units needed for a bachelor’s degree if they are transferable. A bachelor’s degree is usually earned in arts (BA) or sciences (BS), although other more specialized options exist, such as the Bachelor of Fine Arts.

Transfer Coursework
Transfer coursework are courses designed to meet lower-division (freshman and sophomore) requirements of a four-year university.
Choosing a College Major

A major is a field of study that students emphasize in their college education. It is what students “specialize” in with their degrees. It’s important to remember that a major is what students will study at the university they transfer to. At Bakersfield College, students can prepare to transfer into virtually any major at any university—there are literally thousands to choose from. To narrow down the options, students often begin to select their major by one of the following techniques:

- If students have an idea of a career field they want to enter, you can find majors that are related to, or prepare for, that career field. Majors and career fields are not always “perfectly matched.” However, knowing an intended career field can help narrow options.
- To research possible career pathways, visit the Virtual Bakersfield College Career Center, www.bakersfieldcollege.edu/career-center or www.cacareercafe.com or take Student Development B2, a career decision making course at Bakersfield College.
- If students know what university they want to attend, they can select from the list of majors at that university. Lists of majors at California state universities are available at www.assist.org (click on “Explore Majors”).
- If a student thinks they might be interested in a particular major but are not sure, try taking a general education class in the major. Students often select their major based simply on the courses that are the most interesting to them.
- For a description of the most popular majors in California, visit www.petersons.com/college-search/popular-majors-west.aspx

Choosing a Transfer University

Each university may have different transfer requirements, so choosing a transfer university (or a first, second, and third choice) is important to ensure you complete the right courses. Universities in the United States are organized into different systems and categories. Choosing a transfer university is important because:

- The majors offered at each university are different.
- Each university has unique features, including factors like the student body, location, and extracurricular activities.
- You are more likely to do well academically in a university environment that you enjoy.

The most common universities that Bakersfield College students transfer to include:

University of California (UC)

The UC combines undergraduate education (leading to a Bachelor’s degree) with emphasis on graduate programs (Master and Doctor Degrees) and research. The tuition is relatively inexpensive for California residents. UC Davis, Merced, and Santa Barbara are three universities that Bakersfield College students transfer to.

UC Minimum Requirements

Transfer students will be eligible for admission if they meet the following requirements:

- Complete a minimum of 60 UC-transferable semester units or 90 UC-transferable quarter units.
- Obtain a minimum 2.4 GPA (2.8 for California non-residents). The GPA for admission may be significantly higher due to the department or major applicant pool.
- Complete two transferable college courses in English composition and one transferable college course in mathematical concepts and quantitative reasoning.
- Complete 4 transferable college courses chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, physical and biological sciences.

The UC gives high priority to students who complete major coursework early in their academic career.

Students who complete the Interssegmental General Education Transfer Curriculum (IGETC) pattern prior to transferring to the UC system will meet the transfer eligibility coursework requirement listed above (for details on IGETC, see appropriate section of this guide for details). Students are strongly recommended to meet with a counselor to discuss additional requirements for competitive admissions based on major and campus choice.

California State University (CSU)

Emphasizes undergraduate education (leading to a bachelor’s degree) but also offers master’s degrees. Professors spend more time in the classroom and less time on research than those in the University of California system. CSUs emphasize preparation for specific careers and are relatively inexpensive for California residents. CSU Bakersfield, Fresno State University, and CSU Northridge are three local universities in the 23-campus California State University system that Bakersfield College students transfer to.

Associate Degrees for Transfer

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

To view the most current list of Bakersfield College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to the Transfer portal on InsideBC. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.
CSU Minimum Admission Requirements
Transfer students will be eligible for admission if they meet the following requirements:

- Complete a minimum of 60 CSU-transferable semester units or 90 CSU-transferable quarter units.
- Obtain a minimum 2.0 GPA (2.4 for California non-residents). Impacted majors, programs, and colleges may have higher GPA requirements.
- Complete the “Golden Four” (Oral Communication, Written Communication, Critical Thinking, and Mathematics/Quantitative Reasoning) with a grade of C or better. Pass/No-Pass grades are not recommended in these areas.

Students are urged to complete a General Education Pattern in its entirety as CSU GE or IGETC (see appropriate section of this guide for details).

Students are strongly recommended to meet with a counselor to discuss additional requirements for competitive admissions based on major and campus choice.

Private Colleges and Universities
Private colleges and universities are colleges and universities that are not funded by public taxes and sometimes called “independent.” Each university is unique with its own programs, majors, and degrees. Some offer academic programs grounded in a specific religion or philosophy. Others offer programs in only one discipline, such as the arts or technical degrees. Others specialize in providing education to working adults. Private colleges and universities are usually smaller and more focused in academic emphasis than public universities.

Historically Black Colleges and Universities (HBCUs)
Historically Black colleges and universities usually have a majority African-American student body, although students of all races attend them. They may be private or out-of-state public schools. Most are located in the southern United States.

Hispanic Serving Institutions
The Hispanic Association of Colleges and Universities (HACU) is a national educational association that represents colleges and universities committed to Hispanic higher education success in the United States (including Puerto Rico), Latin America, and Spain. HACU has 193 member Hispanic-Serving Institutions (HSIs) located in 11 U.S. states and Puerto Rico. To be considered a Hispanic-Serving Institution, the Hispanic enrollment at a college or university must be at least 25 per cent of the total student enrollment. California is home to 54 Hispanic Serving Institutions including Bakersfield College.

Tribal Colleges and Universities
35 recognized Tribal Colleges and Universities exist in the United States. These are located mainly in the Midwest and Southwest. Tribal Colleges and Universities serve approximately 30,000 full and part-time students. They offer two-year associate degrees in over 200 disciplines, with some providing a bachelor’s and master’s degree. They also offer 200 vocational certificate programs.

Out-of-State Colleges and Universities
These institutions include colleges and universities not in California. They may be public or private and are usually more expensive for out-of-state residents than those who live and pay taxes in the state.

This group of colleges offers a huge variety of degrees and graduate programs.

Preparation for Major Courses
For each major at a four-year institution, there are lower division (freshman and sophomore level) preparatory courses designed to prepare students for upper division study (junior and senior level). Based on the availability of courses, students are strongly encouraged to complete as many major prerequisite courses as possible prior to transfer.

Preparation for Major courses for UC and CSU schools can be found on ASSIST www.assist.org. The ASSIST website is designed to provide students with the most accurate and up-to-date information available. ASSIST lists which community college courses are equivalent to their four-year counterparts and/or will meet specific requirements. Students can find valuable information about additional screening requirements, if the major is impacted, and if there is a required GPA for a specific major on ASSIST.

Students looking to transfer to a private/independent or out-of-state school, should first access the Bakersfield College Transfer Center portal on InsideBC or talk to a Counselor to find out if Bakersfield College has an articulation agreement with the school of interest.

If Bakersfield College has no articulation with the school, you should go to the school’s undergraduate admissions page and search for transfer information or contact the school’s admissions department directly to find out the best way you can take courses towards major preparation.

General Education Courses
General Education (GE) is a set of courses from a variety of different subject areas that every student must complete in order to earn a bachelor’s degree, regardless of major. The goal is to provide a well-rounded or “liberal” education and develop the knowledge, skills, and attitudes that together help make up an “educated person”.

The completion of GE prior to transfer is not required for admission to most universities. However, students should complete an appropriate transfer GE pattern at the community college. GE requirements not fulfilled prior to transfer must be completed later at the university, which often extends the time and expense of a university education.

Students usually follow one of three transfer GE options. These are:

- The IGETC pattern (see page 45)
- IGETC is accepted by all CSU campuses and most UC campuses and majors. IGETC is also accepted by some private/independent or out-of-state universities.

- The CSU GE pattern (see page 47)
- CSU GE is accepted by all CSU campuses and some private/independent or out-of-state universities. CSU GE is not accepted by the UC system.

- An alternative general education pattern (see page 46)
- Alternative general education is usually not recommended for students who plan to transfer to the UC or CSU systems to follow this option. However, students entering high-unit majors such as science or engineering, those transferring to a private/independent or out-
of-state institution, or those who plan to apply to only one university may be best served by an alternative general education pattern.

Students are strongly recommended to consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.

Completion of the IGETC or CSU GE pattern also fulfills the requirements for General Education for a Bakersfield College Associate of Arts or Science degree. Students who complete one of these patterns and additional transfer coursework may also qualify for a Bakersfield College Liberal Arts degree.

General Education Certification (GEC)
General Education Certification is a legal agreement between the UC or CSU systems and the California Community Colleges that permits a student to transfer from a community college to a UC or CSU campus without the need to complete additional lower division general education courses to satisfy university GE requirements after transfer. Bakersfield College will provide an IGETC or CSU GE certification upon completion of GE coursework when requested by the student on the transcript form. This certification may include selected courses taken from other regionally accredited colleges, or credit earned through other means, such as Advanced Placement (AP) test credit. Students do not have "catalog rights" to a certification pattern. Certification is subject to the following conditions:

- For full certification, no fewer than 39 units will be certified; for partial certification, no fewer than 24 units will be certified;
- Only entire areas will be certified.

Pass Along Certification
Students who transfer credits from another California community college often want to "pass along" the general education certifications that they have earned. Any California community college may certify such coursework from another California community college, from a regionally accredited college or university, or from a CSU or UC campus. It is critically important that students transferring coursework from other colleges and universities fill out the Request for Evaluation form available under Admissions and Records, Other Forms on the Bakersfield College website or at window #6 in the Office of Admissions and Records and have official transcripts sent to Bakersfield College Admissions and Records Department to be evaluated.

Course Identification Numbering System (C-ID)
The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the ASSIST database at www.assist.org for specific information on C-ID course designations. Counselors can always help students interpret or explain this information.

Intersegmental General Education Transfer Curriculum (IGETC)
About the IGETC Pattern
The Intersegmental General Education Transfer Curriculum (IGETC) is a general education pattern that will fulfill all lower division general education requirements at all California State University (CSU) campuses and most University of California (UC) campuses/majors. It is also accepted by some private/independent or out-of-state universities. IGETC is usually recommended for students who intend to transfer to a UC campus, or who are not yet sure of their intended transfer university. Completion of the IGETC pattern is not an admission requirement for transfer to most UC or CSU campuses, nor is it the only way to fulfill the lower division GE requirements of a UC or CSU campus prior to transfer.

Students should consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.

Rules for using the IGETC pattern
- Each course must have been IGETC approved at the time it was taken. See www.assist.org for a list of certified courses and approval dates.
- Courses may be approved for more than one IGETC area. However, each course may be used to certify only one of the areas it is approved for.
- Students should apply for IGETC certification at the last community college attended prior to transfer. Forms are available under Admissions and Records, Other Forms or at Window 6 in the Office of Admissions and Records.
- AP credit and coursework completed at accredited U.S. colleges and universities may be used to fulfill some IGETC requirements. All such credit must be evaluated through Admissions and Records. Foreign coursework is not acceptable.
- All courses must be passed with a 'C' or higher. 'C-' is not acceptable.
- Students transferring to UC need not complete the Oral Communication requirement (Area 1C).
- Students transferring to CSU need not complete the Languages Other than English requirement.
- Some UC campuses do not allow use of IGETC for students who were previously enrolled at a UC campus.
- Some community college courses have limitations on the amount of credit awarded by the receiving university. See a
counselor, the course description in the college catalog, or www.assist.org for more information.

IGETC is NOT recommended for the following transfer destinations
- UC San Diego Revelle and Eleanor Roosevelt Colleges
- UC Berkeley Colleges of Business, Chemistry, Environmental Design (Architecture), Engineering, Natural Resources, Optometry.
- UC Davis College of Engineering
- UC Irvine Schools of Engineering, Biological Sciences, Physical Sciences
- UC Riverside Colleges of Engineering, Natural and Agricultural Sciences
- UC Santa Barbara Colleges of Engineering, Creative Studies
- UC Los Angeles Schools of Engineering and Applied Science

The IGETC Pattern

Area 1
English Communication: A minimum of nine units required; choose one from each group. Note: Students transferring to the University of California do not have to meet the oral communication requirement or the unit requirement of Area 1.

Group A
English Composition: one course, three semester/four to five quarter units.
ENGL B1A

Group B
Critical Thinking: English Composition: one course, three semester/four to five quarter units. Courses must have English Composition as a prerequisite. AP credit may not be used.
ENGL B2, B3; PHIL B9

Group C
Oral Communication: one course, three semester/four to five quarter units.
COMM B1, B4, B8

Area 2
Mathematical Concepts and Quantitative Reasoning: one course, three semester/4-5 quarter units.

Area 3
Arts and Humanities: At least three courses, nine semester/12-15 quarter units. At least one course from the arts and one from the humanities.

A. Arts:
ART B1, B2, B4, B35, B36, B37
THEA B12A, B20, B31, B32

B. Humanities:
ASL B2, B3
ENGL B1B, B5A, B5B, B10, B20A, B21, B24, B27, B28, B30A, B30B, ENGL B33
JAPN B2
MUSC B24
PHIL B6a, B10, B18, B37
SPAN B3, B4

Area 4
Social and Behavioral Sciences: At least three courses, nine semester/12-15 quarter units. Courses from at least two disciplines or an interdisciplinary sequence.

ADMJ B40
ANTH B2, B3, B5
CHDV B21
COMM B6
ECON B1, B2
GEOG B2, B5
JRNL B1
POLS B1, B2, B3, B16
PSYC B1A, B6, B20, B33, B40
SOCI B1, B2, B20, B28, B36, B45

Area 5
Physical and Biological Sciences: The IGETC physical and biological science area requires a minimum of two courses, one physical science and one biological science course and at least one of the two must include a laboratory, seven to nine semester/nine to twelve quarter units. Physical and biological science courses that include a laboratory component are listed below in C.

A. Physical Sciences:
ASTR B1, B2, B3
CHEM B1A, B2A, B11, B18
ERSC B10
GEOG B1, B3
GEOL B10, B11
PHYS B2A, B4A

B. Biological Sciences:
ANTH B1
BIOL B3A, B3B, B11, B16
B32, B33
CRPS B5, B10
PSYC B1B

C. Laboratory Science:
BIOL B3A, B3B, B11, B16, B32, B33
CHEM B1A, B2A, B11, B18
CRPS B5, B10
ERSC B10L
GEOG B1L
GEOL B10L, B11L
PHYS B2A, B4A

Area 6-Language Other than English
UC Requirement Only. In order to complete IGETC for the University of California system, students are required to demonstrate competence/proficiency in a language other than English equal to two years of high school study. Competence may be demonstrated through the following mechanisms:

1. Completion of two years of the same foreign language of high school level work with grades of ‘C’ or better;
2. Completion of a course or courses at a college or university, with a grade of ‘C’ or better in each course. Usually, one
Any one of the following course or courses completed with a grade of 'C' or better will fulfill the requirement.

**6A: Languages Other Than English**

- ASL B1  American Sign Language 1
- ASL B2  American Sign Language 2
- ASL B3  American Sign Language 3
- ASL B4  American Sign Language 4
- JAPN B1  Elementary Japanese I
- JAPN B2  Elementary Japanese II
- SPAN B1  Elementary Spanish I
- SPAN B2  Elementary Spanish II
- SPAN B3  Intermediate Spanish I
- SPAN B4  Intermediate Spanish II
- SPAN B35  Spanish for Heritage Speakers I
- SPAN B36  Spanish for Heritage Speakers II

3. Achieve a satisfactory score on the SAT Subject test in languages other than English, as listed below. If the test was taken before May 1995, the first score is the minimum; if the test was taken after May 1995, the second score is the minimum:
   - Chinese With Listening: not offered before 1995/520
   - French/French With Listening: 500/540
   - German/German With Listening: 500/510
   - Hebrew (Modern): 500/470
   - Italian: 500/520
   - Japanese With Listening: 500/510
   - Korean/Korean With Listening: not offered before 1995/500
   - Latin: 500/530
   - Spanish/Spanish With Listening: 500/520
4. Achieve a score of 3, 4, or 5 on a College Board Advanced Placement (AP) Examination in a language other than English.
5. Achieve a score of 5 or higher on an International Baccalaureate (IB) Higher level Examination in a language other than English.
6. Complete, with grades of C or better, two years of formal schooling at the sixth-grade level or higher in an institution where the language of instruction is not English. If secondary school was completed in a non-English-speaking country and the language of instruction of the secondary school was not English, language other than English proficiency can be certified for IGETC without further evaluation. The student must present appropriate documentation of attendance at the secondary school.
7. Earn a passing grade on the international A level or O level exam in a language other than English.
8. If appropriate achievement test is not available to assert proficiency, have competency verified by a faculty member associated with a California community college. Such verification requires that the college provide a document on letterhead asserting that the student’s proficiency in the language is equivalent to two years of high school study. See a counselor for more information. Only students who have no other means to verify foreign language proficiency may pursue this option. Students must petition for faculty member verification through the Evaluations office.
9. A Defense language Institute language other than English course which is indicated as passed with a ‘C’ or higher on the official transcript.
10. Completion of courses above proficiency level, with grades of C or better, may also be used to meet the requirement.

**California State University General Education Breadth (CSU GE)**

**About the CSU GE Pattern**

The California State University General Education-Breadth (CSU GE) pattern is one option that allows California community college transfer students to fulfill the lower-division general education requirements of any California State University (CSU) campus. The curriculum consists of a 39-unit pattern with five areas of concentration described in the CSU GE pattern.

For assistance in determining the most appropriate general education program, consult a counselor.

**Certification of CSU GE Requirements**

Official notification from a California community college that a transfer student has completed courses fulfilling lower-division general education requirements occurs through a process of "certification." Certification is a legal agreement between the CSU and California Community Colleges.

It is the policy of Bakersfield College to provide certification of general education breadth requirements when such service is requested by the student or whenever a student requests that a transcript be sent to a CSU or UC if the student has completed all of 39 units for certification. Certification of general education courses is generally requested when the CSU GE pattern has been completed.

**Additional CSU GE Information and Restrictions**

- Completion of the CSU GE pattern is not an admission requirement nor does completion guarantee admission to any CSU campus or program.
- Certification is based on approved courses listed in the Bakersfield College CSU GE pattern or from other regionally accredited institutions. Courses taken at other community colleges must fulfill the appropriate GE breadth area as defined by that college.
- Courses completed at a foreign college or university cannot be used to satisfy requirements for certification.
- Catalog rights do not apply to the CSU GE pattern.
- Prior to certification, students must complete a minimum of 24 units in residence at Bakersfield College.
- Official transcripts from all colleges and universities attended must be on file before submitting an application for certification. The application is available in the Admission and Records office.
- The CSU GE pattern is accepted by some California private and independent colleges and universities in satisfying lower division general education requirements.
- For additional information, consult a counselor.

**The CSU GE Pattern**

California State University General Education Breadth Course List

A. English Language Communication and Critical Thinking: A minimum of nine semester units in both oral and written
communication in the English language, and in critical thinking and reasoning. AP credit may not be used for A.3.

A.1. Oral Communication: COMM B1, B4, B8
A.2. Written Communication: ENGL B1A
A.3. Critical Thinking: PHIL B7, B9; ENGL B1B, B2, B3; COMM B5

B. Scientific Inquiry and Quantitative Reasoning: A minimum of nine semester units including instruction in physical (B.1) and life science (B.2) and instruction in math/quantitative reasoning (B.4). One of the two science courses from B.1 or B.2 must include a lab. Courses with a lab are shown with an asterisk (*) and separate lab courses are listed in B.3.

B.1. Physical Universe:
ASTR B1, B2, B3
CHEM B1A*, B2A*, B11*, B18*, B30A, B30B
ERSC B10
GEOG B1, B3
GEOL B10, B11
PHYS B2A*, B4A*
PHSC B12*

B.2. Life Science:
ANTH B1
BIOL B3A*, B3B*, B11*, B16*, B18*, B32*, B33*
CRPS B5, B10*

B.3. Laboratory activity. At least one course shown with an asterisk (*) in Areas B.1 or B.2 or one of the following:
CRPS B5
ERSC B10L
GEOG B1L
GEOL B10L, B11L
Courses from B.1 and B.2 with an * also satisfy the B.3 lab requirement.

B.4. Mathematics/Quantitative Reasoning:
MATH B1A, B1B, B2, B4A, B6A, B6B, B6C, B6D, B6E, B22,
B23

C. Arts and Humanities: A minimum of nine semester units among the arts, literature, philosophy and foreign languages. Every attempt should be made to include western and non-western cultures. At least one course must be taken from arts and one from humanities.

C.1. Arts (Art, Dance, Music, Theatre):
ART B1, B2, B4, B13, B35, B36, B37

C.2. Humanities (Literature, Philosophy, Foreign Languages):
ASL B1, B2, B3
ENGL B1B, B5A, B5B, B10, B20A, B21, B24, B27, B28, B30A, B30B, B33
HIST B1, B2, B4A, B4B, B15, B18, B33
JAPN B1, B2
PHIL B6A, B9, B10, B12, B18, B37
SPAN B1, B2, B3, B4, B35, B36

D. Social Sciences: A minimum of nine semester units dealing with human social, political, and economic institutions and behavior and their historical background. Fulfillment of this requirement must include courses taken in at least two disciplines. Every effort should be made to include western or non-western cultures. See notes below for information concerning additional requirements.

D.1. Anthropology and Archaeology:
ANTH B5

D.2. Economics:
AGBS B2
ECON B1, B2

D.3. Ethnic Studies:
ANTH B5
COMM B6
HIST B20A, B20B, B30A, B30B, B36
SOCI B28, B36, B45

D.4. Gender Studies:
HIST B25
SOCI B28

D.5. Geography:
GEOG B2, B5

D.6. History:

D.7. Interdisciplinary Social or Behavioral Science:
AGRI B1
CHDV B21, B42
COMM B6, B7
PSYC B40

D.8. Political Science, Government, and Legal Institutions:
ADMJ B40
JRNL B1
POLS B1, B2, B3, B12, B16

D.9. Psychology:
PSYC B1A, B6, B20 (SOCI B20), B33, B40

D.10. Sociology and Criminology:
ADMJ B40
CRIM B1, B5
SOCI B1, B2, B20 (PSYC B20), B28, B36, B45

E. Lifelong Learning and Self-Development: A minimum of three semester units in study designed to equip human beings for lifelong understanding and development of themselves as integrated physiological and psychological entities. A maximum of one unit of credit is allowed for physical education activity courses in this area.

CHDV B21, B42
COMM B2
FORE B2
HLED B1
MEDS B35
NUTR B10
PHIL B12
PSYC B1A, B30, B33, B40
SOCI B28
STDV B3, B6
2. The Constitution of the United States and the operation of representative democratic government under that Constitution (Area US-2), and
3. The process of California state and local government (Area US-3).

This requirement may be fulfilled at a California Community College prior to transfer by completing a combination of courses that satisfies all three areas of the requirement. The requirement may also be completed at a CSU campus after transfer. Courses approved in two US areas may be used to satisfy both areas.

Although this requirement is not part of the General Education requirements for CSU, all students must complete course work in U.S. History, Constitution and Government before graduation from a CSU campus. The courses may also be used to partially fulfill Area D of the CSU General Education Breadth requirements.

Completion of these courses at Bakersfield College is recommended and is not required for Certification.

Students who wish to meet these requirements at Bakersfield College prior to transferring to a CSU campus may take up to six semester units from the combinations below.

POLS B1 and one of the following: HIST B17A, B17B, B20A, B20B, B30A, B30B, B36, or HIST B17A and POLS B1 or POLS B12 or HIST B18.

Other Transfer General Education Options

Some transfer students are best served by following a general education pattern other than the IGETC or CSU GE patterns. These typically include students who fall into one of the following three categories:

1. Students entering high unit majors such as an engineering or science discipline. Major preparation for the engineering and science fields typically consists of a high number of units. Most universities prefer (and some require) that these preparation for major courses be completed prior to transfer. Therefore, it may be more beneficial for students entering these majors to complete relatively fewer GE courses and more major preparation courses at the community college, while still meeting the minimum admission requirements of the university. Students should review the catalog, other published advising materials of the university and major to which they intend to transfer and www.assist.org for students transferring to the UC or CSU system and a Bakersfield College counselor for assistance in selecting appropriate courses.

2. Students transferring to a private/independent or out-of-state university. Some private/independent and out-of-state universities accept IGETC or CSU GE, but most do not. Instead, each university has its own unique GE pattern.

3. Bakersfield College has established articulation agreements with some of these institutions. These agreements specify the courses students can complete at Bakersfield College to fulfill the university’s GE requirements. They are available at InsideBC on the Transfer Portal. For information on transferring to a private/independent or out-of-state university, visit the Transfer Center.

4. Students who wish to complete the general education requirements of one specific university. Some students decide to complete the GE requirements for one specific university, rather than the more universally applicable IGETC or CSU GE patterns, for several reasons:
   - Some universities and/or majors do not accept IGETC and instead suggest following the university’s own GE pattern.
   - Some students know that they will attend only one university (such as those with a guarantee of transfer admission) and so plan to complete the specific GE pattern for that institution only.
   - Some university-specific GE patterns require fewer total units that IGETC or CSU GE.

Each university’s unique GE pattern can be found in their university catalog. In addition, some UC and CSU campuses have posted general education patterns on the ASSIST website at www.assist.org.

Guaranteed Admission Programs

Bakersfield College offers a number of Guaranteed Admission Programs with several schools including: UC Davis, UC Irvine, UC Merced, UC Riverside, UC Santa Barbara, UC Santa Cruz, as well as CSUB Stem majors. Come to the Transfer Center for program requirements or go to the Transfer Portal on InsideBC.

Plan early as some agreements must be signed at least a year in advance of the transfer semester/quarter. Interested students are strongly urged to meet with the Transfer counselor or attend a Transfer Admission Guarantee (TAG) workshop for details on eligibility requirements as they change every year.

Applying to a University

About applying for admission

Universities require you to apply and be admitted before you start attending school there. All students who apply must meet the minimum requirements (usually certain coursework requirements and a minimum transferable GPA). Some schools accept all transfer students who meet the minimum requirements, while others go through a selection process to determine which students will be offered admission.

Application dates and deadlines

Different systems have different dates and deadlines to apply. If you plan to attend a private/independent or out-of-state university, you should check with that school to find their application deadline and procedures. The following dates and deadlines apply to California public universities only:

**California State University**

<table>
<thead>
<tr>
<th>Term of Transfer</th>
<th>Initial Filing Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td>Feb. 1-28/29 of current year</td>
</tr>
<tr>
<td>Fall</td>
<td>Oct 1-Nov 30 of preceding year</td>
</tr>
<tr>
<td>Winter</td>
<td>June 1-30 of preceding year</td>
</tr>
<tr>
<td>Spring</td>
<td>August 1-31 of preceding year</td>
</tr>
</tbody>
</table>

**University of California**

<table>
<thead>
<tr>
<th>Term of Transfer</th>
<th>Initial Filing Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall semester or quarter</td>
<td>November 1-30 of preceding year</td>
</tr>
<tr>
<td>Winter Quarter</td>
<td>July 1-31 of preceding year</td>
</tr>
<tr>
<td>Spring Quarter</td>
<td>October 1-31 of preceding year</td>
</tr>
</tbody>
</table>
All campuses are open for any given Fall term. For Winter/Spring terms, students should verify that the specific campus accepts transfers for that specific term. Check www.csumentor.edu for CSU campuses and www.universityofcalifornia.edu for UC campuses.

Each campus accepts applications until the end of the filing period or until capacities are reached. If applying after the initial filing period check the campus websites to verify if the campus is still open.

**How to apply**
The UC and CSU systems strongly encourage all students to apply using the online application process. Not only does it make it easier to read and evaluate the application, but the websites also “check your work” to make sure students are not missing any required information before submitting the final application.

The UC application is available at: www.universityofcalifornia.edu/apply.

The CSU application is available at: www.csumentor.edu/admissionapp/undergrad_apply.asp.

**Final Steps to Transfer**
Many universities require you to submit documents, take assessment exams, attend mandatory orientations, or meet other requirements before you enroll. It is very important that you check your email regularly so that you do not miss deadlines. It’s also a good idea to apply for your local Bakersfield College degree and General Education certification from Bakersfield College prior to transfer. You should do as much as you can now to make the transition to your university as smooth as possible.

**Petition to Graduate from Bakersfield College**
Graduation from Bakersfield College is not automatic. You must fill out a Candidacy for Graduation form and a degree analysis with a counselor or advisor. Petition to graduate even if you are only completing transfer coursework. Some transfer students may be eligible to receive a Liberal Arts Associate degree. You should petition to graduate during your last semester at Bakersfield College by these dates:

- August 1-November 1 for Fall semester graduation.
- January 1-April 1 for Spring semester graduation.
- June 1-July 1 for Summer semester graduation.

The Office of Admissions and Records notifies students who do not qualify. Students who do not receive such notification should assume that they will graduate if they satisfactorily complete their current term coursework.

Students who qualify will receive their diploma in the mail approximately eight weeks after the end of the semester.

**File for General Education (GE) Certification**
GE Certification is a legal agreement between Bakersfield College and a California public university (UC or CSU campus) that all of your lower division GE requirements have been completed. Certification can be awarded for either the entire IGETC or CSU GE patterns, or for part of the CSU pattern. Some California private/independent institutions also accept IGETC or CSU GE certification. You should file for GE certification when you are enrolled in your final GE courses and know which university you will be attending. Apply at the Office of Admissions and Records, Transcript window.

**Attend Commencement**
You don’t have to attend Bakersfield College graduation to transfer or to receive your degree, but it’s a great way to celebrate and be publicly recognized for your achievement. You earned it! Commencement ceremonies are held once a year in May. Students who complete their degree requirements during the fall, spring, or summer prior to the ceremony or will complete them during the following summer are eligible to participate.

**Submit Intent to Register and Transcripts**
After offering you admission, most universities require you to send a statement of intent to register (SIR), official transcripts, a deposit, and sometimes additional materials. Review your university admission paperwork for details. Information on ordering transcripts from Bakersfield College is available online at www.bakersfieldcollege.edu/records/transcripts.

**Attend New Student Orientation**
Most universities offer a new student orientation day (some require that you attend), where you learn about university services and requirements, get academic advising, tour the campus, etc. Review your university admission paperwork for details.

**Complete Assessment Tests**
Some universities require transfer students to complete assessment tests either prior to enrollment or during their first year of attendance. Review your university admission paperwork for details.

**Find Housing**
Are you going to live on campus? If so, you will need to apply for campus housing. Check your university online portal account for housing submission dates. If you are going to live off campus, visit your university housing office for listings.

**Send Your Final Transcripts**
You are usually required to send your university a final official transcript after the end of your last regular semester prior to transfer. Information on ordering transcripts from Bakersfield College is online at www.bakersfieldcollege.edu/records/transcripts.

**Meet Immunization Requirements**
Most universities require documentation of immunization against certain communicable diseases like measles or rubella. Review your university admission paperwork for more information.

**Other Transfer Information**
**UC Transfer and Physical Education Courses**
The University of California grants a maximum of four semester units of credit for appropriate Physical Education activity courses. Courses that are subject to this limit are listed as such on the college’s UC Transfer Course Agreement, available on web ASSIST at www.assist.org under the UC Transferable Courses link.
UC Transfer and Variable Topics Courses
These courses are also called "Independent Studies", "Special Studies", "Special Topics", "Internships", "Field Work", etc. Credit for variable topics courses is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty. UC does not grant credit for variable topics courses in Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology), or Library Departments because of credit restrictions in these areas.
**Certificates and Degrees**

Students have many different goals in mind when they enroll at Bakersfield College. Some plan to earn a certificate to enhance their job skills while others want to earn an associate degree and/or transfer to a four-year university. Bakersfield College offers the following certificate and degree programs:

- **Associate in Arts and Associate in Science degrees** can be used to obtain necessary skills for a range of possible careers, or they may be used to transfer to a four-year institution.
- **Associate in Arts/Associate in Science for Transfer degrees (AA-T, AS-T)**. Students will earn an associate degree as well as being transfer-ready.
- **Certificates of Achievement** are awarded to students who complete formal instructional programs of at least 18 units designed to prepare them for a specific field or endeavor.
- **Job Skills Certificates** are awarded upon the satisfactory completion of coursework (less than 18 units) in a specific area of study.

Students who plan to seek immediate employment rather than to transfer usually choose to meet the Bakersfield College General Education Requirements.

**Graduation with an Associate Degree**

The awarding of an associate degree is intended to represent more than an accumulation of units. It symbolizes a successful attempt on the part of the college to lead students through patterns of learning experiences designed to develop certain capabilities and insights: the ability to think and to communicate clearly and effectively both orally and in writing; to solve problems and to use mathematics; to understand the modes of inquiry of the major disciplines; to be aware of other cultures and times; to achieve insights gained through experience in thinking about ethical problems; and to develop the capability for self-understanding. In addition to these accomplishments, the student shall possess sufficient depth in some field of knowledge to contribute to lifetime interest. (Title 5)

The associate degree shall be conferred by the Board of Trustees of the Kern Community College District upon a Bakersfield College student who has satisfactorily completed the requirements. These requirements are consistent with those prescribed by the Board of Governors of the California Community Colleges and the Board of Trustees of the Kern Community College District.

**Associate in Arts/Sciences Degrees for Transfer (AA-T/AS-T)**

California Community Colleges are now offering associate degrees for transfer to the California State University. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a California State University major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the California State University system and given priority admission consideration to their local California State University campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

To view the most current list of Bakersfield College Associate Degrees for Transfer and to find out which California State University campuses accept each degree, please visit the A Degree with a Guarantee website at www.adegreewithaguarantee.com. Current and prospective community college students should meet with an advisor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

**Applying for Graduation**

Students must complete candidacy for graduation requests early in the semester in which they plan to graduate. Applications are available under Other Forms on the Admissions and Records tab in the student portal at inside.bakersfieldcollege.edu. Students should...
bring the completed application form and a DegreeWorks Student View Worksheet to Window 7 of the Office of Admissions and Records. The worksheet and completed graduation request are due as follows:

- To graduate in December, forms are due by November 1
- To graduate in May, forms are due by April 1
- To graduate in August, forms are due by July 1.

The Office of Admissions and Records notifies students who do not qualify as soon as possible after the application is received but no later than the end of the graduation semester. Students who do not receive such notification should assume that they will graduate if they satisfactorily complete the courses they are registered for in their final semester. Students who qualify will receive their diplomas in the mail approximately eight weeks after the end of the semester. Duplicate diplomas can only be issued upon written request and upon payment of a replacement fee.

**Commencement Ceremonies**

Commencement ceremonies are held once each year in May. Students who complete their degree requirements during the fall, summer, or spring prior to the ceremony or who will complete them in the following summer are eligible to participate. Students planning to complete during the following summer must:

- file a candidacy request between April 1 and May 1
- need only one course or less than five units for completion
- submit documentation of registration for the required course(s)

**General Requirements**

1. **Educational Planning**
   - Completion of a designated course and a student education plan within the first 15 units at Bakersfield College. Choose from the following:
     - Agriculture: AGRI B1
     - Allied Health: NURS B100
     - Applied Science and Technology: INDT B10
     - FACE: FDSV B50
     - Physical Science: ARCH B1; ENGR B47
     - Student Development: STDV B1, B2, B3, B4, B6

2. **Minimum of 60 degree applicable units, with at least a 2.0 grade point average.**
3. **At least 12 of the 60 units must be completed with Bakersfield College.**
4. **Completion of the required courses with a minimum grade of 'C' of a designated major.**
5. **Competency Requirements:**
   - **Composition:** completion of English B1A with a minimum grade of 'C'.
   - **Mathematics:** Two years of high school algebra or MATH B70 with a minimum grade of 'C'; or an equivalent score on the Placement/Assessment.
   - **Reading:** a satisfactory score on the Bakersfield College Placement/Assessment or a satisfactory grade in ACDV B50.
6. **Completion of a General Education Pattern:** Choose 1: Bakersfield College General Education Specific Requirements, or California State University General Education Breadth, or Intersegmental General Education Transfer Curriculum (IGETC). (See General Education Requirements)

7. **Completion of one course with a minimum grade of 'C' meeting the Multicultural Requirement**

**Multicultural Requirement**

Multicultural study promotes awareness of and sensitivity to diverse beliefs and practices in contemporary society. Bakersfield College requires students to take courses that are inclusive of multicultural perspectives found in American and global society. This requirement may be satisfied through studying the distinctive cultures of the United States or the world, including but not limited to ethnicity, gender, class, political systems, religions, or human geography.

**American Cultural and Ethnic Groups**

This requirement includes courses that lead to an understanding of ethnic groups and cultures in American society. Courses will focus on themes that address the theoretical or analytical issues relevant to understanding race, culture, and ethnicity. This exploration can be accomplished through the study of, but not limited to: African Americans, Native Americans, Asian Americans, Chicano/Latino Americans, and European Americans from integrative and comparative viewpoints as they relate to the larger context of American history, society, and culture.

**World Cultures**

Students may develop a multicultural perspective through a study of world cultures and their relationship to America in a global society. The study of the history, society, or culture of a foreign country and its relationship to America can demonstrate the interdependence of all nations in a global political, economic and social infrastructure.

Courses meeting this requirement should not be based solely on Western Civilization.

**Multiple Degrees**

An associate in arts or associate in science degree will be awarded to those already possessing an associate or higher degree if:

1. All requirements in a different major from that of previous associate or higher degree are satisfied; and
2. All general education requirements in effect when beginning the new degree program are satisfied; and
3. The student is enrolled at Bakersfield College during the semester in which the degree requirements are completed.

**General Education**

The General Education Program at Bakersfield College includes those courses required of all students, regardless of major or career goals, for the associate degree or for transfer to some four-year institutions. The program is intended to be more than a requirement; it can be an exciting, dynamic, and essential part of a student’s education.

The General Education Program has been designed to address the needs of men and women of all ages, abilities, ethnic identities, life styles, and goals. Through general education, the college seeks to foster knowledge, skills, and attitudes that will empower students to shape the direction of their lives and their environment. Its goal is to encourage students to strive for the highest quality of life, both at leisure and at work, for themselves, their families, and the larger community.
Recognizing the certainty of change, the college, through the General Education Program, hopes to prepare students to meet the challenges of the twenty-first century. Specifically, the program will assist them to develop and acquire the following:

- Global Consciousness: an awareness of the complexity and diversity of the world, with its interplay of environmental, social, cultural, political, and economic forces, and an understanding of the unique role that each person plays in the system of relationships which extends from family to the international community.
- Communication Skills: the ability to convey ideas, values, feelings, and knowledge accurately and effectively through written, oral, aesthetic, and technological media across personal, cultural, and national boundaries.
- Adaptability: the willingness and confidence to accept and respond creatively to change, and the ability to analyze, think critically, solve problems, and resolve personal and interpersonal conflicts.
- Responsibility: A respect for ethics, citizenship, and leadership, and a commitment to personal health and emotional growth which enable one to participate in life rather than react to it.
- Knowledge: the body of information, reflecting both quantitative and qualitative reasoning, in the arts, sciences, and technology, their modes of inquiry and expression, their interrelationships, and the methods of accessing information in all areas of study.

The general education program thus seeks to assist students to succeed in the present and to inspire them to approach the future with a commitment to life-long learning.

Because certain basic competencies are necessary for an educated person, the General Education Program specifically requires competency testing (or course alternatives) in reading, written expression, and mathematics.

Institutional Level Learning Outcomes

Upon completion of an associate degree, a student will:

I. Pursue knowledge and evaluate its consequences
   A. Think critically, abstractly, logically, and algorithmically to evaluate and solve problems.
   B. Integrate new information to formulate principles and theories and display openness to different opinions.
   C. Share the desire for intellectual creativity and acquisition of knowledge.
II. Communicate clearly and effectively in both written and oral forms.
III. Demonstrate knowledge and abilities in a chosen area of study.
   A. Demonstrate an understanding of resources and procedures of a field and the ability to use them.
   B. Demonstrate the ability to use current technology to acquire, organize, and analyze information appropriately.
   C. Possess a core of knowledge and skills in a chosen field.
IV. Appreciate civic responsibilities.
   A. Reflect upon the cultural and ethical dimensions of life.
   B. Contribute to society as an actively engaged citizen.

General Education Student Learning Outcomes

A.1. Oral Communication

1. Form and present informative persuasive messages.
2. Demonstrate competence in both active and empathic listening.
3. Present oral messages to appropriate audiences and adhere to conventions of message delivery.
4. Manage personal communication apprehension and anxiety.

A.2. Written Communication

1. Identify the controlling idea and the main points of college-level expository and argumentative essays.
2. Evaluate expository and argumentative essays through the application of critical thinking techniques.
3. Write logical and coherent expository and argumentative essays, summaries, and paraphrases using correctly the standard conventions of written English.

B.1. Natural Sciences

1. Demonstrate a knowledge of natural phenomena and recognize the processes that explain them.
2. Demonstrate a knowledge of scientific methodologies when solving a problem.

B.2. Mathematics and Logic (Analytic Thinking)

1. Apply formal systems of reasoning in solving problems or analyzing arguments.

C.1. Introduction to the Arts

1. Demonstrate an understanding of and an ability to describe the ways in which arts, literature, philosophy or foreign languages reflect historical, intellectual, and cultural contexts, as well as aesthetic tastes.
2. Demonstrate the ability to recognize, describe and/or produce various components of an art form or language either visually and/or auditorily.

C.2. Introduction to the Humanities

1. Demonstrate an understanding of and an ability to describe the ways in which arts, literature, philosophy or foreign languages reflect historical, intellectual, and cultural contexts, as well as aesthetic tastes.

D.1. Foundations in the Behavioral Sciences

1. Demonstrate an understanding of the perspectives, theories, methods, and core concepts of the behavioral sciences.
2. Explain the major problems and issues in the disciplines in their contemporary, historical, and geographical contexts.
3. Demonstrate an understanding of and an ability to describe the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.

D.2. Foundations in the Social Sciences

1. Demonstrate an understanding of the perspectives, theories, methods, and core concepts of the social sciences.
2. Explain the major problems and issues in the disciplines in their contemporary, historical, and geographical contexts.
3. Demonstrate an understanding of and an ability to describe the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.

D.3. American (U.S.) Institutions
1. Demonstrate an understanding of the perspectives, theories, methods, and core concepts of the social sciences.
2. Explain the major problems and issues in the disciplines in their contemporary, historical, and geographical contexts.
3. Demonstrate an understanding of and an ability to describe the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.

E. Lifelong Understanding and Self-Development
1. Critically examine the development of the individual as an integrated physiological, psychological, spiritual, and social being.
2. Identify, describe and explain the interactions of the internal and external influences and effects in human development and behavior over the course of the human life span.

Bakersfield College General Education Pattern
A. Communication in the English Language and Critical Thinking (6 units)
Courses in language and rationality are those which develop the principles and applications of language toward logical thought, clear and precise expression, and critical evaluation and communication. Take 3 units in A.1 and 3 units in A.2.

A.1. Oral Communication (3 units) COMM B1, B4, B8
A.2. Written Communication (3 units) ENGL B1A, B2, B3

B. Physical Universe and Life Forms (6 units)
Courses in the natural sciences are those that examine the physical universe, its life forms, and its natural phenomena. Further, courses in the natural sciences help develop an appreciation and understanding of the scientific method. Courses in the natural sciences, math and logic help students apply logical, qualitative and quantitative reasoning in solving problems or analyzing arguments. Take 3 units in B.1 and 3 units in B.2.

B.1. Natural Sciences (3 units)
  • Life Sciences:  
    • ANSC B1
    • ANTH B1
    • BIOL B3A, B11, B16, B18, B32, B33
    • CRPS B1, B10
    • FORE B2
    • PSYC B1B
    • SOIL B1

  • Physical Sciences:  
    • ASTR B1, B2, B3
    • CHEM B1A, B2A, B11, B18
    • ERSC B10; B10L
    • GEOG B1, B1L, B3
    • GEOL B10, B10L, B11, B11L
    • PHSC B12
    • PHYS B2A, B4A

B.2. Mathematics and Logic Analytical Thinking (3 units)
  • COMM B5
  • MATH B1A, B1B, B2, B4A, B6A, B6B, B6C, B22, B23, B27
  • PHIL B7, B9
  • PSYC B5, B6

C. Arts, Literature, Philosophy and Foreign Language (3 units)
Courses in the Arts, Literature, Philosophy and Foreign Language are those which study the cultural activities and artistic expressions of human beings. The courses help develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them. Art and language study may consist of historical or stylistic survey courses, courses involving speaking (signing) and understanding a language, hands-on creation or re-creation of examples of visual or performing arts, and/or courses which develop specific skills necessary for engaging in visual or performing arts.

C.1. Arts
  • ART B1, B2, B4, B5, B10, B16, B17, B20, B24, B35, B36, B37*
  • ORNH B36
  • SPAN B1
  • THEA B1, B2A, B2B, B12A, B20, B27, B31, B32

C.2. Humanities
  • ASL B1, B2, B3, B4, B7
  • COMM B21
  • ENGL B1B, B5A, B5B, B10, B20A*, B21*, B24, B27, B38, B30A, B30B, B33
  • JAPN B1, B2, B3
  • PHIL B6a, B10, B12, B18, B37*
  • SPAN B1, B2, B3, B4, B35

D. Social, Political, Legal and Economic Institution and Behavior, Historical Background (9 units for AA; 6 units for AS)
Courses in the social and behavioral sciences are those which focus on people as individuals and as members of society. The courses will help develop an understanding of the methods of inquiry used by the social and behavioral sciences. For an Associate in Arts degree, choose six units from D.1 and/or D.2 and 3 units from D.3. For an Associate in Science degree, take 3 units from either D.1 or D.2 and three units from D.3.
D.1. Foundations in the Behavioral Sciences
- CHDV B21
- COMM B6*
- PSYC B1A, B20 (SOCI B20), B33, B40
- SOCI B20 (PSYC B20)

D.2. Foundation in the Social Sciences
- AGRI B1
- AGBS B2
- ANTH B2*, B3, B5*
- BSAD B20
- COMM B7
- CRIM B1, B5
- ECON B1, B2
- GEOG B2*
- JRNL B1*
- POLS B1*, B2*, B3*, B12*, B16
- PSYC B20 (SOCI B20)
- SOCI B1*, B2, B20 (PSYC B20), B28*, B36*, B45*

D.3. American (U.S. Institutions)
- HIST B17A*, B17B*, B18*, B20A*, B30B*, B36*
- POLS B1*, B12*

E. Lifelong Understanding and Self-Development (4 units)
Courses in this area will prepare students for lifelong integrated physiological and psychological development. Take 3 units from one of the following courses:
- COMM B2
- HLED B1
- NUTR B10
- MEDS B35, or completion of an approved Allied Health Program
- PHED B36
- PSYC B1A, B30, B33
- STDV B6

No more than one unit of activity/skills course work may be used to satisfy the Area E requirement. Take 1 unit from the following PHED courses:

*Course satisfies the Multicultural Requirement.

Multicultural Requirement
Bakersfield College requires students to take courses that are inclusive of multicultural perspectives found in American and global society. This requirement may be satisfied through studying either American ethnic groups or world cultures.

Note: Students must complete at least one class identified with an (*) to satisfy the Multicultural Requirement for graduation.

The following courses satisfy both a Bakersfield College General Education category and the Multicultural Requirement:
- ANTH B2, B5
- ART B37
- COMM B6
- ENGL B20A, B21
- GEOG B2
- JRNL B1
- MUSC B24
- PHIL B37
- POLS B1, B2, B3, B12
- SOCI B1, B28, B36, B45

The following non-general education courses also satisfy the Multicultural Requirement:
- ASL B6
- CHDV B32
Programs, Certificates, and Degrees

Listed below are Job Skills Certificates (JSC), Certificates of Achievement (CA), Associate in Arts (AA), Associate in Science (AS), and Associate in Arts for Transfer (AA-T) which Bakersfield College currently offers. Suggested courses of study that may be found in the catalog are indicated by (JSC), (CA), (AA), (AS) or (AA-T). An asterisk (*) indicates that the student must consult the appropriate department chair for further information. Job Skills Certificates (less than 18 units) document the satisfactory completion of training in a specific area of study. Certificates of Achievement (18 units of study or more) are awarded for the completion of a formal instructional program which is designed to give the learner skills, knowledge, and attitudes for a specific field or endeavor.

To apply for any certificate, students must have earned at least three credits of the courses required for the certificate at Bakersfield College. Upon completion of the requirements for a certificate, the student contacts the academic department to complete an application for a Certificate of Achievement or a Job Skills Certificate. Certificates are issued by the department 6-8 weeks after the receipt of the application. Only Certificates of Achievement will be posted to transcripts.

Legend
Job Skills Certificates (JSC)
Certificates of Achievement (CA)
Associate in Arts (AA)
Associate in Science (AS)
Associate in Arts for Transfer (AA-T)
Associate in Science for Transfer (AS-T)
Baccalaureate Degree (B)

BACCALAUREATE DEGREE
59 Baccalaureate Degree Program in Industrial Automation (B)

ADMINISTRATION OF JUSTICE
72 Administration of Justice (AS-T)

AGRICULTURE
73 Agriculture Business Management (CA)
73 Agriculture Business Management (AA)
74 Agriculture Business Management (AS)
74 Animal Science (CA)
75 Animal Science (AA)
75 Animal Science (AS)
76 Environmental Horticulture (CA)
76 Environmental Horticulture (AA)
76 Environmental Horticulture (AS)
77 Forestry (CA)
77 Forestry (AA)
78 Forestry (AS)
78 Plant Science (CA)
79 Plant Science - Crops Emphasis (AA)
79 Plant Science - Crops Emphasis (AS)
80 Plant Science - Horticulture Emphasis (AA)
80 Plant Science - Horticulture Emphasis (AS)
80 Pre-Veterinary Medicine Option
80 Registered Veterinary Technician (JSC)

AMERICAN SIGN LANGUAGE
81 American Sign Language (AA)

ANTHROPOLOGY
82 Anthropology (AA-T)

APPRENTICESHIP
82 Apprenticeship (AA)
82 Apprenticeship (CA)

ARCHITECTURE
82 Architectural Computer Aided Drafting (JSC)
82 Architectural Drafting (AS)
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<th>ART</th>
<th>83 Studio Arts (AA-T)</th>
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<td>84 Graphic Design (CA)</td>
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<td>84 Photography (CA)</td>
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<td>AUTOMOTIVE</td>
<td>85 Auto Brakes and Wheel Alignment (CA)</td>
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<td>85 Auto Engine Overhaul (CA)</td>
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<td>86 Automotive Heating, Ventilation &amp; Air Conditioning-HVAC (JSC)</td>
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<td>87 Basic and Advanced Clean Air Car Course (JSC)</td>
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<td>88 Industrial Technology, Automotive Option (AS)</td>
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<td>91 Office Assistant (JSC)</td>
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<td>94 Elementary Teacher Education (AA-T)</td>
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<td>95 Child Development Assistant Teacher (JSC)</td>
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<td>95 Child Development Associate Teacher (JSC)</td>
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<td>95 Child Development Teacher (CA)</td>
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<td>96 Child Development Master Teacher-Special Education (CA)</td>
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<td>COMMUNICATION</td>
<td>96 Communication Studies (AA-T)</td>
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<td>HISTORY</td>
<td>113 History (AA-T)</td>
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<tr>
<td>HUMAN SERVICES</td>
<td>113 Human Services (JSC)</td>
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<td>114 Human Services (AA)</td>
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<td>114 AutoCAD (JSC)</td>
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<td>114 Industrial Drawing (AA)</td>
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<td>115 Industrial Technology, Industrial Drawing Option (AS)</td>
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<td>INDUSTRIAL TECHNOLOGY</td>
<td>115 Industrial Technology (General) (AS)</td>
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<tr>
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<td>116 Journalism (AA-T)</td>
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<td>LIBERAL ARTS</td>
<td>117</td>
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<td>PHILOSOPHY</td>
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<td>PHYSICS</td>
<td>128</td>
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<tr>
<td>POLITICAL SCIENCE</td>
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<td>PRIMARY CARE ASSOCIATE/PHYSICIAN’S ASSISTANT</td>
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<td>PSYCHOLOGY</td>
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<td>RADIOLOGIC TECHNOLOGY</td>
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<td>SOCIOLOGY</td>
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<td>SPANISH</td>
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<td>THEATRE ARTS</td>
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<td>WELDING</td>
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<td>WOODWORKING/CABINETMAKING</td>
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<td>WELDING</td>
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<td>WELDING</td>
<td>138</td>
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<tr>
<td>WELDING</td>
<td>138</td>
</tr>
</tbody>
</table>
Baccalaureate Degree

Baccalaureate Degree Program in Industrial Automation

Industrial automation represents the technology-driven business model of the 21st century. In today's industry, engineers involved in developing new products or processes work closely with technologists who apply scientific and technical knowledge in the design, manufacturing, and repair of automation systems. Bakersfield College's Baccalaureate Degree Program in Industrial Automation will train students with the skill set those technologists require, meeting the needs of a host of local employers, including major companies in the agriculture, distribution, and manufacturing sectors.

This degree focuses on the application of electronics and computer technology to industrial automation systems, which may apply to various categories of job titles in the following areas:

- Maintenance of Industrial Equipment
- Automation (Programmable Logic Controllers/PAC's, robotics, materials and product handling, motion control/motor drives, networked control systems, automated production equipment, integration of various technologies into solutions, and related areas)
- Process Control and Measurement (Instrumentation, Industrial Measurement)
- Quality Assurance/Quality Control
- Industrial Safety and Hygiene
- Technical Management (managing technical employees)
- Operations Management (managing company operations)
- Facilities Planning, Infrastructure, Upgrade Supervision
- Operations Management
- Technical Sales and Marketing
- Design and Engineering Operations (positions that do not require the employee to have completed a four-year Engineering degree and/or be licensed)

The program prepares students for careers in the design, operation, and management of industrial automation systems focusing on the local industries that utilize these technologies, such as petroleum production, food production, fabrication, and logistics. Significant emphasis is placed on project based learning facilitated by significant laboratory work.

There will be approximately 62 units of general education and major coursework for lower division requirements of the degree. The lower division general education pattern closely follows the CSU GE Breadth Course pattern, including specific GE courses required for this program. In addition, most of the lower division core electronics courses will need to be completed such as: basic electronics, computer integrated manufacturing, programmable logic controllers, and instrumentation/process control.

There will be 60 units of upper division coursework, including new upper division technical and general education courses. Upper division technical courses will cover a broad range of industrial topics including automation networks and systems, automation measurement and motion control, and automation applications in manufacturing and production processes, but will also include courses in project management, leadership and entrepreneurship, quality assurance and facilities planning and operations.

Program Learning Outcomes

Upon successful completion, the student will:

- Apply critical and analytical thinking skills to industry-related problems in the areas of safety, quality assurance, and design of systems;
- Display effective communication skills commonly used in industry, including presentation and writing skills;
- Demonstrate a broad understanding of the mathematical and scientific principles utilized in industrial automation and manufacturing;
- Demonstrate competency in industrial automation and instrumentation, including relevant hardware and software utilized in industry;
- Manage automation and manufacturing projects applying knowledge of budgetary and scheduling principles in an ethical environment.

Transfer Degrees

Associate in Science in Administration of Justice for Transfer

The Associate in Science in Administration of Justice for Transfer degree (AS-T in Administration of Justice) is intended to prepare students to transfer to CSU campuses that offer bachelor’s degrees in Administration of Justice or Criminal Justice. Students who complete this degree will receive “priority admission with junior status to the California State University system”. This degree requires students to complete 60 CSU transferable units including completion of CSU GE or IGETC and 18-20 units in the major. Title 5 requires that students earn a grade of 'C' or better in all major coursework. A 'P' (Pass) grade is not acceptable for courses in the major. There are no additional graduation requirements. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to identify, analyze, and apply the fundamental theories and concepts underlying the American Criminal Justice system.
- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to identify and describe the operational elements of the major components comprising the American Justice system.
- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to identify and implement the principles and rules to factual situations.
- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to demonstrate multicultural awareness and respect for constitutional and human rights.
- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to identify, analyze, and apply the ethical components of discretionary decision-making in the three major components of the criminal justice system: police, courts, and corrections.
A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to demonstrate respect for the dignity and humanity of victims, perpetrators, and wrongfully convicted persons.

**Required Core: (6 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B1</td>
<td>Introduction to Criminal Justice</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B2</td>
<td>Criminal Law</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A Select two (6 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B3</td>
<td>Introduction to Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B4</td>
<td>Constitutional Criminal Procedure</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B5</td>
<td>Community Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B8</td>
<td>Criminal Investigation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B9</td>
<td>The Juvenile Justice System</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B12</td>
<td>Forensic and Scientific Aspects of Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B21</td>
<td>Introduction to Correctional Administration</td>
<td>3.0</td>
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</table>

**List B select two (6-8 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>5.0</td>
</tr>
<tr>
<td>PSYC B1A</td>
<td>General Psychology</td>
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</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
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</tbody>
</table>

Total Required Units 18-20

**Anthropology Associate of Arts Degree for Transfer**

The Associate of Arts in Anthropology Degree for Transfer is designed to provide students a clear pathway to the CSU baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units.

**Program Learning Outcomes**

Upon successful completion of this program, students will be able to:

- demonstrate an understanding of the biocultural nature of humanity through application of the core concepts, methods, and theories, in cultural anthropology, biological anthropology, and archaeology to explanations of human diversity.
- describe the origins and history of the discipline of American anthropology; its unique perspectives and approaches to the study of humanity; its ethical challenges; its dual nature as the humanistic/scientific study of humanity; and its uses and value in today’s world.
- critically evaluate information about human societies and origins without reliance on taken-for-granted assumptions, using a combination of skills, including the scientific method, qualitative social analysis, and reflective writing.

Anthropology is the scientific study of humanity, examining human biology and culture today and in the past; and biological and cultural change through time. Students with an Anthropology major concentrate in one of the following areas: cultural anthropology, linguistic anthropology, biological/physical anthropology or archaeology. The major in anthropology prepares students for a variety of research/academic positions (e.g. museums, colleges and universities, zoos); and non-academic/research positions (e.g. in business, medicine, cultural resource management, government and NGO’s). The objective of this program is to prepare students for transfer to a four-year university. Anthropology’s emphasis on research skills, organizational skills, critical thinking, technical writing, project management and use of a holistic perspective make it an excellent undergraduate major for a variety of fields and graduate programs.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the Kern Community College District Board of Trustees.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. ‘P’ (Pass) grade is not acceptable for courses in the major.

**Required Core - 9 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH B1</td>
<td>Physical Anthropology</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH B2</td>
<td>Introduction to Cultural Anthropology</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH B3</td>
<td>Introduction to Archeology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A - Select at least one, 3-4 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH B5</td>
<td>North American Indians</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for Behavioral and Social Sciences</td>
<td>4.0</td>
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</table>

**List B - Select at least one, 4 Units**

<table>
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<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PSYC B6</td>
<td>Research Methods for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>GEOL B10</td>
<td>Introduction to Geology</td>
<td>3.0</td>
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<tr>
<td>GEOL B10L</td>
<td>Introduction to Geology Laboratory</td>
<td>1.0</td>
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<tr>
<td>ERSC B10</td>
<td>Introduction to Earth Science</td>
<td>3.0</td>
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<tr>
<td>ERSC B10L</td>
<td>Introduction to Earth Science Laboratory</td>
<td>1.0</td>
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**List C - Select at least one, 3 Units**

<table>
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<tr>
<th>Course Number</th>
<th>Title</th>
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<tbody>
<tr>
<td>ART B1</td>
<td>Art Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOG B2</td>
<td>Human Geography</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B24</td>
<td>A Survey of World Music</td>
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</tr>
<tr>
<td>PHIL B37</td>
<td>Introduction to Word Religions</td>
<td>3.0</td>
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</table>

Units in Major 19-20
**Associate in Science in Business Administration for Transfer**

The Associate in Science in Business Administration for Transfer degree (AS-T in Business Administration) is designed to provide students a clear transfer pathway to the CSU business administration major and completion of the business administration baccalaureate degree, to grant guaranteed admission to a CSU to a similar major with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. The Associate of Science in Business Administration for Transfer degree provides a study of key business concepts. Business Administration majors will be able to analyze business scenarios and use numerical, graphical, symbolic, and verbal representations to effectively solve problems and communicate those solutions. Business Administration majors will be able to communicate economic effects, effectively convey financial information, and explain social, political, and ethical implications of business decision-making. The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtaining of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Program Learning Outcomes**

Upon successful completion, students will be able to:

- Analyze a business scenario and use numerical, graphical, symbolic, and verbal representations to effectively solve problems and communicate those solutions.
- Analyze a business scenario and correctly prepare financial statements to effectively convey financial information for management decision-making.
- Analyze a business scenario using the tools of economic theory to communicate economic effects on business decision making.
- Analyze a business scenario and appropriately apply computer information systems and business concepts to designing and managing business documents.
- Analyze a business scenario and effectively explain the social, political and ethical implications of the law to actual and hypothetical business transactions.

**Required Core Courses**

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<tr>
<th>Course Number</th>
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<tr>
<td>BSAD B1</td>
<td>Financial Accounting</td>
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<tr>
<td>BSAD B2</td>
<td>Managerial Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B18</td>
<td>Business Law</td>
<td>3.0</td>
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<tr>
<td>ECON B1</td>
<td>Principles of Economics: Micro</td>
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<tr>
<td>ECON B2</td>
<td>Principles of Economics: Macro</td>
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<tr>
<td>MATH B22</td>
<td>Elementary Probability &amp; Statistics</td>
<td>4.0</td>
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**List A Select one (3-4 units)**

<table>
<thead>
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<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B2</td>
<td>Business Calculus</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B23</td>
<td>Finite Math</td>
<td>3.0</td>
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**List B Select one (3 units)**

<table>
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<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
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</table>

**Total Required Units**: 26-27

**Associate in Arts in Communication Studies for Transfer**

The Associate in Arts in Communication Studies for Transfer is intended for all students who plan to complete an AA in Communication studies. This degree is especially valuable for those students planning on completing a bachelor’s degree in Communication or a similar major at a CSU campus because the Associate in Arts in Communication Studies for Transfer guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Communication Studies for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Communication Studies for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. No additional graduation requirements are required to complete this degree.

The Associate in Arts in Communication Studies for Transfer equips students with relational and presentation skills that provide a foundation for success throughout students’ educational careers, business careers and personal interactions. Students learn about verbal and nonverbal channels of communication that inform, persuade, manage, interpret, direct, or influence social interaction in diverse contexts. The degree introduces students to both established and contemporary theories of human communication pertaining to societal construction, maintenance, and perpetuation of acceptable patterns of communicative conduct. Students choosing this degree also acquire pragmatic communication skills enabling them to competently navigate social interaction within interpersonal, small group, public, organizational, and intercultural contexts. Students learn field-specific nomenclature as well as effective oral, listening, and critical thinking skills needed to successfully manage communication encounters in a variety of professional and personal environments. Students will be prepared in this lower division work for a baccalaureate degree in Communication Studies, Speech Communication, or a similar degree.

**To Achieve the Associate in Arts for Transfer**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Communication Studies Associate in Arts for Transfer degree.

**To Transfer Coursework**

A minimum of 18 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes
Upon successful completion, the student will be able to:

- identify the appropriate software development technologies, algorithms, and scientific and mathematical principles to apply to a given program.
- effectively design and implement programming constructs, including functions, control structures, arrays/lists, classes and objects for a given programming problem.
- effectively implement the appropriate data structures using the principles and techniques of object-oriented programming for a given programming problem.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B11</td>
<td>Programming Concepts and Methodologies I</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B12</td>
<td>Programming Concepts II</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B13</td>
<td>Computer Architecture &amp; Organization</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B14</td>
<td>Discrete Structures</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4A</td>
<td>Mechanics and Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4B</td>
<td>Heat, Electricity, Magnetism</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total required units in major area of emphasis: 28

Associate in Science in Early Childhood Education for Transfer
The Associate in Science in Early Childhood Education for Transfer degree is designed to train students to work in a variety of early childhood settings. The two-year program primarily serves students desiring an early childhood background, supervised student teaching experience and fulfillment of academic requirements for a Child Development Teacher Permit. Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Development and Family Relations Associate in Science degree.

Early Childhood Education Careers (ECE): ECE Site Supervisor; ECE Assistant Teacher; ECE Associate Teacher; ECE Master Teacher; ECE Program Director; Licensed Day Care Provider; After School Coordinator; ECE Mental Health Case Manager; Family Service Advocate, Child Advocate, Social Worker/Child Protective Services, Elementary Education Credentialed Teacher, Marriage Family Counselor, School Psychologist, College Instructor, Doula, Lactation Consultant.
The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes
Upon successful completion, the student will be able to:
- demonstrate an understanding of developmentally appropriate curriculum and explain principles and practices pertaining to child development.
- explain topics concerning the child, family, and community, and will be able to demonstrate pediatric CPR and first aid.
- compose observations and assessments, compare and contrast the development of children on children from infancy to adolescents considerign culture and typical and atypical needs.
- demonstrate an understanding of the needs of infant/toddler and children with special needs, according to their mastery specialization. The master teacher will be able to design a care plan for the needs of infant and toddlers or special education children commensurate to their specialization.
- A minimum of 18 semester units in a major area of emphasis, as determined by the district.
- The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Required Core Courses
Course Number Title                  Units
CHDV B20 Principles and Practices 3.0
CHDV B21 Child Growth and Development: Birth Through Adolescence 3.0
CHDV B22 Observation and Assessment - Birth Through Adolescence 3.0
CHDV B32 Teaching in a Diverse Society 3.0
CHDV B36 Developmentally Appropriate Curriculum 3.0
CHDV B41 Supervised Field Experience in Early Childhood Education 3.0
CHDV B42 Child, Family, and Community 3.0
CHDV B49 Child Health, Safety and Nutrition 3.0

Associate in Arts in Economics for Transfer
The Associate in Arts in Economics for Transfer Degree is designed to prepare students for transfer into the CSU system to complete a baccalaureate degree in Economics or a similar major. It is designed for students interested in preparing for advanced degrees in Economics, Business, or Law, and for those students concerned with the economic behavior of consumers, businesses, and governments. Economics majors have a wide variety of career opportunities in business, law, journalism, education, politics, finance and banking, government, public and private overseas service, and labor leadership. Many economics majors go on to pursue graduate study in a related professional area, such as law, business, or public administration.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes
Upon successful completion, students will be able to:
- Economics students will be able to explain the nature and functioning of the market system.
- Economics students will be able to define criteria for assessing efficiency in the provision of goods and services.
- Economics students will investigate and assess the operation of economic institutions.
- Economics students will be able to evaluate alternative policies intended to enhance economic outcomes.
- Economics students will develop competence in quantitative methods and computing methods.
- Economics students will be able to conceptualize and analyze problems using the tools of economic theory and communicate the results.

Required Core Courses
Course Number Title                  Units
ECON B2 Principles of Economics - Macro 3.0
ECON B1 Principles of Economics - Micro 3.0
MATH B22 Elementary Probability and Statistics 4.0
MATH B2 Basic Functions and Calculus for Business 4.0
-or-
MATH B6A Analytic Geometry/Calculus I 4.0
List A (any one of the following courses)
Course Number Title                  Units
BSAD B1 Financial Accounting 4.0
BSAD B2 Managerial Accounting 3.0
COMP B2 Introduction to Computer Information Systems 3.0
MATH B23 Finite Mathematics 3.0
MATH B6B Analytic Geometry/Calculus II 4.0
List B (any one of the following courses)
Course Number Title                  Units
MATH B6C Calculus III 4.0
MATH B6E Elementary Linear Algebra 3.0
Total required units:                20-22

Associate in Arts in Elementary Teacher Education for Transfer
The Associate in Arts in Elementary Teacher Education for Transfer degree is designed to prepare students for transfer to a California State University traditional or integrated teacher preparation program. The Associate in Arts in Elementary Teacher Education for Transfer degree incorporates the elementary subject matter competence requirements as established by the California Teacher Credentialing Commission and prepares students for the California Subject Examinations for Teachers (CSET) Multiple Subjects exam. Additionally, the degree may also serve as preparation for
The Associate in Arts in English for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in English or a similar major. The Associate in Arts in English for Transfer degree provides a study of literature and expository writing. English majors will be able to analyze literary work and will be able to demonstrate an understanding of and an ability to describe ways in which literature reflects historical, intellectual, and cultural contexts, as well as aesthetic tastes; English majors will be able to evaluate literature and expository and argumentative papers and essays through application of critical thinking techniques; and they will be able to write logical and coherent expository and argumentative papers, essays, summaries, and paraphrases using correctly the standard conventions of written English. Many employers value the writing and critical thinking skills acquired by English majors.

## Program Learning Outcomes

Upon successful completion, the student will:

- evaluate elements of diversity and diverse learning styles in student populations.
- analyze how teachers and schools can promote learning for all students.
- demonstrate proficiency in 14 content areas required for subject matter competency for elementary teachers.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B11</td>
<td>Concepts of Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B1</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC B24</td>
<td>Early Field Experience for Elementary Teachers</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B1A</td>
<td>Expository Composition</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B1B</td>
<td>Introduction to Types of Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10</td>
<td>Introduction to Earth Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10L</td>
<td>Earth Science Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>GEOG B5</td>
<td>World Regional Geography</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B1</td>
<td>World History from the Origins of Civilizations to 1600</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17A</td>
<td>History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B4A</td>
<td>Mathematics for Elementary School Teaching</td>
<td>4.0</td>
</tr>
<tr>
<td>PHSC B12</td>
<td>Physical Science</td>
<td>4.0</td>
</tr>
<tr>
<td>POLS B1</td>
<td>American Government: National, State and Local</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### List A: select one (4 units)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B3</td>
<td>Argumentative Writing and Critical Thinking Through Literature</td>
<td>4.0</td>
</tr>
<tr>
<td>PHIL B9</td>
<td>Critical Thinking and Advanced Composition</td>
<td>4.0</td>
</tr>
</tbody>
</table>

### List B: select one (3 units)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B1</td>
<td>Art Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B22</td>
<td>Music Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B20</td>
<td>Introduction to Theatre</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### List C: select one (3 units)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information</td>
<td></td>
</tr>
</tbody>
</table>

### List A (any two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B5A</td>
<td>Survey of English Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B5B</td>
<td>Survey of English Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B20A</td>
<td>Survey of World Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B30A</td>
<td>Survey of American Literature</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 53
degrees:
The following is required for the completion of all AA-T or AS-T

**Required Core Skills**

With a strong general education in math and science, introduction to

desires to be employed within the local petroleum industry working

The major in geology is appropriate for interested students who

provides solid preparation that is appropriate for a variety of

geology and serves the diverse needs of students who wish to obtain

a broad and an in-depth understanding of the geological sciences.

Additionally, the Associate of Science in Geology Degree for Transfer

allows students to learn the fundamental principles and practices

of geology in order to create a solid foundation for their future

personal, academic, or vocational endeavors.

The Associate of Science in Geology Degree for Transfer also

provides solid preparation that is appropriate for a variety of

scientific disciplines.

The major in geology is appropriate for interested students who
desire to be employed within the local petroleum industry working

as a geology technician or seeking a solid science background for

the teaching profession. The major is designed to provide students

with a strong general education in math and science, introduction to

physical and historical geology, as well as a general introduction to

basic engineering skills.

The following is required for the completion of all AA-T or AS-T

degrees:

1. The completion of 60 semester units that are eligible for

transfer to the California State University, including both of

the following:

   • The Intersegmental General Education Transfer
     Curriculum (IGETC) or the California State University –
     Breadth Requirements.

   • A minimum of 18 semester units in a major area of
     emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a
   'C' or better. A 'P' (Pass) grade is not acceptable for courses
   in the major.

**Program Learning Outcomes**

Upon successful completion, students will be able to:

- demonstrate the knowledge of and recognize the processes
  that explain natural phenomena.

- apply the methodologies of science when approaching a
  problem.

- apply logical quantitative and qualitative reasoning in solving
  problems or analyzing arguments.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B10</td>
<td>Introduction to Shakespeare</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B41A</td>
<td>Introduction to Creative Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B21</td>
<td>African-American Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B24</td>
<td>Latino/a Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B27</td>
<td>The Bible as Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B28</td>
<td>Classical Mythology</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B41A</td>
<td>Introduction to Creative Writing</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 19

**Associate in Science in Geology for Transfer**

The Associate in Science in Geology Degree for Transfer is designed
to provide students a clear pathway to the CSU Geology major and

completion of the Geology baccalaureate degree, to grant guaranteed

admission to a CSU to a similar major, with junior standing, and the

ability to complete their remaining requirements within 60 semester

or 90 quarter units.

The Associate in Science in Geology Degree for Transfer provides

a path to students who wish to transfer to a CSU in the field of

geology and serves the diverse needs of students who wish to obtain

a broad and in-depth understanding of the geological sciences.

Additionally, the Associate of Science in Geology Degree for Transfer

allows students to learn the fundamental principles and practices

of geology in order to create a solid foundation for their future

personal, academic, or vocational endeavors.

The Associate of Science in Geology Degree for Transfer also

provides solid preparation that is appropriate for a variety of

scientific disciplines.

The major in geology is appropriate for interested students who
desire to be employed within the local petroleum industry working

as a geology technician or seeking a solid science background for

the teaching profession. The major is designed to provide students

with a strong general education in math and science, introduction to

physical and historical geology, as well as a general introduction to

basic engineering skills.

The following is required for the completion of all AA-T or AS-T

degrees:

1. The completion of 60 semester units that are eligible for

transfer to the California State University, including both of

the following:

   • The Intersegmental General Education Transfer
     Curriculum (IGETC) or the California State University –
     Breadth Requirements.

   • A minimum of 18 semester units in a major area of
     emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a
   'C' or better. A 'P' (Pass) grade is not acceptable for courses
   in the major.

**Program Learning Outcomes**

Upon successful completion, students will be able to:

- Students will analyze major forces, events, and people
  instrumental in shaping human history.

- Students will examine past social/cultural value systems
  which have formed a basis for human beliefs and challenges
to those beliefs.
• Students will analyze the various racial, ethnic and social sub/groups which have played a role in the shaping of human history.
• Students will evaluate historical evidence using both primary and secondary sources.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST B17A</td>
<td>History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17B</td>
<td>History of the United States since 1870</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST B1</td>
<td>World History from the Origins of Civilizations to 1600</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B4A</td>
<td>European Civilization</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B2</td>
<td>History of the World (Since 1650)</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B4B</td>
<td>European Civilization</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List B (one course from each group)**

**Group 1**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST B1</td>
<td>World History from the Origins of Civilizations to 1600</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B2</td>
<td>History of the World (Since 1650)</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B20A</td>
<td>African American History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B20B</td>
<td>African American History/U.S.</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30A</td>
<td>Early Chicano History</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30B</td>
<td>History of Chicanos in the Southwest</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B33</td>
<td>Latin American History</td>
<td>3.0</td>
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</table>

**Group 2**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON B2</td>
<td>Principles of Economics-Macro</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B18</td>
<td>History of California</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS B1</td>
<td>American Government: National, State and Local</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Total required units**

18

**Associate in Arts in Journalism for Transfer**

The Associate in Arts in Journalism for Transfer degree is intended for those transfer-directed students who plan to complete an AA in Journalism because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate of Arts in Journalism for Transfer, students must complete 60 required semester units of CSU-transferable coursework which includes CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate of Arts in Journalism for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system.

Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   • A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

**Program Learning Outcomes**

Upon successful completion, the student will be able to:

• demonstrate the ability - through learned skills, critical thinking and organization - to perform the function of reporter, photographer or editor on a print and online publication.
• demonstrate how to conduct the process of reporting.
• demonstrate how to conduct the process of photojournalism and multimedia.
• discuss various forms of media and how they relate to society through historical and current knowledge of mass communication.
• demonstrate an understanding of journalism ethics and standards.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL B1*</td>
<td>Media and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B2</td>
<td>Beginning Reporting</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B27A</td>
<td>Newspaper Production for Reporters</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List A (any one of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL B15</td>
<td>Press Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B16</td>
<td>Multimedia Reporting</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B26</td>
<td>Newspaper Production/Editors</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**List A (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B17</td>
<td>Black and White Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B5*</td>
<td>Rhetoric and Argumentation</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B1*</td>
<td>Principles of Economics-Micro</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B2*</td>
<td>Principles of Economics-Macro</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Introduction to Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>POLS B2*</td>
<td>Comparative Government</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Total required units:**

18-20

**Associate in Arts in Kinesiology for Transfer**

The Associate in Arts in Kinesiology for Transfer (AA-T) is intended for all students who plan to complete an Associate in Arts in Kinesiology. This degree is especially valuable for those students planning on completing a bachelor's degree in Kinesiology at a CSU campus because the Associate in Arts in Kinesiology for Transfer guarantees admission to the CSU system (but not to a particular campus or major). In order to earn Associate in Arts in Kinesiology for Transfer, the students must complete 60 required semester units
of CSU-transferable coursework which includes the CSU General Education Breadth or IGETC General Education requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Kinesiology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   • A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Program Learning Outcomes**

Upon successful completion, the student will be able to:

- analyze the history, research, and current information in Kinesiology and their current applications.
- demonstrate and explain the basic anatomy and physiological principles at work in both sport performance and general fitness activities.
- demonstrate an understanding of the value and significance of physical activity for human development, human interactions and quality of life.
- demonstrate and describe the primary aspects of injury and trauma response as a first responder.
- recognize the principles of physical fitness development and maintenance as well as the body’s responses to physical activity.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B32</td>
<td>Human Anatomy and Physiology I</td>
<td>4.0</td>
</tr>
<tr>
<td>BIOL B33</td>
<td>Human Anatomy and Physiology II</td>
<td>4.0</td>
</tr>
<tr>
<td>PHED B42</td>
<td>Introduction to Kinesiology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Movement Based Courses (any three of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED B2SB</td>
<td>Aquatics: Beginning Swimming</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B3ADP</td>
<td>Adaptive Physical Education</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6A</td>
<td>Coeducational Team and Individual Activity: Archery</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6BB</td>
<td>Coed Team and Individual Activities: Basketball</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6BLB</td>
<td>Coeducational and Individual Activity: Beginning Ballet</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6FCX</td>
<td>Coeducational and Individual Activity: Fitness Center</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**List A (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B22</td>
<td>Elementary Probability and Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>CHEM B11</td>
<td>Introduction to General, Organic, and Biochemistry</td>
<td>5.0</td>
</tr>
<tr>
<td>PHYS B2A</td>
<td>General Physics-Mechanics and Heat</td>
<td>4.0</td>
</tr>
<tr>
<td>PHED B36</td>
<td>First Aid and CPR</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 21-24

**Associate of Science in Mathematics for Transfer**

Associate of Science in Mathematics for Transfer is intended for all students who plan to complete an AS in Mathematics. This degree is especially valuable for those students planning on completing a bachelor’s degree in Mathematics at a CSU campus because the Associate of Science in Mathematics for Transfer guarantees admission to the CSU system (but not to a particular campus or major).

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   • A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Program Learning Outcomes**

Upon successful completion, the student will be able to:

- demonstrate an understanding of functions from multiple perspectives.
- use numerical, graphical, symbolic, and verbal representations to solve problems and communicate with others.
- use technology as a tool for exploring mathematical concepts.
- demonstrate an ability to work with mathematical abstractions, analyze mathematical relationships, make plausible conjectures, and develop proofs.
- synthesize mathematical knowledge.
Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**List A**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6D</td>
<td>Ordinary Differential Equations</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6E</td>
<td>Elementary Linear Algebra</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 18

**Associate in Arts in Music for Transfer**

Students who plan to major or minor in music should commit themselves to the highest possible level of proficiency in theory, piano, literature, group performance, and applied (individual) instruction in their performance area. Students should take the required courses in music and complete courses in general education for the transfer college of their choice. Elective courses will both enrich the student's background and balance weak areas of knowledge for later academic growth.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtaining of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

**Program Learning Outcomes**

Upon successful completion, the student will be able to:

- demonstrate through successful group or individual performance acquired musical skills and knowledge appropriate to lower-division major preparation.
- apply logical quantitative and qualitative reasoning in solving physics problems or analyzing arguments.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC B12A</td>
<td>College Orchestra (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B13A</td>
<td>Jazz Ensemble (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B14A</td>
<td>College Choir (4 enrollments of 1.5 units each)</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Total required units: 23-25

**Associate in Science Physics for Transfer**

The goal of the program is to help students better understand the using physical world and the analysis of it through mathematical techniques using qualitative and quantitative reasoning. The coursework prepares students to think critically and apply reasoning skills to analyze real world situations. Students will be able to successfully transfer to any institution of higher learning armed with the foundation needed to pursue a baccalaureate degree in physics and will be prepared for careers as physicists in fields such as research, industry and education. Students will complete comprehensive curriculum to meet degree and transfer needs. This new degree builds upon the existing degree's emphasis in mathematical modeling, reasoning and critical thinking skills. In addition, it will guarantee transfer to a California State University in the physics major (or a similar or equivalent program). Upon completion of the degree, students will be able to:

- apply appropriate physical laws and mathematical techniques to analyze various physical situations;
- perform various scientific experiments and to analyze data to check agreement with theoretical predictions.

**Program Learning Outcomes**

Upon successful completion of this program, students will be able to:

- demonstrate a knowledge of and recognize the processes that explain physical phenomena.
- apply the methodologies of science when approaching a physics problem.
- apply logical quantitative and qualitative reasoning in solving physics problems or analyzing arguments.

The Associate in Science degree in Physics for Transfer is designed to prepare students to begin upper division course work in pursuit of a bachelor's degree (or ultimately a graduate degree) in physics upon transfer to a four-year college or university. Earning this degree should allow the student to become acquainted with the basic knowledge of physics contained in a calculus-based introductory physics sequence and the mathematics that supports that level of competency. The student will demonstrate proficiency in communication, critical thinking, quantitative problem solving, and laboratory science skills. This degree represents a step in a path preparing students for careers in any of the many branches of physics, physics education, and other technical fields, such as some engineering disciplines in which physics is an integral part. To achieve the Physics Associate in Science degree for transfer, the student will need to complete the following courses with at least a 'C' grade in each course. A 'P' (Pass) grade is not acceptable for courses in the major. In order to earn the Physics AS-T, students must complete 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AS-T will be required to complete more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission.
and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

### Required Core Courses - 24 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS B4A</td>
<td>Mechanics and Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4B</td>
<td>Heat, Electricity, Magnetism</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4C</td>
<td>Optics and Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total Units for the Major: 24

## Associate in Arts in Political Science for Transfer

The Associate in Arts in Political Science for Transfer degree is designed for students interested in gaining an understanding of the structure and functions in governments. This degree provides a foundation for further study for students planning to transfer into a baccalaureate program in political science. Successful completion of the Associate in Arts in Political Science for Transfer degree guarantees the student acceptance to a California State University (but not to a particular campus) to pursue a baccalaureate degree in Political Science. This degree may not be the best option for students intending to transfer to a particular CSU campus or a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University–Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

### Program Learning Outcomes

Upon successful completion, the student will be able to:

- Students will demonstrate their understanding of the relevance of state and local politics, determining and developing an objective appraisal of major trends in social, economic, and political life.
- Students will evaluate the power relationships between legislative, executive and judicial branches of government.
- Students will compare and contrast the factors that determine the emergence of republican or authoritarian systems of governance.
- Students will evaluate the influence of conflict and cooperation in the international bargaining process.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS B1</td>
<td>American Government: National, State and Local</td>
<td>3.0</td>
</tr>
</tbody>
</table>
| List A

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS B2</td>
<td>Comparative Government</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS B3</td>
<td>International Politics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Elementary Probability and Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
</tbody>
</table>

### List B (select two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS B12</td>
<td>Contemporary Issues in California State and Local</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B4A</td>
<td>European Civilization</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B4B</td>
<td>European Civilization</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17A</td>
<td>History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17B</td>
<td>History of the United States since 1870</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B18</td>
<td>History of California</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B2</td>
<td>Principles of Economics-Macro</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 19

## Associate in Arts in Psychology for Transfer

The Associate in Arts in Psychology for Transfer is intended for those transfer-directed students who plan to complete an Associate of Arts in Psychology because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Psychology for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Psychology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The major in psychology provides a study of the behavior of individuals and groups. The four-year degree in this major contributes to the foundational knowledge for positions in research and teaching, counseling, and working in clinical settings.

### To Achieve the Associate in Arts for Transfer

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Psychology Associate in Arts for Transfer degree.

### To Transfer Coursework

A minimum of 21 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.
To Achieve the Associate in Arts for Transfer degree.

To Transfer Coursework
A minimum of 19 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- demonstrate an understanding of the perspectives, theories, methods and core concepts of the social sciences.
- explain the major problems and issues in the disciplines in their contemporary, historical and geographical contexts.
- demonstrate an understanding of and an ability to describe the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B1A*</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B1B*</td>
<td>Biological Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5*</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>PSYC B6*</td>
<td>Research Methods for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Any two of the following courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B20*</td>
<td>Social Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B30*</td>
<td>Human Sexuality</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B33*</td>
<td>Psychology of Personal and Social Adjustment</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B40*</td>
<td>Introduction to Lifespan Psychology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Required Subtotal: 20.0
CSU General Education or IGETC Pattern: 39.0
Transfer Electives (as needed to reach 60 transferable units): 39.0
Degree Total: 60.0

*Courses with an asterisk can be double counted for General Education. No additional graduation requirements are required to complete this degree.

Associate in Arts in Sociology for Transfer

The Associate in Arts in Sociology for Transfer is intended for those transfer-directed students who plan to complete an AA in Sociology because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Sociology for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Sociology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. No additional graduation requirements are required to complete this degree.

Sociology is the study of groups, institutions, social relationships, and social problems in contemporary society. The sociology major prepares the student for careers in law, social work, human services, urban development, law enforcement agencies, public service, counseling, mental health, teaching, and community service. Students will be prepared for a baccalaureate degree in Sociology or a similar degree.

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B1*</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B2*</td>
<td>Problems of Modern Society</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5*</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>PSYC B6*</td>
<td>Research Methods for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Group A: Any two of the following courses: 7 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B2B*</td>
<td>Introduction to Gender</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B45*</td>
<td>Minority Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B1*</td>
<td>Introduction to Criminal Justice</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B20*</td>
<td>Social Psychology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Group B: Select two of the following courses: 6 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B36*</td>
<td>Sociology of the Chicano</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Additional Courses

Any transferable anthropology or psychology course: 3.0

Required Subtotal: 19.0
CSU General Education or IGETC Pattern: 39.0
Transfer Electives (as needed to reach 60 transferable units): 39.0
Degree Total: 60.0

*Courses with an asterisk can be double counted for General Education. No additional graduation requirements are required to complete this degree.

Associate in Arts in Spanish for Transfer

The Associate in Arts in Spanish for Transfer degree provides a linguistic study of the language and an in-depth look into the culture of the Spanish-speaking world. The objective of the program is to provide students with opportunities to obtain an AA degree in
Spanish, transfer to a four-year college, and achieve their academic goals. Graduates of this program will be better prepared for employment in both academic and non-academic fields, such as schools, corporations, business entities, and not-for-profits.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breaith Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtaining of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

Departmental placement evaluation determines the course level where individual students begin the core courses. Credit or placement equivalent to two years of college level Spanish is required. If a student places out of any course and is not awarded units for that course, the student will need additional coursework to reach at least 19 total units in the major. Due to differences in unit values, it may be necessary to substitute two 3 unit courses for each 4 unit required core course not taken.

Program Learning Outcomes
Upon successful completion, students will be able to:

- Speaking: Students will demonstrate the ability to speak using appropriate grammatical forms as well as vocabulary appropriate to the level of those students who are seeking an AA-T degree in Spanish. They will show this through dialogues, prepared presentations, impromptu conversations with other students and the professor.
- Comprehension: Students will demonstrate the ability to understand spoken Spanish as evident in responses through prepared dialogues and presentations as well as impromptu conversations with other students and the professor. Students will also demonstrate understanding of spoken Spanish on graded exams and directed interview questions.
- Writing: Students will demonstrate the ability to write using appropriate grammatical forms as well as vocabulary appropriate to the level of those students who are seeking an AA-T degree in Spanish. They will show this through informal writing and formal writing.
- Reading: Students will exhibit reading comprehension of informal and formal written texts including informal letters or short essays as well as literature and news articles from various parts of the Spanish speaking world.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN B1</td>
<td>Elementary Spanish I</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B2</td>
<td>Elementary Spanish II</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B3</td>
<td>Intermediate Spanish I –or-</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B35</td>
<td>Spanish for Heritage Speakers I –or-</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B4</td>
<td>Intermediate Spanish II –or-</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B36</td>
<td>Spanish for the Heritage Speakers II</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Substitution Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B37</td>
<td>Survey of Art – Latin America</td>
<td>3.0</td>
</tr>
<tr>
<td>Any course(s) from List A not already used</td>
<td>3-9</td>
<td></td>
</tr>
</tbody>
</table>

List A (any one of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B24</td>
<td>Latino/a Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30A</td>
<td>Early Chicano History</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30B</td>
<td>History of Chicanos in the Southwest</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B33</td>
<td>Latin American History</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B36</td>
<td>Sociology of the Chicano</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B45</td>
<td>Minority Relations</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 19-21

Associate of Arts in Studio Arts for Transfer

The Associate in Arts in Studio Arts for Transfer is intended for those transfer-directed students who plan to complete an AA in Art because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education Breadth or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Studio Arts for Transfer degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The Bakersfield College Art Department wishes to expose students to study in a wide variety of media, and to prepare them to make aesthetic contributions by becoming citizens who are visually literate, culturally aware, skilled in creative problem-solving, and aesthetically sensitive.

Program level outcomes - the successful student will be able to:
- demonstrate an understanding of the principles, elements, and language of art/design.
- demonstrate the ability to critique their own work, as well as the work of other students; and defend their creative choices verbally.
- demonstrate an understanding of a portfolio or "body of work."

To Achieve the Associate of Arts Degree for Transfer

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Studio Arts Associate of Arts Degree for Transfer.

Required Core - 12 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B37</td>
<td>Survey of Western Art II*</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B4</td>
<td>Two Dimensional Design*</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B5</td>
<td>Three Dimensional Design</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B2</td>
<td>Drawing I*</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List A - Choose 3 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>
List B - Curricular Areas - Choose 9 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B8</td>
<td>Figure Drawing I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B6</td>
<td>Acrylic Painting I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B10</td>
<td>Ceramics I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B13</td>
<td>Sculpture I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B20</td>
<td>Digital Art – Vector Art</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B17</td>
<td>Black and White Photography</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**A student can choose any other “Local studio course” or “Second Semester course” to complete the 9 unit “Curricular” requirement.

Local Studio Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B16</td>
<td>Digital Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B24</td>
<td>Digital Art - Raster Art</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B25</td>
<td>Typography</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B42</td>
<td>Graphic Design</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Second Semester Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B9</td>
<td>Figure Drawing II</td>
<td>3.0</td>
</tr>
<tr>
<td>AR B11</td>
<td>Ceramics II</td>
<td>3.0</td>
</tr>
</tbody>
</table>


Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA B20</td>
<td>Introduction to Theatre</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B1</td>
<td>Introduction to Acting</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B27</td>
<td>Acting Theatre Laboratory</td>
<td>1-3</td>
</tr>
<tr>
<td>THEA B28</td>
<td>Technical Theatre Laboratory</td>
<td>1.0</td>
</tr>
</tbody>
</table>

List A (any three of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA B2A</td>
<td>Elements of Acting</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B2B</td>
<td>Elements of Acting</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B14</td>
<td>Introduction to Stage Costume</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B16</td>
<td>Stagecraft</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B27</td>
<td>Acting Theatre Laboratory</td>
<td>1-3</td>
</tr>
<tr>
<td>THEA B28</td>
<td>Technical Theatre Laboratory</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Total required units: 18

Associate in Arts in Theatre Arts for Transfer

The Associate in Arts in Theatre Arts for Transfer Degree (AA-T in Theatre Arts) is designed to provide students a clear transfer pathway to CSU campuses that offer bachelor’s degrees in Theatre Arts. Ed Code Section 66746-66749 states that students earning the Associate in Arts in Theatre Arts for Transfer Degree (AA-T in Theatre Arts) will be granted priority for admission as a Theatre major to a local CSU, as determined by the CSU campus to which the student applies. This degree requires students to complete 60 CSU transferable units including completion of CSU or IGETC and 18 units in the major with a cumulative GPA of 2.0 or better. Title 5 requires that students earn a grade of ‘C’ or better in all major coursework. This degree provides students with an understanding and an appreciation for the art of theatre and includes courses in acting, technical theatre, rehearsal and performance as well as an introduction to the theatre and play analysis. Completion of this curriculum will provide preparation for future theatre studies. The Associate in Arts in Theatre Arts for Transfer Degree (AA-T in Theatre Arts) requires 18 units of which 9 units are in required core courses. An additional 9 units are in restricted electives from the categories below as indicated.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes

Upon successful completion, the student will be able to:

- demonstrate the ability to recognize, describe, and/or effectively produce various components of a performing art form.
- demonstrate an understanding and appreciate of the ways in which arts reflect historical, intellectual, and cultural contexts, as well as aesthetic tastes.
- demonstrate through successful group or individual performance acquired skills and knowledge appropriate to a particular performing art form.

Administration of Justice

Associate in Science in Administration of Justice for Transfer

The Associate in Science in Administration of Justice for Transfer degree (AS-T in Administration of Justice) is intended to prepare students to transfer to CSU campuses that offer bachelor’s degrees in Administration of Justice or Criminal Justice. Students who complete this degree will receive “priority admission with junior status to the California State University system”. This degree requires students to complete 60 CSU transferable units including completion of CSU GE or IGETC and 18-20 units in the major with a cumulative GPA of 2.0 or better. Title 5 requires that students earn a grade of ‘C’ or better in all major coursework. A ‘P’ (Pass) grade is not acceptable for courses in the major. There are no additional graduation requirements. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.
### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to identify, analyze, and apply the fundamental theories and concepts underlying the American Criminal Justice system.
- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to identify and describe the operational elements of the major components comprising the American Justice system.
- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to identify, analyze, and apply basic legal principles and rules to factual situations.
- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to identify and implement the principles and procedures utilized in legitimate scientific and criminal investigation.
- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to demonstrate multicultural awareness and respect for constitutional and human rights.
- A student who successfully completes the course requirements in Criminal Justice with a grade of C or better will be able to demonstrate respect for the dignity and humanity of victims, perpetrators, and wrongfully convicted persons.

### Required Core: (6 units)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B1</td>
<td>Introduction to Criminal Justice</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B2</td>
<td>Criminal Law</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### List A Select two (6 units)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B3</td>
<td>Introduction to Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B4</td>
<td>Constitutional Criminal Procedure</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B5</td>
<td>Community Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B8</td>
<td>Criminal Investigation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B9</td>
<td>The Juvenile Justice System</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B12</td>
<td>Forensic and Scientific Aspects of Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B21</td>
<td>Introduction to Correctional Administration</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### List B select two (6-8 units)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>5.0</td>
</tr>
<tr>
<td>PSYC B1A</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Required Units: 18-20

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>-or-</td>
<td>SOIL B1</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B1</td>
<td>Principles of Crop Production</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>AGBS B6</td>
<td>Agricultural Sales and Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>-or-</td>
<td>COMP B2</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B2</td>
<td>Forage Crops</td>
<td>3.0</td>
</tr>
<tr>
<td>-or-</td>
<td>NRES B1</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B1</td>
<td>Introduction to Animal Science</td>
<td>3.0</td>
</tr>
<tr>
<td>-or-</td>
<td>ANSC B2</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B4</td>
<td>Dairy Production</td>
<td>3.0</td>
</tr>
<tr>
<td>-or-</td>
<td>ANSC B10</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>-or-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 26
### Agriculture Business Management Associate in Arts

**To Achieve the Associate in Arts**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Agriculture Business Management Associate in Arts.

**To Transfer Coursework**

A minimum of 20 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**About the Agriculture Business Management Major**

The Agriculture Business Management major is made up of agriculture and agricultural business courses pertaining to the industry.

Many jobs in agriculture require training in business courses such as accounting, computers and salesmanship. Career opportunities include farm management, accounting, marketing of agricultural products, sales and services. The Agriculture Business Management Associate in Arts degree is recommended for students planning to transfer to a four-year college.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate specific skills in agriculture business.
- understand production and marketing as needed for employment.
- demonstrate managerial and leadership abilities such as public speaking skills and record keeping abilities in the field of agriculture business.
- master skills in agriculture business such as statistical methods to analyze commodity markets and economic data, explain how external forces such as law, environmental regulation, and government policies impact agribusiness decision making.
- demonstrate in exams or work samples the ability to explain microeconomic and macroeconomic, analyze and evaluate agribusiness problems and management decisions, and perform basic algebra and introductory calculus operations in the context of applied economic analysis and optimization.
- develop strong communication skills, both oral and written, for the purpose of conveying the results of business analyses in a clear, persuasive, and informative manner.
- learn to apply the concepts, principles, and terminology of business (economics, management, finance, marketing, and others) to real-world issues and opportunities in the agricultural and life sciences industries.
- demonstrate specific skills in agriculture business, such as record keeping, marketing, and problem solving.
- demonstrate skills in fundamental agribusiness principles and analysis techniques into logical decision-making constructs.
- develop strong communication skills, both oral and written, for the purpose of conveying the results of business analyses in a clear, persuasive, and informative manner.
- learn to apply the concepts, principles, and terminology of business (economics, management, finance, marketing, and others) to real-world issues and opportunities in the agricultural and life sciences industries.
- demonstrate specific skills in agriculture business, such as record keeping, marketing, and problem solving.

**Total Units: 20**

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>AGBS B6</td>
<td>Agricultural Sales and Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B1</td>
<td>Principles of Crop Production</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B1</td>
<td>Introduction to Forestry</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B1</td>
<td>Introduction to Animal Science</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Agriculture Business Management Associate in Science

**To Achieve the Associate in Science**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Agriculture Business Management Associate in Science.

**To Transfer Coursework**

A minimum of 32 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- master skills in agriculture business.
- demonstrate specific skills in agriculture business.
- demonstrate managerial and leadership abilities such as public speaking skills and record keeping abilities in the field of agriculture business.
- understand production and marketing as needed for employment.
- have an understanding of the business and economics of the agricultural industry.
- have an understanding of the business and economics of the agricultural industry.

**Total Units: 32**

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>AGBS B6</td>
<td>Agricultural Sales and Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B1</td>
<td>Principles of Crop Production</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B2</td>
<td>Forage Crops</td>
<td>3.0</td>
</tr>
<tr>
<td>NRES B1</td>
<td>Range Management</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B1</td>
<td>Introduction to Animal Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B2</td>
<td>Beef Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B4</td>
<td>Dairy Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B10</td>
<td>Horse Production</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Animal Science Certificate of Achievement

Certificate prepares students for entry level employment in food animal production and animal management and care. This program prepares students for careers in Animal Science and entry level production jobs such as feed mill technician, beef technician, swine technician, poultry technician, animal groomer; small animal assistant technician, and pet store employee.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Animal Science Certificate of Achievement.

To Transfer Coursework
A minimum of 30 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• identify and implement sustainable livestock management practices that will improve livestock quality, provide efficacious management, protect the natural resources, and ensure economic viability of the livestock industry.
• demonstrate specific skills in animal science such as production, genetics, and nutrition within the animal science discipline needed for employment.
• demonstrate a working knowledge of animal production life cycles to develop a ranch management calendar that incorporates scientifically based management decisions and the latest technological advances in livestock husbandry.
• identify and evaluate livestock anatomy and physiology and relate form to function.

Total Units: 30

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B1</td>
<td>Introduction to Animal Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B8</td>
<td>Small Animal Diseases</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B6</td>
<td>Pharmacology for Veterinary Technician</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B88</td>
<td>Surgery, Dental and Anesthesiology for Veterinary Technicians</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B90</td>
<td>Emergency Medicine, Surgery/Nursing Procedures for Veterinary Technicians</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B92</td>
<td>Clinical Pathology for Veterinary Technicians</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B94</td>
<td>Caged Birds, Laboratory, and Exotic Animal Medicine</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B96</td>
<td>Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology</td>
<td>1.5</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Animal Science Associate in Arts

The Animal Science major prepares students for occupations in those areas of agriculture involving production, managing, and marketing of livestock. Both the scientific and practical aspects of the production of horse, beef, sheep, swine, dairy cattle and companion animals are stressed in the courses.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Animal Science Associate in Arts.

To Transfer Coursework
A minimum of 23 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• be able to identify animal contributions to human needs, demonstrate and understand animal behavior, and identify life cycles and biotechnological principles of animal production.
• demonstrate specific skills in animal science such as production, genetics, and nutrition within the animal science discipline needed for employment.
• demonstrate appropriate husbandry best practices to animals of economic value.
• develop problem solving skills for lifetime learning.
• understand the scientific method and design of experiments to test hypotheses and as such, experience the process of discovery.
• demonstrate problem solving and critical thinking skills, skills to make oral presentations, and fundamental knowledge in production and management.

Total Units: 24

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI B2</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B1</td>
<td>Introduction to Animal Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B2</td>
<td>Beef Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B3</td>
<td>Sheep Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B4</td>
<td>Dairy Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B6</td>
<td>Applied Animal Nutrition</td>
<td>4.0</td>
</tr>
<tr>
<td>ANSC B7</td>
<td>Animal Diseases</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B10</td>
<td>Horse Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B11</td>
<td>Livestock Selection and Evaluation</td>
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</tr>
<tr>
<td>ANSC B22</td>
<td>Animals and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ANSC B83</td>
<td>Introduction to Veterinary Technology</td>
<td>4.0</td>
</tr>
</tbody>
</table>

- or - indicates that the listed course can be substituted with any other listed course.

- or - indicates that the listed course can be substituted with any other listed course.

- or - indicates that the listed course can be substituted with any other listed course.
Animal Science
Associate in Science
The Animal Science major prepares students for occupations in those areas of agriculture that involve livestock production and related agribusinesses. Both the scientific and practical aspects of the production of horse, beef, sheep, swine, dairy cattle, poultry, and companion animals are the focus of courses. Career opportunities in Animal Science include livestock production, feeds industry sales, veterinary assistant, pharmaceutical sales, ranch/farm management, pet care and retail sales.

To Achieve the Associate in Science
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Animal Science Associate in Science.

To Transfer Coursework
A minimum of 26 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate AI procedures, proper record keeping in the field of animal science, and skills in day to day animal production such as proper care, feeding, and reproduction.
- be able to practice proper basic principles of animal safety, evaluate performance such as growth and feed conservation.
- demonstrate specific skills in animal science such as production, genetics, and nutrition within the animal science discipline needed for employment.
- identify conformation qualities in cattle, sheep, and swine.

Total Units: 26

Required Courses
Course Number | Title                          | Units
AGBS B2       | Agricultural Economics         | 3.0
AGRI B1       | Agriculture, Environment and Society | 3.0
ANSC B1       | Introduction to Animal Science | 3.0
WEXP B248     | Occupational Work Experience Education | 3.0
AGRI B49      | Agriculture Leadership Training | 2.0

Select 6 units from the following
Course Number | Title                                    | Units
ANSC B2       | Beef Production                          | 3.0
ANSC B3       | Sheep Production                         | 3.0
ANSC B4       | Dairy Production                         | 3.0
ANSC B10      | Horse Production                         | 3.0
ANSC B5       | Swine Production                         | 3.0

Environmental Horticulture Certificate of Achievement
The Environmental Horticulture Certificate of Achievement is designed for the student desiring specialized training in order to enter the workforce in the least amount of time.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Environmental Horticulture Certificate of Achievement.

To Transfer Coursework
A minimum of 29 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in environmental horticulture classes for employment that will enhance opportunities and success in the horticulture industry in the 21st century.
- master academic proficiency and demonstrate specific skills within environmental horticulture disciplines needed for employment.
- be able to identify regional trees and plants and their use in the landscape.

Total Units: 29

Required Courses
Course Number | Title                                | Units
CRPS B3       | Integrated Pest Management            | 3.0
ORNH B1       | Introduction to Ornamental Horticulture | 3.0
ORNH B2       | Fundamentals of Nursery Management and Plant Production | 3.0
ORNH B3       | Landscape Installation and Maintenance | 3.0
ORNH B4       | Plant Propagation                     | 3.0
ORNH B6       | Ornamental Plant Identification - Ground Covers, Vines, and Dwarf Shrubs | 3.0
ORNH B7       | Ornamental Plant Identification - Large Shrubs, Small Trees, Large Trees & Palms | 3.0
ORNH B8       | Introduction to Landscape Design      | 3.0
WEXP B248     | Occupational Work Experience Education | 3.0
AGRI B49      | Agriculture Leadership Training       | 2.0
university. Career opportunities include the horticulture business, retail and wholesale nursery, landscape design, and the floral industry.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Environmental Horticulture Associate in Arts.

To Transfer Coursework
A minimum of 21 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in environmental horticulture classes for employment that will enhance opportunities and success in the horticulture industry in the 21st century.
- master academic proficiency and demonstrate specific skills within environmental horticulture disciplines needed for employment.
- master skills needed for baccalaureate level education or obtain a certificate.

Total Units: 21

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>ORNH B1</td>
<td>Introduction to Ornamental Horticulture</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B4</td>
<td>Plant Propagation</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B6</td>
<td>Ornamental Plant Identification - Ground Covers, Vines, and Dwarf Shrubs</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B7</td>
<td>Ornamental Plant Identification - Large Shrubs, Small Trees, Large Trees and Palms</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Environmental Horticulture Associate in Science
The Environmental Horticulture Associate in Science degree is designed for the student desiring to enter the workforce after completing one year of college. Career opportunities include the horticulture business, retail and wholesale nursery, landscape design, and the floral industry in the 21st century.

To Achieve the Associate in Science
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Environmental Horticulture Associate in Science.

To Transfer Coursework
A minimum of 33 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in environmental horticulture classes for employment that will enhance opportunities and success in the horticulture industry in the 21st century.
- master academic proficiency and demonstrate specific skills within environmental horticulture disciplines needed for employment.
- master skills needed for baccalaureate level education or obtain a certificate.

Total Units: 33

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>ORNH B1</td>
<td>Introduction to Ornamental Horticulture</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B2</td>
<td>Fundamentals of Nursery Management and Plant Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B3</td>
<td>Landscape Installation and Maintenance</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B4</td>
<td>Plant Propagation</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B6</td>
<td>Ornamental Plant Identification - Ground Covers, Vines, and Dwarf Shrubs</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B7</td>
<td>Ornamental Plant Identification - Large Shrubs, Small Trees, Large Trees and Palms</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B8</td>
<td>Introduction to Landscape Design</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Forestry Certificate of Achievement
The Certificate of Achievement in Forestry is designed for students desiring to enter the workforce after completing one year of college. Many technician level careers are available in the forestry/natural resources/wildlife fields. Career opportunities include Forestry, natural resources, wildlife, parks and outdoor recreation, fisheries, rangeland and watershed technician positions.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Forestry Certificate of Achievement.

To Transfer Coursework
A minimum of 33 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate managerial and leadership abilities in agriculture classes for employment that will enhance opportunities and success in the agriculture industry in the 21st century.
- master skills needed for baccalaureate level education or obtain a certificate.
- demonstrate specific skills within agriculture disciplines needed for employment.

Total Units: 33

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B1</td>
<td>Introduction to Forestry</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B6</td>
<td>Forestry Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>1.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
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</table>
Select 12 units from the following

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FORE B3</td>
<td>Wildlife Management</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B4</td>
<td>Wildlife Law Enforcement</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B5</td>
<td>Identification of California Wildlife</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B7</td>
<td>Wildland Fire Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>NRES B1</td>
<td>Range Management</td>
<td>3.0</td>
</tr>
<tr>
<td>NRES B2</td>
<td>Parks and Outdoor Recreation</td>
<td>3.0</td>
</tr>
<tr>
<td>BIOL B11</td>
<td>Concepts of Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Forestry Associate in Arts

The program provides a broad general experience in the arts and science to develop an individual with a well-rounded education, and a core of basic courses which furnish the student with a perspective of the scientific and professional area of forestry, natural resources, fisheries and wildlife. The pre-forestry, resource conservation and wildlife management program at Bakersfield College should conform to the recommended program as prescribed by the school to which the student wishes to transfer. Students planning to go to work after completing a two-year degree should complete the Associate in Science degree and not the Associate in Arts degree. Career opportunities include forestry, fishing industries and wildlife management.

To Achieve the Associate in Arts

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Forestry Associate in Arts.

To Transfer Coursework

A minimum of 24 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in agriculture classes for employment that will enhance opportunities and success in the agriculture industry in the 21st century.
- master skills needed for baccalaureate level education or obtain a certificate.
- demonstrate specific skills within agriculture disciplines needed for employment.

Total Units: 24

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGR B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B6</td>
<td>Forestry Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B1</td>
<td>Introduction to Forestry</td>
<td>3.0</td>
</tr>
</tbody>
</table>
- or-                                      | FORE B3       | Wildlife Management                         | 3.0   |
- or-                                      | FORE B4       | Wildlife Law Enforcement                     | 3.0   |
- or-                                      | FORE B5       | Identification of California Wildlife        | 3.0   |
| FORE B7       | Wildland Fire Management                    | 3.0   |
| CRPS B3       | Integrated Pest Management                  | 3.0   |
| COMP B2       | Introduction to Computer Information Systems| 3.0   |
| COMP B5       | Introduction to Microsoft Office            | 3.0   |
| WEXP B248     | Occupational Work Experience Education      | 1.0   |
| AGRI B49      | Agriculture Leadership Training             | 2.0   |

Forestry Associate in Science

The program provides a broad general experience in the arts and science to develop an individual with a well-rounded education, and a core of basic courses which furnish the student with a perspective of the scientific and professional area of forestry, natural resources, fisheries and wildlife. The pre-forestry, resource conservation and wildlife management program at Bakersfield College should conform to the recommended program as prescribed by the school to which the student wishes to transfer. Students planning to go to work after completing a two-year degree should complete the Associate in Science degree. Career opportunities include forestry, fishing industries and wildlife management.

To Achieve the Associate in Science

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Forestry Associate in Science.

To Transfer Coursework

A minimum of 31 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in agriculture classes for employment that will enhance opportunities and success in the agriculture industry in the 21st century.
- master skills needed for baccalaureate level education or obtain a certificate.
- demonstrate specific skills within agriculture disciplines needed for employment.

Total Units: 31

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGR B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B1</td>
<td>Introduction to Forestry</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B6</td>
<td>Forestry Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>1.0</td>
</tr>
<tr>
<td>AGRI B49</td>
<td>Agriculture Leadership Training</td>
<td>2.0</td>
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</table>

Select 7 units from the following

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FORE B3</td>
<td>Wildlife Management</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B4</td>
<td>Wildlife Law Enforcement</td>
<td>3.0</td>
</tr>
</tbody>
</table>
To Achieve the Associate in Arts

This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops. Career opportunities in crop science include farm labor foreman, irrigation manager, seed lab technician, research technician, soils lab and pest control technician.

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Plant Science Certificate of Achievement.

To Transfer Coursework
A minimum of 24 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.
- master skills needed for baccalaureate level education or obtain a certificate

Total Units: 24

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
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</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B4</td>
<td>Plant Propagation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B1</td>
<td>Principles of Crop Production</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B2</td>
<td>Forage Crops</td>
<td>3.0</td>
</tr>
<tr>
<td>NRES B1</td>
<td>Range Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B4</td>
<td>Vegetable Production</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Plant Science Associate in Arts.

To Transfer Coursework
A minimum of 28 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.
- master skills needed for baccalaureate level education or obtain a certificate

Total Units: 25

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
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</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>ORNH B4</td>
<td>Plant Propagation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B1</td>
<td>Principles of Crop Production</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B2</td>
<td>Forage Crops</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B4</td>
<td>Vegetable Production</td>
<td>3.0</td>
</tr>
<tr>
<td>-or-</td>
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<td></td>
</tr>
</tbody>
</table>

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Plant Science Associate in Arts.

Plant Science - Crops Emphasis Associate in Arts

This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops. See also Environmental Horticulture. Career opportunities in Crop Science include truck and market farm management, orchard and vineyard management, horticulture pest control, low volume irrigation equipment supply and sales and agriculture research technician.

To Achieve the Associate in Arts

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Plant Science Associate in Arts.

To Transfer Coursework
A minimum of 28 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
- master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.
• master skills needed for baccalaureate level education or obtain a certificate

Total Units: 28

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
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</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
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<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>ORNH B4</td>
<td>Plant Propagation</td>
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</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
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<tr>
<td>CRPS B1</td>
<td>Principles of Crop Production</td>
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</tr>
<tr>
<td>CRPS B2</td>
<td>Forage Crops</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B4</td>
<td>Vegetable Production</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Plant Science - Horticulture Emphasis Associate in Arts**

This program provides instruction in the planting, growing, harvesting, and marketing of field, forage, and vegetable crops as well as irrigated and range pasture crops. See also Environmental Horticulture. Career opportunities in Crop Science include truck and market farm management, orchard and vineyard management, horticulture pest control, low volume irrigation equipment supply and sales, and agriculture research technician.

**To Achieve the Associate in Arts**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Plant Science Associate in Arts.

**To Transfer Coursework**

A minimum of 25 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

• demonstrate managerial and leadership abilities in plant science classes for employment that will enhance opportunities and success in the plant science industry in the 21st century.
• master academic proficiency and demonstrate specific skills within plant science disciplines needed for employment within the industry.
• master skills needed for baccalaureate level education or obtain a certificate

Total Units: 28

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBS B2</td>
<td>Agricultural Economics</td>
<td>3.0</td>
</tr>
<tr>
<td>SOIL B1</td>
<td>Introduction to Soil Science</td>
<td>3.0</td>
</tr>
<tr>
<td>AGRI B1</td>
<td>Agriculture, Environment and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B10</td>
<td>Plant Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>ORNH B4</td>
<td>Plant Propagation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRPS B3</td>
<td>Integrated Pest Management</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B2</td>
<td>Fundamentals of Nursery Management and Plant Production</td>
<td>3.0</td>
</tr>
<tr>
<td>ORNH B3</td>
<td>Landscape Installation and Maintenance</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Pre-Veterinary Medicine Option**

Students are referred to UC Davis School of Veterinary Medicine (www.vetmed.ucdavis.edu/students) and Western University School of Health Sciences, College of Veterinary Medicine (prospective. westernu.edu/veterinary/welcome-17) for the most current program information.
**Registered Veterinary Technician Job Skills Certificate**

This certificate prepares students for the California Veterinary Medical Board RVT Licensing Exam. Students must also complete the CVMB required clinic hours by working in a veterinary hospital/clinic. Course eligibility expires five years from the time it is completed for the state exam. Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Registered Veterinary Technicians Job Skills Certificate. Students who do not choose to become licensed RVT’s are still able to work in the field as Animal Health Technicians. Career opportunities include Veterinary Technician/Assistant, supply distributor/representative, retail/wholesale sales, and pet groomer.

To Achieve the Job Skills Certificate

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Registered Veterinary Technician Job Skills Certificate.

To Transfer Coursework

A minimum of 17.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in animal care procedures and skills required for employment and enhancement of opportunities and success in the veterinary/pet care industry.
- master academic proficiency in veterinary medicine needed to obtain a job skills certificate.
- improve program graduate success rates for passing California Veterinary Medical Board licensing exam.

**Total Units: 17.5**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC B83</td>
<td>Introduction to Veterinary Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>ANSC B84</td>
<td>Small Animal Diseases</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B85</td>
<td>Large Animal Diseases</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B86</td>
<td>Pharmacology for Veterinary Technicians</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B88</td>
<td>Surgery, Dental and Anesthesiology for Veterinary Technicians</td>
<td>1.5</td>
</tr>
<tr>
<td>ANSC B90</td>
<td>Emergency Medicine, Surgery/Nursing</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B92</td>
<td>Clinical Pathology for Veterinary Technicians</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B94</td>
<td>Caged Birds, Laboratory, and Exotic Animal Medicine</td>
<td>2.0</td>
</tr>
<tr>
<td>ANSC B96</td>
<td>Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Other Suggested Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL B6</td>
<td>American Deaf Culture</td>
<td>3.0</td>
</tr>
<tr>
<td>ASL B7</td>
<td>American Sign Language Literature</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**American Sign Language**

**American Sign Language Associate in Arts**

The major in American Sign Language provides a linguistic and grammatical study of the language and an in-depth look into the culture of deaf people. The objective of the program is to provide students with a foundation for achieving fluency and the opportunity to transfer to a four-year institution. With additional training, employment opportunities include interpreting, teaching and social service. If transferring to an institution other than UC or CSU, students should check with the receiving institution to ensure transferability of ASL courses as foreign language credit.

To Achieve the Associate in Arts

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an American Sign Language Associate in Arts.

To Transfer Coursework

A minimum of 20 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate the ability to use and recognize specific language elements in the use of a language.
- demonstrate an understanding of, and an ability to describe, the ways in which foreign languages reflect historical and cultural contexts.
- transmit a comprehensive knowledge of the cultural heritage being studied.
- differentiate and analyze an understanding of the diversity of human expression.

**Total Units: 20**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL B1</td>
<td>American Sign Language 1</td>
<td>4.0</td>
</tr>
<tr>
<td>ASL B2</td>
<td>American Sign Language 2</td>
<td>4.0</td>
</tr>
<tr>
<td>ASL B3</td>
<td>American Sign Language 3</td>
<td>4.0</td>
</tr>
<tr>
<td>ASL B4</td>
<td>American Sign Language 4</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Anthropology**

**Anthropology Associate of Arts Degree for Transfer**

The Associate of Arts in Anthropology Degree for Transfer is designed to provide students a clear pathway to the CSU anthropology major and completion of the anthropology baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units.

**Program Learning Outcomes**

Upon successful completion of this program, students will be able to:

- demonstrate an understanding of the biocultural nature of humanity through application of the core concepts, methods, and theories, in cultural anthropology, biological anthropology, and archaeology to explanations of human diversity.
- describe the origins and history of the discipline of American anthropology; its unique perspectives and approaches to the study of humanity; its ethical challenges; its dual nature as the humanistic/scientific study of humanity; and its uses and value in today’s world.
- critically evaluate information about human societies and origins without reliance on taken-for-granted assumptions,
The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:

1. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
2. A minimum of 18 semester units in a major area of emphasis, as determined by the Kern Community College District Board of Trustees.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the Kern Community College District Board of Trustees.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. ‘P’ (Pass) grade is not acceptable for courses in the major.

### Required Core - 9 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH B1</td>
<td>Physical Anthropology</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH B2</td>
<td>Introduction to Cultural Anthropology</td>
<td>3.0</td>
</tr>
<tr>
<td>ANTH B3</td>
<td>Introduction to Archeology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### List A - Select at least one, 3-4 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH B5</td>
<td>North American Indians</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
</tbody>
</table>

### List B - Select at least one, 4 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B6</td>
<td>Research Methods for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>GEOL B10</td>
<td>Introduction to Geology</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOL B10L</td>
<td>Introduction to Geology Laboratory</td>
<td>1.0</td>
</tr>
<tr>
<td>ERSC B10</td>
<td>Introduction to Earth Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10L</td>
<td>Introduction to Earth Science Laboratory</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### List C - Select at least one, 3 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B1</td>
<td>Art Appreciation</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Apprenticeship

Apprenticeship courses are designed for indentured apprentices under the Shelley-Maloney California Apprenticeship Standards Act. The Apprentice Agreement states that the student will supplement on-the-job training with related classroom instruction during each year of apprenticeship.

Apprentice classes meet three to eight hours per week and yield two to six units of credit. Joint Apprenticeship Committees administering each program are composed of representation from labor, management, California State Division of Apprenticeship Standards, and Bakersfield College. These committees adopt state approved standards for operation and assure equal opportunity for applicants. Related training in apprenticeable occupations, in addition to those listed below, may be offered as the need arises.

Information for entry into apprenticeship programs may be obtained from the college coordinator of apprenticeship training. Interested persons are encouraged to apply for any of these programs and may contact the Bakersfield College Apprenticeship Department at 661/395-4408 for further information.

### Program Learning Outcomes

Upon successful completion, the student will:

- successfully transition to the Journeyman level designation and certification, upon successful completion of requirements by the California Division of Apprenticeship Standards.
- demonstrate measures used by trades in use of tools, techniques, hands-on skills, and competencies for practices in specific occupations.
- identify and use equipment of specific trade in meeting standards for measurement and calibration.
- read, and apply specific trade instructions and design for construction or production outcomes as required by the specific trade practices and standards.

### Apprenticeship Associate in Arts

Effective Fall 2009 all courses used for meeting the requirements for degrees must be completed with a grade of ‘C’ or better.

<table>
<thead>
<tr>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apprenticeship classes for duration of apprentice period</td>
<td>12-45 (45 units maximum)</td>
</tr>
<tr>
<td>Work Experience</td>
<td>4-16  (4 semesters, 16 units max)</td>
</tr>
<tr>
<td>Related technical subjects as recommended by JAC</td>
<td>0-6</td>
</tr>
</tbody>
</table>

In addition, students must comply with the requirements as shown in the catalog under Graduation Requirements. The departmental counselor can assist the student in planning for the A.A. degree.
Apprenticeship Certificate of Achievement

Title: Apprenticeship classes for duration of apprentice period
Units: 12-45

Work Experience
Units: 16

Electives (as recommended by JAC) to reach 30 units total (if needed)
Units: 4-16

Architecture

Architectural Computer Aided Drafting Job Skills Certificate

This certificate covers the principles of architectural computer aided drafting to include basic 2D and 3D AutoCAD application as well as BIM related software covering architectural practices including both residential and light commercial working documents. Emphasis is also placed on architectural delineation using software.

To Achieve the Job Skills Certificate

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Architectural CAD Job Skills Certificate.

To Transfer Coursework

A minimum of 11 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.
- demonstrate problem solving skills used in industrial design and product development.

Total Units: 11

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>ARCH B30</td>
<td>Residential Building Information Modeling</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B22</td>
<td>Architectural Design Fundamentals II</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B33</td>
<td>Architectural Computer Practice</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Architectural Drafting Associate in Science

This degree covers the principles of architectural CAD to include basic 2D and 3D AutoCAD application as well as BIM related software covering architectural practices including both residential and light commercial working documents. Emphasis is also placed on architectural delineation using software.

To Achieve the Associate in Science

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Architectural Drafting Associate in Science.

To Transfer Coursework

A minimum of 40.5 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate proficiency in technical skills required for employment in the architecture industry.
- demonstrate problem solving skills used in architectural design.
- demonstrate a deep understanding of the core material required for transfer to a four-year university architectural degree program or for certification in architecture.

Total Units: 40.5

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH B1</td>
<td>Introduction to Architecture and Environmental Design</td>
<td>1.5</td>
</tr>
<tr>
<td>ARCH B6</td>
<td>Materials of Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B11</td>
<td>Design and Perspective Drawing</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B12</td>
<td>Design Drawing and Color</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B16</td>
<td>Digital Tools for Graphics Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B21</td>
<td>Architectural Design Fundamentals I</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B22</td>
<td>Architectural Design Fundamentals II</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B30</td>
<td>Residential Building Information Modeling</td>
<td>4.0</td>
</tr>
<tr>
<td>ARCH B33</td>
<td>Architectural Computer Practice</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B1A</td>
<td>Precalculus I</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Art

Studio Arts

Associate of Arts Degree for Transfer

The Associate in Arts in Studio Arts for Transfer is intended for those transfer-directed students who plan to complete an AA in Art because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the degree, students must complete a maximum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education Breadth or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Studio Arts for Transfer degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The Bakersfield College Art Department wishes to expose students to study in a wide variety of media, and to prepare them to make societal contributions by becoming citizens who are visually literate, culturally aware, skilled in creative problem-solving, and aesthetically sensitive.

Program level outcomes - the successful student will be able to:

- demonstrate an understanding of the principles, elements, and language of art/design.
• demonstrate the ability to critique their own work, as well as the work of other students; and defend their creative choices verbally.
• demonstrate an understanding of a portfolio or “body of work.”

To Achieve the Associate of Arts Degree for Transfer

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Studio Arts Associate of Arts Degree for Transfer.

Required Core - 12 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B36</td>
<td>Survey of Western Art II*</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B4</td>
<td>Two Dimensional Design*</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B5</td>
<td>Three Dimensional Design</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B2</td>
<td>Drawing I *</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List A - Choose 3 Units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B35</td>
<td>Survey of Western Art I*</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B37</td>
<td>Survey of Art – Latin America*</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List B - Curricular Areas - Choose 9 Units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B8</td>
<td>Figure Drawing I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B6</td>
<td>Acrylic Painting I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B10</td>
<td>Ceramics I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B13</td>
<td>Sculpture I</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B20</td>
<td>Digital Art - Vector Art</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B17</td>
<td>Black and White Photography</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**A student can choose any other “Local studio course” or “Second Semester course” to complete the 9 unit “Curricular” requirement.

Local Studio Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B16</td>
<td>Digital Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B24</td>
<td>Digital Art - Raster Art</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B25</td>
<td>Typography</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B42</td>
<td>Graphic Design</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Second Semester Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B9</td>
<td>Figure Drawing II</td>
<td>3.0</td>
</tr>
<tr>
<td>AR B11</td>
<td>Ceramics II</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Category

Units in Major: 24.0
CSU GE Breadth: 39.0
Possible double counting of GE’s: 12.0
Degree Total: 60.0

*Courses with an asterisk can be double counted for General Education

No additional local requirements for this degree will be imposed.

Graphic Design Certificate of Achievement

The program is designed to prepare students for entry level positions in graphic design related fields such as: advertising, graphic design, illustration, and digital imaging.

The core learned disciplines are the principles of design, an understanding of the visual elements, exposure to art and design history, conceptual visual problem solving, and the production of a portfolio using industry-standard software and processes.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a “C” grade in each course, a student will be awarded a Certificate of Achievement in Graphic Design.

Program Learning Outcomes

• At the end of the program, students will demonstrate an understanding of the principles, elements, and language common to graphic design.
  Assessment: Projects, quizzes, tests, critiques, critical analysis reports.
• At the end of the program, students will demonstrate the ability to critique their own work, as well as the work of other students; and defend their creative choices verbally and in writing.
  Assessment: Projects, quizzes, critiques, critical analysis reports.
• At the end of the program, students will demonstrate an understanding of a portfolio or “body of work”.
  Assessment: Projects, quizzes, critiques, critical analysis reports.
• At the end of the program, students will demonstrate the ability to use industry standard software and hardware to complete projects.
  Assessment: Projects, quizzes, exams, critiques.
• At the end of the program, students will demonstrate proficiency in the use of images and typography to create successful design solutions.
  Assessment: Projects, portfolio.
• At the end of the program, students will demonstrate an understanding of historic and contemporary graphic design practices.
  Assessment: Quizzes, tests, written assignments.

Total Units: 18

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B20</td>
<td>Digital Art I - Vector Art</td>
<td>3.0</td>
</tr>
<tr>
<td>ART B24</td>
<td>Digital Art II - Raster Art</td>
<td>3.0</td>
</tr>
</tbody>
</table>
| or
| ART B16       | Digital Photography            | 3.0   |
| ART B25       | Typography                     | 3.0   |
| ART B40       | Digital Illustration           | 3.0   |
| ART B41       | Advertising Design              | 3.0   |
| ART B42       | Graphic Design                  | 3.0   |

Photography Certificate of Achievement

The program is designed to prepare students for entry level positions in photography.

The core learned disciplines are photography, photographic lighting, an understanding of the visual elements, exposure to art and design history, conceptual visual problem solving, and the production of a portfolio using industry-standard software and processes.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a “C” grade in each course, a student will be awarded a Certificate of Achievement in Photography.
Program Learning Outcomes
- At the end of the program, students will demonstrate an understanding of the principles, elements, and language common to photography.
  Assessment: Projects, quizzes, tests, critiques
- At the end of the program, students will demonstrate the ability to critique their own work, as well as the work of other students; and defend their creative choices verbally and in writing.
  Assessment: Projects, quizzes, tests, critiques
- At the end of the program, students will demonstrate an understanding of a portfolio or “body of work”.
  Assessment: Projects, quizzes, tests, critiques
- At the end of the program, students will demonstrate the ability to use industry standard raster imaging applications.
  Assessment: Projects, quizzes, tests, critiques
- At the end of the program, students will demonstrate the ability to use lighting equipment, cameras and industry standard photographic equipment.
  Assessment: Projects, quizzes, tests, critiques
- At the end of the program, students will demonstrate an understanding of historic and contemporary photographic practices.
  Assessment: Projects, quizzes, tests, critiques

Total Units: 18

Program learning outcomes
Upon successful completion, the student will:
- demonstrate an understanding of the principles, elements, and language common to photography.
- demonstrate the ability to critique their own work, as well as the work of other students; and defend their creative choices verbally and in writing.
- demonstrate an understanding of a portfolio or “body of work”.
- demonstrate the ability to use industry standard raster imaging applications.
- demonstrate the ability to use lighting equipment, cameras and industry standard photographic equipment.
- demonstrate an understanding of historic and contemporary photographic practices.

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B16</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART B20</td>
<td>Digital Art I - Vector Art</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART B24</td>
<td>Digital Art II - Raster Art</td>
<td>3</td>
</tr>
<tr>
<td>ART B17</td>
<td>Black and White Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART B46</td>
<td>Advanced Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ART B47</td>
<td>Advanced Photography II</td>
<td>3</td>
</tr>
<tr>
<td>ART B48</td>
<td>Advanced Photography III</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives — For a total of at least 24 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B61</td>
<td>Basic &amp; Enhanced Area Clean Air Car Course</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B2A</td>
<td>Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B75A</td>
<td>Introduction to Engine Overhaul</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B75B</td>
<td>Engine Repair Techniques</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B1A</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B275</td>
<td>Special Problems in Automotive Technology</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Auto Engine Overhaul Certificate of Achievement
This program develops student’s knowledge and skills in the areas of automotive and light truck engine overhaul and machining procedures. Program includes instruction in theory of operation, diagnostic, and repair procedures.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Auto Engine Overhaul Certificate of Achievement.

To Transfer Coursework
A minimum of 24 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for industrial employment.

Automotive

Auto Brakes and Wheel Alignment Certificate of Achievement
This program develops student’s knowledge and skills in automotive brake and suspension systems operation, trouble-shooting, maintenance, repair, and wheel alignment procedures.

To Achieve the Certificate of Achievement

To Transfer Coursework
A minimum of 23 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for industrial employment.
Upon successful completion, the student will:

- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.

**Total Units: 23-24**

**Required Courses — Day Students**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AUTO B2A</td>
<td>Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B2B</td>
<td>Advanced Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness -or-equivalent-</td>
<td>3.0</td>
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</tbody>
</table>

**Required Courses — Night Students**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B75A</td>
<td>Introduction to Engine Overhaul</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B75B</td>
<td>Engine Repair Techniques</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B75C</td>
<td>Advanced Engine Overhaul</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B75D</td>
<td>Advanced Engine Machining</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness -or-equivalent-</td>
<td>3.0</td>
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</table>

**Electives — for a total of at least 23 units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B1AB</td>
<td>Introduction to Automotive Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B14</td>
<td>Auto Tune-Up: Electrical/Ignition/Accessories</td>
<td>11.0</td>
</tr>
<tr>
<td>AUTO B15</td>
<td>Auto Tune-Up:Fuel Systems and Emission Control</td>
<td>11.0</td>
</tr>
<tr>
<td>AUTO B64</td>
<td>Automotive Electricity and Electronics</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B61</td>
<td>Basic &amp; Enhanced Area Clean Air Car Course</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B112</td>
<td>Automotive Transmissions and Gear Boxes</td>
<td>9.0</td>
</tr>
<tr>
<td>INDT B275</td>
<td>Special Problems in Automotive Technology</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1A</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Auto Tune-Up and Emission Systems Certificate of Achievement**

This program develops student’s knowledge and skills in the areas of automotive and light truck tune-up and emission control systems. Program includes instruction in theory of ignition, fuel, and computer control systems as well as emission test procedures and complete diagnostic and repair procedures.

**To Achieve the Certificate of Achievement**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Auto Tune-Up and Emissions Systems Certificate of Achievement.

**To Transfer Coursework**

A minimum of 26 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.

**Total Units: 26**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B14</td>
<td>Auto Tune-Up: Electrical/Ignition/Accessories</td>
<td>11.0</td>
</tr>
<tr>
<td>AUTO B15</td>
<td>Auto Tune-Up: Fuel Systems and Emission Control</td>
<td>11.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness -or-equivalent-</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Electives — to equal 26 units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B59</td>
<td>Automotive Air Conditioning</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B64</td>
<td>Automotive Electricity and Electronics</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B61</td>
<td>Basic &amp; Enhanced Area Clean Air Car Course</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B75A</td>
<td>Introduction to Engine Overhaul</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B2A</td>
<td>Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>ELET B1</td>
<td>Basic Electronics (DC and AC)</td>
<td>4.0</td>
</tr>
<tr>
<td>ENGL B50</td>
<td>Introduction to College Composition</td>
<td>4.0</td>
</tr>
<tr>
<td>INDT B275</td>
<td>Special Problems in Automotive Technology</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Automotive Heating, Ventilation & Air Conditioning (HVAC) Job Skills Certificate**

This program develops student’s knowledge and skills in automotive and light truck heating and air conditioning systems. The program includes instruction and theory in the operation, diagnosis, environmental concerns from refrigerants, electrical controls and computer operation, and proper repairs to these systems. Career opportunities in Automotive Technology prepares automotive technicians for employment as auto technicians for operation, diagnosis, environmental concerns from refrigerants, electrical controls and computer operation, and proper repairs to these systems.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Automotive Heating, Ventilation & Air Conditioning (HVAC) Job Skills Certificate.

**To Transfer Coursework**

A minimum of 15 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.

**Total Units: 15**
### Automotive Management

**Job Skills Certificate**

This program develops the student’s knowledge and basic skills to seek entry level employment in the automotive services industry. These include a general technical knowledge of the automobile and light truck; automotive service writing including California legal requirements set forth by the Bureau of Automotive Repair; customer satisfaction including telephone and face-to-face interpersonal communications skills; handling warranty claims and documentation; DMV documentation and processing; use and understanding of general office keyboarding skills, and automotive parts sales and stocking systems.

Career opportunities include automotive repair front desk, occupations requiring a general technical knowledge of the automobile and light truck, automotive service writing including California legal requirements set forth by the Bureau of Automotive Repair, handling warranty claims, DMV documentation and processing, automotive parts sales and stocking systems.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Automotive Management Job Skills Certificate.

**To Transfer Coursework**

A minimum of 14 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- understand shop and office personal safety and environmental hazards related to the automotive industry.
- understand how to write service repair orders using both written and computerized formats.
- demonstrate proper telephone and interpersonal communication skills.
- have knowledge of and practice in creating DMV documentation and processing.
- understand California consumer protection laws and the Bureau of Automotive Repairs regulations.
- have knowledge and practice of accepted work ethics in the automotive repair business.
- have knowledge of the automotive parts handling systems and sales techniques.
- have knowledge and practice of handling consumer warranty claims and documentation.

**Total Units: 14**

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B106</td>
<td>Auto Brakes/Suspension/Alignment</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B61</td>
<td>Basic &amp; Enhanced Area Clean Air Car Course</td>
<td>4.0</td>
</tr>
<tr>
<td>AUTO B2A</td>
<td>Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B75A</td>
<td>Introduction to Engine Overhaul</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B275</td>
<td>Special Problems in Automotive Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B74A</td>
<td>Introduction to GMAW (Gas Metal Arc Welding)</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B74B</td>
<td>Introduction to Gas Tungsten Arc Welding</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Basic and Advanced Clean Air Car Course Job Skills Certificate**

This course prepares the student to take the California State Smog Test. It also helps prepare the student to take the ASE (Automotive Service Excellence) A-6, A-8 and L-1 tests. All elements of this class are mandated by the California Department of Consumer Affairs, Bureau of Automotive Repair and are subject to periodic change and addition by that agency.
To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Basic and Advanced Clean Air Car Course Job Skills Certificate.

To Transfer Coursework
A minimum of 15 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.

Total Units: 15

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B15</td>
<td>Auto Tune-up: Fuel Systems and Emission</td>
<td>11.0</td>
</tr>
<tr>
<td>AUTO B61</td>
<td>Basic and Enhanced Area Clean Air Car Course</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Industrial Technology, Automotive Option Associate in Science
This degree prepares students to work as technicians in the automotive industry and provides them with a broad based general education as well as technical competency required for the industry. In addition to the general education requirements prescribed by the Board of Governors of the California Community Colleges and the Board of Trustees of the Kern Community College District, the student must successfully complete 31 units from the automotive courses listed below. From these classes the student should choose two major classes in a specialty area and make up the remainder of the 32 units from areas of choice. Career opportunities in automotive technology include automotive engine performance and emissions, engine overhaul, brakes and suspension, transmission and gear box overhaul.

To Achieve the Associate in Science
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Industrial Technology, Automotive Option Associate in Science degree.

To Transfer Coursework
A minimum of 31 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment in the automotive industry.
- demonstrate problem solving skills used in the automotive industry.
- demonstrate a deep understanding of the core material required for certification in the automotive program.

Total Units: 31

Select 31 units from the following courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO B2A</td>
<td>Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B2B</td>
<td>Advanced Engine Repair &amp; Machining</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B106</td>
<td>Auto Brakes/Suspension/Alignment</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B112</td>
<td>Automotive Transmissions and Gear Boxes</td>
<td>9.0</td>
</tr>
<tr>
<td>AUTO B14</td>
<td>Auto Tune-Up: Electrical/Ignition/Accessories</td>
<td>11.0</td>
</tr>
<tr>
<td>AUTO B15</td>
<td>Auto Tune-Up: Fuel Systems and Emission Controls</td>
<td>11.0</td>
</tr>
<tr>
<td>ELET B1</td>
<td>Basic Electronics (DC and AC)</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Biology

Biology - General Biology Associate in Science
Biology is the study and application of principles of cell biology, ecology, evolution, genetics, anatomy and physiology as it relates to humans and other organisms. Laboratory and field trip activities emphasize the integrated and interdependent nature of living systems. Course work trains students to use observation and investigation to identify questions and pursue answers using the scientific method.

Graduates with biology degrees may pursue jobs in a variety of fields including: biochemistry, biotechnology, botany, ecology, entomology, genetics, health, immunology, medicine, molecular biology, oceanography, pharmacy, teaching, wildlife management, zoology, and related clinical fields. Biology majors may choose to specialize in research based on a particular organism or an aspect of biology related to those listed above. Career opportunities in Biology include many fields of biology, medical school, dental school and veterinary school.

To Achieve the Associate in Science
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Biology - General Biology Associate in Science degree.

To Transfer Coursework
A minimum of 20 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- research a topic, design experiments, synthesize and evaluate information they find, and justify and express their opinion on virtually any topic using the scientific method.

Total Units: 20

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B3A</td>
<td>General Biology I</td>
<td>5.0</td>
</tr>
<tr>
<td>BIOL B3B</td>
<td>General Biology II</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1A</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1B</td>
<td>General Chemistry and Chemical Analysis</td>
<td>5.0</td>
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</table>

Electives

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B16</td>
<td>General Microbiology</td>
<td>5.0</td>
</tr>
</tbody>
</table>
Biology - Human Biology Associate in Science

Courses required for the Human Biology Associate of Science degree include biology and chemistry courses necessary for transfer to allied health programs such as nursing, physical therapy, Physician Assistant, and radiology. Please refer to the Suggested Program information and check with a counselor concerning specific degree requirements to specific programs and transfer institutions. Please note that many of the courses have prerequisites that are best taken in the appropriate order to ensure success.

Career opportunities in Biology include Nursing, physical therapy, medical technologist, and physician assistant.

To Achieve the Associate in Science

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Biology - General Biology Associate in Science degree.

To Transfer Coursework

A minimum of 18 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Fourth semester Nursing students and second semester radiologic technology students will report biology prerequisite courses were important to their success thus far in the program.

Students who successfully complete the allied health pathway will be accepted into the Nursing program (defined as NURS B1) and further, those students will persist and complete the Nursing program (defined as NURS B9 and B10).

Upon successful completion, the student will:

- identify medical problems and apply appropriate and effective solutions.
- analyze a clinical situation using anatomical terminology, select the correct technology to use for further examination, analyze and determine a diagnosis when a pathology is described, create a plan of action.
- demonstrate proficiency using a microscope.

Total Units: 18

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B32</td>
<td>Human Anatomy and Physiology I</td>
<td>4.0</td>
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<tr>
<td>BIOL B33</td>
<td>Human Anatomy and Physiology II</td>
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</tr>
<tr>
<td>BIOL B16</td>
<td>General Microbiology</td>
<td>5.0</td>
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Electives — for a total of at least 18 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B21</td>
<td>Special Projects in Biology</td>
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</tr>
<tr>
<td>CHEM B2A</td>
<td>Introductory General Chemistry</td>
<td>4.0</td>
</tr>
<tr>
<td>CHEM B11</td>
<td>Introduction to General, Organic, and Biochemistry</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1A</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1B</td>
<td>General Chemistry and Chemical Analysis</td>
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<tr>
<td>MEDS B60</td>
<td>Medical Terminology</td>
<td>3.0</td>
</tr>
<tr>
<td>NUTR B10</td>
<td>Elementary Nutrition</td>
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First Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B3A</td>
<td>General Biology I</td>
<td>5.0</td>
</tr>
<tr>
<td>CHEM B1A</td>
<td>General Chemistry I</td>
<td>5.0</td>
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<tr>
<td>ENGL B1A</td>
<td>Expository Composition</td>
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Second Semester

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<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B3B</td>
<td>General Biology II</td>
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</tr>
<tr>
<td>CHEM B1B</td>
<td>General Chemistry and Chemical Analysis</td>
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</tr>
<tr>
<td>ENGL B2</td>
<td>Advanced Composition and Critical Thinking</td>
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<tr>
<td>PHIL B9</td>
<td>Critical Thinking and Advanced Composition</td>
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Third Semester

<table>
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<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
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<tr>
<td>PHYS B2A</td>
<td>General Physics-Mechanics and Heat</td>
<td>4.0</td>
</tr>
<tr>
<td>COMM B1</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>Art or Humanities elective</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>Social or Behavioral Science elective</td>
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Fourth Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
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<tr>
<td>PHYS B2B</td>
<td>General Physics-Sound, Light, Electricity, Magnetism, Modern Physics</td>
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<tr>
<td>Art or Humanities elective</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>Social or Behavioral Science elective</td>
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<td></td>
</tr>
</tbody>
</table>

Note: Some UC campuses now require calculus-based physics for biology majors and other particular courses. If you are planning to transfer to a UC campus, contact their admissions office for advice.

Business Administration

The Business Administration department strives to promote and enhance the economic development of the community; to provide for lifelong learning and academic excellence through course content, application, and technology; to serve diverse populations with a sense of worth and dignity; to establish work ethics relative to a positive work environment; to meet workforce needs through skills...
development, training, and personal growth; and to communicate a sense of vision and renewal through a creative utilization of productive and innovative resources.

**Associate in Science in Business Administration for Transfer**

The Associate in Science in Business Administration for Transfer degree (AS-T in Business Administration) is designed to provide students a clear transfer pathway to the CSU business administration major and completion of the business administration baccalaureate degree, to grant guaranteed admission to a CSU to a similar major with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. The Associate of Science in Business Administration for Transfer degree provides a study of key business concepts. Business Administration majors will be able to analyze business scenarios and use numerical, graphical, symbolic, and verbal representations to effectively solve problems and communicate those solutions. Business Administration majors will be able to communicate economic effects, effectively convey symbolic, and verbal representations to effectively solve problems and communicate those solutions. Business Administration majors will be able to communicate economic effects, effectively convey symbolic, and verbal representations to effectively solve problems and communicate those solutions.

**List A Select one (3-4 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B2</td>
<td>Business Calculus</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B23</td>
<td>Finite Math</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List B Select one (3 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Total Required Units** 26-27

**Accounting Associate in Arts**

An Accounting degree provides students with the knowledge and skills necessary for employment and growth in the accounting profession. Using the language of business, accountants assemble and analyze, process, and communicate essential information about financial operations.

**To Achieve the Associate in Arts**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Accounting Associate in Arts degree.

**To Transfer Coursework**

A minimum of 30.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- Analyze and record financial transactions in a manual or computerized general ledger system.
- Prepare financial statements; analyze and prepare financial information for management decision making.
- Utilize current income tax resources to prepare personal income tax returns.
- Communicate financial information effectively within a business environment.
- Process payroll transactions in accordance with current payroll reporting requirements.

**Total Units: 30.5**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B53A</td>
<td>Introduction to Accounting 1</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B53B</td>
<td>Introduction to Accounting 2</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B54</td>
<td>Payroll Accounting</td>
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</tr>
<tr>
<td>BSAD B55</td>
<td>Computer Accounting Applications</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B40</td>
<td>Personal Finance</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B51</td>
<td>Business Mathematics</td>
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</tr>
<tr>
<td>BSAD B264</td>
<td>Ten-Key Proficiency</td>
<td>0.5</td>
</tr>
<tr>
<td>BSAD B18</td>
<td>Business Law</td>
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</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B5</td>
<td>Human Relations and People Skills</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Note:** BSAD B1 may be substituted for BSAD B53A and BSAD B53B.
Office Assistant
Job Skills Certificate

This certificate prepares students as entry-level office support staff. Students are urged to continue beyond the Job Skills Certificate and earn a Certificate of Achievement or Associate of Arts degree.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Office Assistant Job Skills Certificate.

To Transfer Coursework
A minimum of 11 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- interact effectively in oral and written communication.
- participate in office related work experience to achieve the following desirable job qualities:
  - function as a team member.
  - demonstrate interpersonal skills on the job.
  - manage multi-tasks efficiently.
  - model professional and ethical behaviors.
  - identify soft skills such as being on time.
- demonstrate minimum acceptable skills in ten-key, keyboarding, and document processing.
- demonstrate minimum filing competencies.

Total Units: 11

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B252ABC</td>
<td>Computer Keyboarding, Parts 1-2-3</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B287</td>
<td>Filing</td>
<td>1.5</td>
</tr>
<tr>
<td>BSAD B85/B285</td>
<td>Business English</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B264</td>
<td>Ten-Key Proficiency</td>
<td>0.5</td>
</tr>
<tr>
<td>BSAD B280</td>
<td>Machine Transcription</td>
<td></td>
</tr>
<tr>
<td>BSAD B253ABC</td>
<td>Document Processing, Part 1-2-3</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B280</td>
<td>Machine Transcription</td>
<td>1.5</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>1-3.0</td>
</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Office Assistant
Certificate of Achievement

An Office Assistant Certificate of Achievement increases the student’s employability as office support staff. Students who have completed the Job Skills Certificate courses can quickly upgrade to the Certificate of Achievement by completing the following courses with at least a ‘C’ grade.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Office Assistant Certificate of Achievement.

To Transfer Coursework
A minimum of 27-29 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- participate in office related work experience to achieve the following desirable job qualities:
  - function as a team member.
  - demonstrate interpersonal skills on the job.
  - manage multi-tasks efficiently.
  - model professional and ethical behaviors.
  - identify soft skills such as being on time.
- demonstrate minimum filing competencies.

Total Units: 27-29

Administrative Office Assistant
Associate in Arts

The Administrative Office programs are designed to provide the skills and competencies needed to become an efficient, productive member of an office support team. Courses are designed to help students learn to analyze and coordinate office duties and systems, develop proficiency in the use of integrated software, and improve oral and written communication. Emphasis is placed on non-technical as well as technical skills. Students have the option of completing certificates and/or a two-year degree program. Designed to prepare the student for employment as office support staff to assist managers, executives, and professionals.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Administrative Office Assistant Associate in Arts degree.

To Transfer Coursework
A minimum of 30-32 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate minimum acceptable skill levels in ten-key, keyboarding, and document processing.
- interact effectively in oral and written communication.
- participate in office related work experience to achieve the following desirable job qualities:
  - function as a team member.
  - demonstrate interpersonal skills on the job.
  - manage multi-tasks efficiently.
  - model professional and ethical behaviors.
  - identify soft skills such as being on time.
- demonstrate minimum filing competencies.

Total Units: 30-32
### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B252ABC</td>
<td>Computer Keyboarding, Parts 1-2-3</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B253ABC</td>
<td>Document Processing, Parts 1-2-3</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B287</td>
<td>Filing</td>
<td>1.5</td>
</tr>
<tr>
<td>BSAD B85/B285</td>
<td>Business English</td>
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<tr>
<td>BSAD B88</td>
<td>Office Procedures</td>
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</tr>
<tr>
<td>BSAD B5</td>
<td>Human Relations and People Skills</td>
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</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B53A</td>
<td>Introduction to Accounting I</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B264</td>
<td>Ten-Key Proficiency</td>
<td>0.5</td>
</tr>
<tr>
<td>BSAD B280</td>
<td>Machine Transcription</td>
<td>1.5</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>1-3.0</td>
</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B65</td>
<td>Principles of Organizational Communication</td>
<td>3.0</td>
</tr>
</tbody>
</table>

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### General Business Job Skills Certificate

A Job Skills Certificate in General Business will provide the student with broad-based knowledge and skills in business. These core classes provide the foundation for a variety of successful careers in business.

#### To Achieve the Job Skills Certificate

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a General Business Job Skills Certificate.

#### To Transfer Coursework

A minimum of 12 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

#### Program Learning Outcomes

Upon successful completion, the student will:
- analyze and record financial transactions in a manual or computerized general ledger system.
- perform the duties of a supervisor or middle level manager.
- effectively communicate within an organization in both written and oral media.
- make legal and ethical decisions that achieve organizational objectives.

#### Total Units: 12

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B5</td>
<td>Human Relations and People Skills</td>
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</tr>
<tr>
<td>BSAD B20</td>
<td>Introduction to Business</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B53A</td>
<td>Introduction to Accounting 1</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B53A</td>
<td>Introduction to Accounting 1</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B1</td>
<td>Financial Accounting</td>
<td>4.0</td>
</tr>
</tbody>
</table>

---

### Retail Management Certificate of Achievement

A Certificate of Achievement in Retail Management is designed to prepare students for entry-level employment. The Certificate will provide the student with broad-based knowledge and skills in retailing including grocery chains. This foundation can be built into many successful careers. The certificate is approved by members of the Western Association of Food Chains, all the major supermarket chains in the western 13 states. It encompasses several business essentials, including the soft skills of management and communication required for career success in the retail food industry.

#### To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Retail Management Certificate of Achievement.

#### To Transfer Coursework

A minimum of 30-31 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

#### Program Learning Outcomes

Upon successful completion, the student will:
- perform the duties of a supervisor or middle level manager.
• analyze and record financial transactions in a manual or computerized general ledger system.
• effectively communicate within an organization in both written and oral media.
• make legal and ethical decisions that achieve organizational objectives.

Total Units: 30-31

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B1</td>
<td>Public Speaking</td>
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<tr>
<td>or</td>
<td>BSAD B51 Business Mathematics</td>
<td>3.0</td>
</tr>
<tr>
<td>BSAD B56</td>
<td>Principles of Organizational Communication</td>
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<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
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</tr>
<tr>
<td>BSAD B9</td>
<td>Fundamentals of Marketing</td>
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<td>BSAD B43</td>
<td>Principles of Management</td>
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<td>BSAD B53A</td>
<td>Introduction to Accounting</td>
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<td>BSAD B1</td>
<td>Financial Accounting</td>
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<td>BSAD B90</td>
<td>Fundamentals of Retailing</td>
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<tr>
<td>BSAD B5</td>
<td>Human Relations and People Skills</td>
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</tr>
<tr>
<td>BSAD B61</td>
<td>Human Resources Management</td>
<td>3.0</td>
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</tbody>
</table>

**Plus 8 units from the following**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS B4A*</td>
<td>Mechanics and Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>or</td>
<td>PHYS B4B* Heat, Electricity, Magnetism</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2A</td>
<td>General Physics-Mechanics &amp; Heat</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2B</td>
<td>General Physics-Sound, Light, Electricity, Magnetism, Modern Physics</td>
<td>4.0</td>
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</tbody>
</table>

**Electives**

<table>
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<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS B4C*</td>
<td>Optics &amp; Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>BIOL B3B</td>
<td>General Biology II</td>
<td>5.0</td>
</tr>
<tr>
<td>BIOL B16</td>
<td>General Microbiology</td>
<td>5.0</td>
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</table>

**Suggested Program for Chemistry Associate in Science**

**First Semester**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM B1A</td>
<td>General Chemistry I</td>
<td>5.0</td>
</tr>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM B1B</td>
<td>General Chemistry &amp; Chemical Analysis</td>
<td>5.0</td>
</tr>
<tr>
<td>PHYS B4A*</td>
<td>Mechanics and Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
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</table>

**Third Semester**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHEM B1B</td>
<td>Elementary Organic Chemistry</td>
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</tr>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4B*</td>
<td>Heat, Electricity, Magnetism</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2A</td>
<td>General Physics-Mechanics &amp; Heat</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Fourth Semester**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS B4C*</td>
<td>Optics &amp; Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2B</td>
<td>General Physics-SLEMMP</td>
<td>4.0</td>
</tr>
</tbody>
</table>

*Note: BIOL B3b no longer has BIOL B3A as prerequisite.*

The courses in physics (PHYS B4A, B4b, B4c), math (MATH B6A through MATH B6c) and chemistry (CHEM B1a and B1b) are required as preparation for the major in chemistry at most transfer colleges and universities. See www.assist.org for specific major preparation courses for the CSUs and UCs. Two courses in English composition (ENGL B1a and ENGL B2 or PHIL B9) as well as general education courses are also required. Please consult with a counselor.
for more specific information and study the catalog of the senior institution to which you intend to transfer.

**Child Development**

*Associate in Science in Early Childhood Education for Transfer*

The Associate in Science in Early Childhood Education for Transfer degree is designed to train students to work in a variety of early childhood settings. The two-year program primarily serves students desiring an early childhood background, supervised student teaching experience and fulfillment of academic requirements for a Child Development Teacher Permit. Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Development and Family Relations Associate in Science degree.

Early Childhood Education Careers (ECE): ECE Site Supervisor, ECE Assistant Teacher, ECE Associate Teacher, ECE Master Teacher, ECE Program Director; Licensed Day Care Provider; After School Advocate, Child Advocate, Social Worker/Child Protective Services, Elementary Education Credentialled Teacher; Marriage Family Counselor; School Psychologist, College Instructor; Doula, Lactation Consultant.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Program Learning Outcomes**

Upon successful completion, the student will be able to:

- demonstrate an understanding of developmentally appropriate curriculum and explain principles and practices pertaining to child development.
- explain topics concerning the child, family, and community, and will be able to demonstrate pediatric CPR and first aid.
- compose observations and assessments, compare and contrast the development of children on children from infancy to adolescents considerign culture and typical and atypical needs.
- demonstrate an understanding of the needs of infant/toddler and children with special needs, according to their mastery specialization. The master teacher will be able to design a care plan for the needs of infant and toddlers or special education children commensurate to their specialization.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B20</td>
<td>Principles and Practices</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth Through Adolescence</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**CHDV B22** Observation and Assessment - Birth Through Adolescence 3.0
**CHDV B32** Teaching in a Diverse Society 3.0
**CHDV B36** Developmentally Appropriate Curriculum 3.0
**CHDV B41** Supervised Field Experience in Early Childhood Education 3.0
**CHDV B42** Child, Family, and Community 3.0
**CHDV B49** Child Health, Safety and Nutrition 3.0

**Associate in Arts in Elementary Teacher Education for Transfer**

The Associate in Arts in Elementary Teacher Education for Transfer degree is designed to prepare students for transfer to a California State University traditional or integrated teacher preparation program. The Associate in Arts in Elementary Teacher Education for Transfer degree incorporates the elementary subject matter competence requirements as established by the California Teacher Credentialing Commission and prepares students for the California Subject Examinations for Teachers (CSET) Multiple Subjects exam. Additionally, the degree may also serve as preparation for paraprofessional positions in the K-12 classroom, meeting unit requirements for paraprofessionals as established by the No Child Left Behind Act.

**Program Learning Outcomes**

Upon successful completion, the student will:

- evaluate elements of diversity and diverse learning styles in student populations.
- analyze how teachers and schools can promote learning for all students.
- demonstrate proficiency in 14 content areas required for subject-matter competency for elementary teachers.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B11</td>
<td>Concepts of Biology</td>
<td>4.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B1</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC B24</td>
<td>Early Field Experience for Elementary Teachers</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B1A</td>
<td>Expository Composition</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B1B</td>
<td>Introduction to Types of Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10</td>
<td>Introduction to Earth Science</td>
<td>3.0</td>
</tr>
<tr>
<td>ERSC B10L</td>
<td>Earth Science Laboratory</td>
<td>1.0</td>
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<tr>
<td>GEOG B5</td>
<td>World Regional Geography</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B1</td>
<td>World History from the Origins of Civilizations to 1600</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17A</td>
<td>History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B4A</td>
<td>Mathematics for Elementary School Teaching</td>
<td>4.0</td>
</tr>
</tbody>
</table>
PHSC B12  Physical Science  4.0
POLI B1     American Government: National, State and Local  3.0

**List A: select one (4 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B3</td>
<td>Argumentative Writing and Critical Thinking Through Literature</td>
<td>4.0</td>
</tr>
<tr>
<td>PHIL B9</td>
<td>Critical Thinking and Advanced Composition</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**List B: select one (3 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B1</td>
<td>Art Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B22</td>
<td>Music Appreciation</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B20</td>
<td>Introduction to Theatre</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**List C: select one (3 units)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B18</td>
<td>History of California</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 53

**Child Development Assistant Teacher Job Skills Certificate**

This course work meets the requirements for the Child Development Assistant Teacher Permit. Career opportunities in Child Development include Assistant Child Development Teacher.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Development Assistant Teacher Job Skills Certificate.

**To Transfer Coursework**

A minimum of 6 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate a developmentally appropriate curriculum.
- be employable as an assistant teacher in a private child development program.

**Total Units: 6**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B36</td>
<td>Developmentally Appropriate Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B20</td>
<td>Principles and Practices</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Child Development Associate Teacher Job Skills Certificate**

This course work meets the requirements for the Child Development Associate Teacher Permit. This course work also meets the Child Development requirements for a fully qualified teacher in a licensed Preschool Child Development Center or School-Age Center.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Development Associate Teacher Job Skills Certificate.

**To Transfer Coursework**

A minimum of 12 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- be able to articulate 12 units with California State University, Bakersfield.
- be employable as an associate teacher in a publicly funded or private child development program.
- will have pediatric CPR and First Aid certification.

**Total Units: 12**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B20</td>
<td>Principles and Practices</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B36</td>
<td>Developmentally Appropriate Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B42</td>
<td>Child, Family and Community</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B49</td>
<td>Child Health, Safety and Nutrition</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Child Development Teacher Certificate of Achievement**

This course work meets the Child Development requirements for the Child Development Teacher Permit. Students may apply for the Permit at the Kern County Superintendent of Schools, Office of Credentials, 661/636-4750 or 661/636-4751. Students must also meet the General Education requirement and Experience requirement in accordance with the California Commission on Teacher Credentialing.

**To Achieve the Certificate of Achievement**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Development Teacher Certificate of Achievement.

**To Transfer Coursework**

A minimum of 27 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- be able to articulate 12 units with California State University, Bakersfield.
- acquire a teacher permit from the State of California Teacher Commission.
- meet all requirements for the Associate in Science degree in the major.
- be employable as a teacher in publicly funded or private child development programs.
- will have pediatric CPR and First Aid certification.

**Total Units: 27**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth Through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B22</td>
<td>Observation and Assessment-Birth Through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B32</td>
<td>Teaching in a Diverse Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B36</td>
<td>Developmentally Appropriate Curriculum</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Child Development Master Teacher - Infant Toddler Certificate of Achievement

The Certificate of Achievement for Child Development Master Teacher - Infant Toddler may be earned by taking the 27 units of child development courses required for the Child Development Teacher Certificate of Achievement and the following courses.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Development Master Teacher - Infant Toddler Certificate of Achievement.

To Transfer Coursework
A minimum of 35 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- be able to articulate 12 units with California State University, Bakersfield.
- acquire a teacher permit from the Commission on Teacher Credentialing.
- meet all requirements for the Associate in Science degree in the major.
- be able to receive a job as a master teacher in a publicly funded or private child development program.
- have a pediatric CPR and First Aid certification.

Total Units: 35

Required Courses (completion of the Child Development Teacher Certificate of Achievement plus the following)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B13C</td>
<td>Child Growth and Development: The Infant Toddler Years</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B52</td>
<td>Care of Infants and Toddlers with Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B53A</td>
<td>Early Childhood Education: Adult Supervision</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Child Development Master Teacher - Special Education Certificate of Achievement

The Certificate of Achievement for Child Development Master Teacher - Special Education may be earned by taking the 27 units of child development courses required for the Child Development Teacher Certificate of Achievement and the following courses.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Development Master Teacher - Special Education Certificate of Achievement.

To Transfer Coursework
A minimum of 35 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- be able to articulate 12 units with California State University, Bakersfield.
- acquire a teacher permit from the Commission on Teacher Credentialing.
- meet all requirements for the Associate in Science degree in the major.
- be able to receive a job as a master teacher in a publicly funded or private child development program.
- have a pediatric CPR and First Aid certification.

Total Units: 35

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHDV B33</td>
<td>Survey of Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B52</td>
<td>Care of Infants and Toddlers with Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B53A</td>
<td>Early Childhood Education: Adult Supervision</td>
<td>2.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth Through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B22</td>
<td>Observation and Assessment-Birth Through Adolescence</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B32</td>
<td>Teaching in a Diverse Society</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B36</td>
<td>Developmentally Appropriate Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B40</td>
<td>Creative Art, Movement, and Music Activities for Young Children</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B42</td>
<td>Child, Family and Community</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B49</td>
<td>Child Health, Safety and Nutrition</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B20</td>
<td>Principles and Practices</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B41</td>
<td>Supervised Field Experience in Early Childhood Education</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Communication

Communication Studies

Associate in Arts for Transfer

The Associate in Arts in Communication Studies for Transfer is intended for all students who plan to complete an AA in Communication studies. This degree is especially valuable for those students planning on completing a bachelor's degree in Communication or a similar major at a CSU campus because the Associate in Arts in Communication Studies for Transfer guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Communication Studies for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Communication Studies for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. No additional graduation requirements are required to complete this degree.

The Associate in Arts in Communication Studies for Transfer equips students with relational and presentation skills that provide a foundation for success throughout students' educational careers, business careers and personal interactions. Students learn about
To Transfer Coursework
A minimum of 18 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
The successful student will be able to:

- Construct, use, and interpret messages across multiple channels to inform, persuade, manage, negotiate, relate, and generally influence each other within and across varying cultural venues.
- Identify and value disparate systems of social norms and values that influence the human communicative process.
- Understand the various theoretical and pragmatic skills that enable them to navigate social interaction within multiple interpersonal, small group, public, and intercultural contexts.
- Become familiar with both field-specific nomenclature as well as effective oral, listening, and critical thinking skills.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B1*</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td><strong>Group A (any two of the following courses)</strong></td>
<td></td>
</tr>
<tr>
<td>COMM B2*</td>
<td>Interpersonal Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B5*</td>
<td>Rhetoric and Argumentation</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B8*</td>
<td>Small Group Communication</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td><strong>Group B (any two of the following or any Group A course not used)</strong></td>
<td></td>
</tr>
<tr>
<td>COMM B4*</td>
<td>Persuasive Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B6*</td>
<td>Intercultural Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B7*</td>
<td>Organizational Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B21</td>
<td>Oral Interpretation</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td><strong>Group C (any one of the following or any Group A or B course not used)</strong></td>
<td></td>
</tr>
<tr>
<td>COMM B9</td>
<td>Health Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B10</td>
<td>Communication and Leadership</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Required Core Courses

To Achieve the Associate in Arts for Transfer
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Communication Studies Associate in Arts for Transfer degree.

To Transfer Coursework
A minimum of 18 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
The successful student will be able to:

- Construct, use, and interpret messages across multiple channels to inform, persuade, manage, negotiate, relate, and generally influence each other within and across varying cultural venues.
- Identify and value disparate systems of social norms and values that influence the human communicative process.
- Understand the various theoretical and pragmatic skills that enable them to navigate social interaction within multiple interpersonal, small group, public, and intercultural contexts.
- Become familiar with both field-specific nomenclature as well as effective oral, listening, and critical thinking skills.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM B1*</td>
<td>Public Speaking</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td><strong>Group A (any two of the following courses)</strong></td>
<td></td>
</tr>
<tr>
<td>COMM B2*</td>
<td>Interpersonal Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B5*</td>
<td>Rhetoric and Argumentation</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B8*</td>
<td>Small Group Communication</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td><strong>Group B (any two of the following or any Group A course not used)</strong></td>
<td></td>
</tr>
<tr>
<td>COMM B4*</td>
<td>Persuasive Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B6*</td>
<td>Intercultural Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B7*</td>
<td>Organizational Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B21</td>
<td>Oral Interpretation</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td><strong>Group C (any one of the following or any Group A or B course not used)</strong></td>
<td></td>
</tr>
<tr>
<td>COMM B9</td>
<td>Health Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B10</td>
<td>Communication and Leadership</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Required Courses (select 12 units from the following)

Required Subtotal
18.0

CSU General Education or IGETC Pattern:
Transfer Electives (as needed to reach 60 transferable units)
Degree Total
60.0

*Courses with an asterisk can be double counted for General Education

Communication Certificate of Achievement
The Communication Certificate is designed to enhance a student's ability to communicate in social, professional, and relational contexts. This certificate is intended to enhance the communication skills of students from all majors and career plans. Students are required to take four classes for a total of twelve units.

Program Learning Outcomes
Upon successful completion, the student will:

- construct, use, and interpret messages across multiple channels to inform, persuade, manage, negotiate, relate, and generally influence each other within and across varying cultural venues.
- identify and value disparate systems of social norms and values that influence the human communicative process.
- understand the various theoretical and pragmatic skills that enable them to navigate social interaction within multiple interpersonal, small group, public, and intercultural contexts.
- become familiar with both field-specific nomenclature as well as effective oral, listening, and critical thinking skills.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B2</td>
<td>Advanced Composition and Critical</td>
<td>4.0</td>
</tr>
<tr>
<td>JRNL B1</td>
<td>Media and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B2</td>
<td>Beginning Reporting Thinking</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B1A</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Transfer Electives (as needed to reach 60 transferable units)

Required Subtotal
18.0

CSU General Education or IGETC Pattern:
Transfer Electives (as needed to reach 60 transferable units)
Degree Total
60.0

Computer Studies

Associate in Science in Computer Science for Transfer
The Associate in Science in Computer Science for Transfer degree (AS-T in Computer Science) is designed to provide students a clear transfer pathway to the CSU computer science major and completion
of the computer science baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. Students will take courses in computer science and related fields that will provide the theoretical and practical knowledge necessary to work in a variety of computer related fields such as Software Engineering, Computer Engineering, Computer Systems Analysis, Network Engineering, Cloud Computing, Mobile Application Development, Computer Support, Computer Information Systems, Database Administration, Network Security, and Web Development.

The following is required for the completion of all AA-T or AS-T degrees:
1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Program Learning Outcomes**
Upon successful completion, the student will be able to:
- Identify the appropriate software development technologies, algorithms, and scientific and mathematical principles to apply to a given program.
- Effectively design and implement programming constructs, including functions, control structures, arrays/lists, classes and objects for a given programming problem.
- Effectively implement the appropriate data structures using the principles and techniques of object-oriented programming for a given programming problem.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B11</td>
<td>Programming Concepts and Methodologies I</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B12</td>
<td>Programming Concepts II</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B13</td>
<td>Computer Architecture &amp; Organization</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B14</td>
<td>Discrete Structures</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4A</td>
<td>Mechanics and Wave Motion</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B4B</td>
<td>Heat, Electricity, Magnetism</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total required units in major area of emphasis: 28

**CompTIA Certificate of Achievement**

The program curriculum prepares students interested in learning computer concepts and technologies, preparing them for employment in many areas of Information Technology. Each course in the program approaches topics in a vendor-neutral (more generalized) fashion so that they can easily be applied to specific industries. The curriculum is designed to support students seeking to pass CompTIA's certification exams. CompTIA is an internationally recognized certification program for the information technology industry. Acquiring such certifications will assist students in finding employment in Information Technology and Computer Infrastructure related fields. Some of these fields include:
- Network and Systems Administrators
- Computer Network Architects
- Computer Network Support Specialists
- Computer Support Specialists
- Information Security Analysts
- Network and Computer Systems Administrators
- Information Security Analysts
- Computer Hardware Support

**To Achieve the Certificate of Achievement**
Upon successful completion of the core requirements with a ‘C’ grade or better in each course, the student will be awarded a CompTIA Certificate of Achievement.

**Program Learning Outcomes**

- Students will demonstrate an understanding of computer hardware and software terminologies and digital infrastructure troubleshooting techniques.
- Students will demonstrate the ability to install and administer Operating Systems.
- Students will demonstrate an understanding of networking infrastructure concepts and security.
- Students will demonstrate an understanding of those technologies that aid in the support of computer and communications infrastructures.

**Total Units: 19**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B31</td>
<td>CompTIA Network Security - Security+</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B32</td>
<td>CompTIA Linux+</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B33</td>
<td>CompTIA Networking Technologies - Network+</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B34</td>
<td>CompTIA A+</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Elective Courses (select 6 units from the following):**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B10</td>
<td>Introduction to Programming Methodologies using Python</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B11</td>
<td>Programming Concepts and Methodologies I</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B21</td>
<td>Database Systems – Design &amp; Structured Query Language (SQL)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Construction Technology Certificate of Achievement**

The requirements for the Construction Technology Certificate of Achievement are intended to provide students with the opportunity to develop skills and knowledge to enter into the diverse residential construction field. So each student can explore and design their respective career path, emphasis is placed on blending technical skill development, industrial safety with practical lab activities. Students can obtain these courses from within the Construction Technology area and from the various related disciplines (architecture, industrial drawing, industrial technology and wood technology).
To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Construction Technology Certificate of Achievement.

To Transfer Coursework
A minimum of 27 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 27

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH B6</td>
<td>Materials of Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B55</td>
<td>Residential Building Codes</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B1</td>
<td>Introduction to Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B2</td>
<td>Estimating and Scheduling</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B50A</td>
<td>Residential Construction</td>
<td>7.0</td>
</tr>
<tr>
<td>-or-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNST B50B</td>
<td>Residential Construction</td>
<td>7.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
<tr>
<td>-or equivalent-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH B56</td>
<td>Commercial Codes</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B1AB</td>
<td>Introduction to Automotive Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>INDR B20A</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B50</td>
<td>Modern College Arithmetic and Pre-Algebra</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B1A</td>
<td>Introduction to the Welding Process</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Note: Students should consult with their counselors for best possible selections for their programs of study.

Certification of Achievement. Career opportunities include entry level construction trades, estimators, construction supervisors & managers, inspectors, construction educators and Class A, B & C licensed contractors.

To Achieve the Associate in Science
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Industrial Technology, Construction Option Associate in Science degree.

To Transfer Coursework
A minimum of 27 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate proficiency in technical skills and safety principles required for employment in the construction industry.
- demonstrate problem solving skills used in the construction industry.
- demonstrate a deep understanding of the core material required for certification in construction technologies.

Total Units: 27

Required Courses
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH B56</td>
<td>Residential Building Codes</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B1</td>
<td>Introduction to Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>CNST B2</td>
<td>Estimating and Scheduling</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
<tr>
<td>-or equivalent-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNST B50A</td>
<td>Residential Construction</td>
<td>7.0</td>
</tr>
<tr>
<td>-or-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNST B50B</td>
<td>Residential Construction</td>
<td>7.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives — for a total of at least 27 units
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B20A</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B56</td>
<td>Building and Related Codes</td>
<td>3.0</td>
</tr>
<tr>
<td>ARCH B6</td>
<td>Materials of Construction</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Correctional Administration

Correctional Administration Associate in Arts
This program includes classes that will guide students toward careers in law enforcement, the courts and the law, and state, local, and private corrections. These courses have been endorsed by the Joint Apprenticeship Committee of the California Department of Corrections, California Youth Authority, and the California Correctional Peace Officers Association.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Correctional Administration Associate in Arts.
To Transfer Coursework
A minimum of 24 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
- identify, analyze, and apply the fundamental theories and concepts underlying the American correctional system.
- identify and describe the operational elements of the major components comprising the American prison and Jail systems.
- identify, analyze, and apply basic legal principles and rules to factual situations.
- identify and implement the principles and procedures utilized in legitimate scientific and criminal investigation.
- demonstrate multicultural awareness and respect for constitutional and human rights.
- identify, analyze, and apply the ethical components of discretion in decision-making in probation, parole, and institutional corrections.
- demonstrate respect for the dignity and humanity of victims, perpetrators, and wrongfully convicted persons.
- demonstrate the ability to communicate effectively orally and in writing.

Total Units: 24

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B21</td>
<td>Introduction to Correctional Administration</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B50</td>
<td>Criminal Justice Report Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B60</td>
<td>Legal Aspects of Corrections</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B2</td>
<td>Criminal Law</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B12</td>
<td>Forensic and Scientific Aspects of Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B55</td>
<td>Special Topics in Criminal Justice</td>
<td>3.0</td>
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</table>

Electives — at least 6 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B22</td>
<td>Institutional Treatment and Supervision of Offenders</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B23</td>
<td>Fundamentals of Interviewing &amp; Counseling</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B24</td>
<td>Probation, Parole and Community Corrections</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B5</td>
<td>Community Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B8</td>
<td>Criminal Investigation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B9</td>
<td>The Juvenile Justice System</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Program Learning Outcomes
Upon successful completion, the student will:
- identify, analyze, and apply the fundamental theories and concepts underlying the American criminal justice system.
- identify and describe the operational elements of the major components comprising the American justice system.
- identify, analyze, and apply basic legal principles and rules to factual situations.

Total Units: 24

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM B1</td>
<td>Introduction to Criminal Justice</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B2</td>
<td>Criminal Law</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B3</td>
<td>Introduction to Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B4</td>
<td>Constitutional Criminal Procedure</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B12</td>
<td>Forensic and Scientific Aspects of Evidence</td>
<td>3.0</td>
</tr>
<tr>
<td>CRIM B55</td>
<td>Special Topics in Criminal Justice</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Economics

Associate in Arts in Economics for Transfer
The Associate in Arts in Economics for Transfer Degree is designed to prepare students for transfer into the CSU system to complete a baccalaureate degree in Economics or a similar major. It is designed for students interested in preparing for advanced degrees in Economics, Business, or Law, and for those students concerned with the economic behavior of consumers, businesses, and governments. Economics majors have a wide variety of career opportunities in business, law, journalism, education, politics, finance and banking, government, public and private overseas service, and labor leadership. Many economics majors go on to pursue graduate study in a related professional area, such as law, business, or public administration.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtaining of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A 'P' (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes
Upon successful completion, students will be able to:
- Economics students will be able to explain the nature and functioning of the market system.
• Economics students will be able to define criteria for assessing efficiency in the provision of goods and services.
• Economics students will investigate and assess the operation of economic institutions.
• Economics students will be able to evaluate alternative policies intended to enhance economic outcomes.
• Economics students will develop competence in quantitative methods and computing methods.
• Economics students will be able to conceptualize and analyze problems using the tools of economic theory and communicate the results.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON B2</td>
<td>Principles of Economics - Macro</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B1</td>
<td>Principles of Economics - Micro</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Elementary Probability and Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B2</td>
<td>Basic Functions and Calculus for Business</td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
</tbody>
</table>

List A (any one of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B1</td>
<td>Financial Accounting</td>
<td>4.0</td>
</tr>
<tr>
<td>BSAD B2</td>
<td>Managerial Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B2</td>
<td>Introduction to Computer Information Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B23</td>
<td>Finite Mathematics</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
</tbody>
</table>

List B (any one of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6E</td>
<td>Elementary Linear Algebra</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 20-22

Electronics Technology

Electronics Technology Certificate of Achievement

The Bakersfield College Electronics Certificate program will show the world that you have gained the necessary knowledge and skills to perform better on the job. This program of study is widely recognized and modeled after local industry competency standards.

A certified electronic professional often appears more dedicated, more skilled and thus more attractive to prospective employers. Program includes study in the following areas: Electrical theory and components, soldering, wiring diagrams, safety, advanced analog semiconductor and digital devices, power supplies, test equipment, programmable logic controllers, Allen Bradley SLC 500 and CLX 5000 Instrumentation, temperature, pressure, level detectors, radio communications, antenna and transmission lines, telecommunications, video, data, network technology, motor theory and wiring, computer integrated manufacturing, installation and wiring standards, and mechanical systems.

Career opportunities in Electronics Technology include entry level positions in petroleum/energy, manufacturing automation, instrumentation/process control, logistics and distribution, ancillary services, telecommunications, radio communications, food and materials processing, and industrial maintenance.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Electronics Technology Certificate of Achievement.

To Transfer Coursework

A minimum of 33 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 33

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B1</td>
<td>Basic Electronics (DC and AC)</td>
<td>4.0</td>
</tr>
<tr>
<td>ELET B5</td>
<td>Programmable Logic Controllers</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B6</td>
<td>Analog and Digital Electronics</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B55A</td>
<td>Electric Motors-Controls</td>
<td>4.0</td>
</tr>
<tr>
<td>ELET B56</td>
<td>Instrumentation &amp; Process Control</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B61</td>
<td>Telecommunications</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B62</td>
<td>Radio Communications</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B70</td>
<td>Mechanical Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives — at least 4 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B4</td>
<td>Computer Integrated Manufacturing</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B63</td>
<td>Electronic Systems Installation</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>ELET B58</td>
<td>Advanced Programmable Logic Controllers</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>MFGT B1AB</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electronics - Industrial Automation Job Skills Certificate

The Bakersfield College Electronics Certificate program will show the world that you have gained the necessary knowledge and skills to perform better on the job. This program of study is widely recognized and modeled after local industry competency standards.

A certified electronic professional often appears more dedicated, more skilled and thus more attractive to prospective employers.

Program includes study in the following areas: electrical theory and components, soldering, wiring diagrams, safety programmable logic controllers, Allen Bradley SLC 500 and CLX 5000 computer integrated manufacturing. This program prepares students for careers in electronics technology.

Entry level positions in petroleum/energy, manufacturing automation, process control, logistics and distribution, material processing and industrial maintenance.

Program Learning Outcomes

Upon successful completion, the student will:
• demonstrate proficiency in automation programming/troubleshooting related to programmable logic controllers and safety principles required for industrial employment.
• demonstrate problem solving skills used in ladder logic and sequential function charts, to include design and development of programmable logic controllers circuits.
• demonstrate an understanding of the core material and theory related to programmable automation controllers that is required for transfer to a four year university degree program or for certification.

**Total Units: 9**

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B4</td>
<td>Computer Integrated Manufacturing</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B5</td>
<td>Programmable Logic Controllers</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B58</td>
<td>Advanced Programmable Logic Controllers</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Electronics - Industrial Communication**

**Job Skills Certificate**

The Bakersfield College Electronics Certificate program will show the world that you have gained the necessary knowledge and skills to perform better on the job. This program of study is widely recognized and modeled after local industry competency standards. A certified electronic professional often appears more dedicated, more skilled and thus more attractive to prospective employers.

Program includes study in the following areas: electrical theory and components, soldering, wiring diagrams, safety, programmable logic controllers, instrumentation, temperature, pressure, level detectors, motor theory and wiring, installation and wiring standards.

This program prepares students for careers in electronics technology. Entry level positions in petroleum/energy, instrumentation/process control, logistics and distribution, ancillary services, materials processing, and industrial maintenance.

**Total Units: 10**

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B55A</td>
<td>Electric Motors-Controls</td>
<td>4.0</td>
</tr>
<tr>
<td>ELET B56</td>
<td>Instrumentation &amp; Process Control</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B70</td>
<td>Mechanical Systems</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Electronics - Manufacturing Automation**

**Job Skills Certificate**

The Bakersfield College Electronics Certificate program will show the world that you have gained the necessary knowledge and skills to perform better on the job. This program of study is widely recognized and modeled after local industry competency standards. A certified electronic professional often appears more dedicated, more skilled and thus more attractive to prospective employers.

Program includes study in the following areas: electrical theory and components, soldering, wiring diagrams, safety, programmable logic controllers, instrumentation, temperature, pressure, level detectors, computer integrated manufacturing motor theory and wiring, and mechanical systems.

This program prepares students for careers in electronics technology, entry level positions in petroleum/energy, manufacturing, instrumentation/process control, logistics and distribution, ancillary services, food and materials processing, and industrial maintenance.

**Total Units: 9**

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B6</td>
<td>Analog and Digital Electronics</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B61</td>
<td>Telecommunications</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B62</td>
<td>Radio Communications</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Industrial Technology, Electronics Option Associate in Science

Technology runs the planet, with electronics playing an essential role. It is a digital world, and those who understand this world can become valuable additions to technology-focused employers. The Industrial Technology Degree, Electronics Option, teaches essential skills that can be put to use as an industrial technician, electronics technician, field service representative, salesperson or computer technician. A degree holding student will also be looked at for quick promotions into supervision and management positions.

To Achieve the Associate in Science

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Industrial Technology, Electronics Options Associate in Science degree.

To Transfer Coursework

A minimum of 33 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for employment in the electronics industry.
- demonstrate problem solving skills used in electrical design and product development.
- demonstrate a deep understanding of the core material required for certification in the electronics program.

Total Units: 33

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B1</td>
<td>Basic Electronics (DC and AC)</td>
<td>4.0</td>
</tr>
<tr>
<td>ELET B5</td>
<td>Programmable Logic Controllers</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B6</td>
<td>Analog and Digital Electronics</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B55A</td>
<td>Electric Motors-Controls</td>
<td>4.0</td>
</tr>
<tr>
<td>ELET B56</td>
<td>Instrumentation &amp; Process Control</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B61</td>
<td>Telecommunications</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B62</td>
<td>Radio Communications</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B70</td>
<td>Mechanical Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness -or-equivalent-</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives — at least 4 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET B4</td>
<td>Computer Integrated Manufacturing</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B63</td>
<td>Electronic Systems Installation</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B1AB</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Emergency Medical Technology

Emergency Medical Technician-1 (EMT-1)

The Emergency Medical Technician-1 (EMT-1) course consists of 152 hours, which includes 24 hours of emergency room/ambulance experience. The course prepares the student to perform basic emergency care as part of a mobile emergency team. It also provides the student with an understanding of the skills and assessment techniques needed to care for an ill or injured person in the pre-hospital setting. Upon successful completion of the course, students are eligible to take an examination for certification as an Emergency Medical Technician-1. EMT-1s are employed by ambulance companies and some private industries to provide emergency care in cases of illness or injury. The course is required for ambulance personnel, the California Highway Patrol and many other first care providers. Students may later choose to become paramedics.

Enrollment

Enroll through the Bakersfield College Admission and Records Office. The course is offered each fall and spring two evenings per week for 16 weeks. This is a 7.5 unit course.

Pre-admission Requirements

1. Each student must possess a current American Heart Association BLS -Healthcare Provider card. (Bakersfield College offers a BLS course (MEDS B52).
2. Each student must be at least 18 years of age by the completion date of the course.
3. Mandatory physical examination/immunizations and fit testing must be completed 4 weeks after start of the course. Costs of meeting health requirements are paid by the student.
4. Failure to meet these requirements will result in student ineligibility for clinical rotations.

Conditional Enrollment

As a condition of enrollment in any Allied Health Program, students are required to submit to and pass a designated drug and alcohol screening, a background screening, and physical examination clearance (at the student’s expense). Please note the following:

- A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
- If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program. In the event that a student cannot obtain a background clearance, the space will be forfeited. Students who are found to be ineligible for clinical placement by the clinical agency after admission to the program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical rotations.
- A physical examination completed by a physician of the student’s choice is required after acceptance to the Program to demonstrate that a student meets the technical standards necessary to meet the Program objectives. Appropriate immunizations and/or vaccinations and fit testing are also required and are performed at the student’s expense.

Licensure/Certification Eligibility

Students with a misdemeanor and/or felony arrest conviction, either current or prior, may not receive certification or licensure from the State or County. Also, proof of citizenship (social security card and
certified birth certificate) and fingerprinting are required by state
certification/licensure agencies. Anyone who wishes clarification
may contact the Kern County Emergency Medical Services Office
at 661/868-5200. Upon successful completion of the course, students
will be eligible to sit for the National Registry EMT-Basic
Examination.

Accreditation and Program Approval
Bakersfield College is accredited by the Western Association of
Schools and Colleges. The Emergency Medical Technician Program
is approved by Kern County Emergency Medical Services and meets all
state and county requirements.

Emergency Medical Technician 1 (EMT-1)
Job Skills Certificate
This certificate complies with state requirements and ensures
that the student has met the local EMS (Kern County authority)
approval for county protocol training. It is also required for
ambulance personnel and some other first care providers such as
law enforcement and fire personnel. The certificate provides proof
of successful completion of an approved EMT-1 program which
is enforcement and fire personnel. The certificate provides proof
of successful completion of an approved EMT-1 program which
is necessary for the student to take the national licensure exam.
Students must complete the required course with at least a B grade.

Career Opportunities in Emergency Medical Technology
Employment as an emergency medical technician with the fire
department, hospitals, and a variety of healthcare settings statewide.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a 'C' grade in
each course, the student will be awarded an Emergency Medical
Technician 1 (EMT-1) Job Skills Certificate.

To Transfer Coursework
A minimum of 7.5 semester units in the major with a grade of 'C' or
better while maintaining a minimum grade point average of at least
2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate the ability to comprehend, apply, and evaluate
  the clinical information relative to his/her role as an entry
  level EMT-1.
• demonstrate technical proficiency in all skills necessary to
  fulfill the role of the entry level EMT-1.
• demonstrate personal behaviors consistent with professional
  and employer expectations for the entry level EMT-1.

Total Units: 8.0

Required Courses
Course Number   Title                  Units
EMTC B50        Emergency Medical Technician - I   8.0

Engineering
Engineering
Associate in Science
People working in the field of engineering and related technical
fields bridge the gap between scientific principles and the
application of these principles to the needs of society. The field is
quite diversified with exciting job opportunities for people with
varied mathematic, scientific, and technical skills. An engineer
uses experience and judgment, as well as advanced training in
engineering, science, and mathematics to formulate ideas and
designs, and to determine standards, specifications, work orders
and schedules so that projects can be economically beneficial to
mankind. A Bachelor of Science in Engineering is required. Many
engineers earn master’s or doctorate degrees.

To Achieve the Associate in Science
Upon completion of the following courses with at least a 'C' grade in
each course, the student will be awarded an Engineering Associate in
Science degree.

To Transfer Coursework
A minimum of 47 semester units in the major with a grade of 'C' or
better while maintaining a minimum grade point average of at least
2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• solve engineering related problems as related to student
  made projects and assignments.

Total Units: 46

Required Courses
Course Number   Title                  Units
MATH B6A*     Analytic Geometry/Calculus I          4.0
MATH B6B*     Analytic Geometry/Calculus II         4.0
MATH B6C*     Calculus III                         4.0
MATH B6D*     Ordinary Differential Equations      3.0
CHEM B1A*     General Chemistry                    5.0
PHYS B4A*     Mechanics and Wave Motion             4.0
PHYS B4B*     Heat, Electricity, Magnetism          4.0
PHYS B4C*     Optics & Modern Physics               4.0
ENGR B17      Introduction to Electric Circuits     3.0
ENGR B36      Engineering Mechanics-Statics         3.0
ENGR B45      Properties of Materials               3.0
ENGR B19C     Introduction to Programming Concepts and
               Methodologies for Engineers                 3.0
ENGR B47**    Introduction to Engineering and Design 2.0

* May be used to also fulfill general education requirements.
**Meets student development requirement.

Engineering Technology
Associate in Science
Cal Poly Pomona; California State University, Sacramento; California
State University, Long Beach Engineering technologists and
engineering technicians are members of a technical team that also
includes scientists, engineers and craftsmen. The members of the
technical team perform job functions that are complementary and
sometimes overlapping. By virtue of their education, training and
interests, engineering technologists and engineering technicians
are usually differentiated as follows: An engineering technologist
uses applied and basic training in mathematics, science, and
engineering classes, engineering methods learned through classes
and experience, and developed technical (hands-on) skills in
direct support of engineering activities. A Bachelor of Science
degree in Engineering Technology is required. An engineering
technician operates in a support role to aid in design, production,
manufacturing, operations, and maintenance.

Under professional direction, the engineering technician conducts
tests, trouble shooting and analysis, and other similar projects, or
carries out functions such as drafting, surveying, designing and
Bakersfield College offers courses required for two years of engineering technology education. Completion of these courses, called the engineering technology core, prepares students either for transfer to the colleges and universities offering bachelor's degrees in Engineering Technology, or for completion of an Associate in Science degree in Engineering Technology. A beginning engineering technology student should have completed high school mathematics through intermediate algebra or MATH BD/MATH B70 at Bakersfield College, one year of high school drafting, and be eligible for ENGL B50.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Engineering Technology Associate in Science degree.

To Transfer Coursework
A minimum of 40 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate a deep understanding of the core material required for transfer to a four-year university degree program in engineering technology.

Total Units: 40

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR B47**</td>
<td>Introduction to Engineering and Design</td>
<td>2.0</td>
</tr>
<tr>
<td>ENGR B45</td>
<td>Properties of Materials</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGR B24</td>
<td>Engineering Graphics and Descriptive Geometry</td>
<td>3.0</td>
</tr>
<tr>
<td>CHEM B2A*</td>
<td>Introductory General Chemistry</td>
<td>4.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>PHYS B2A*</td>
<td>General Physics-Mechanics and Heat</td>
<td>4.0</td>
</tr>
<tr>
<td>PHYS B2b</td>
<td>General Physics-Sound, Light, Electricity, Magnetism, Modern Physics</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6A*</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B*</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>ENGR B19C</td>
<td>Introduction to Programming Concepts and Methodologies for Engineers</td>
<td>3.0</td>
</tr>
</tbody>
</table>

* May be used to also fulfill general education requirements
**Meets student development requirement

**Electives — at least 6 units from the following**

See counselor or advisor for specific courses in the following areas:
• Electronics/Electrical Technology
• Construction Technology
• Manufacturing Processes Technology
• Welding/Fabrication
• Industrial Drawing
• Graphics

**Meets student development requirement**

* May be used to also fulfill general education requirements

**English**

**Associate in Arts in English for Transfer**

The Associate in Arts in English for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in English or a similar major. The Associate in Arts in English for Transfer degree provides a study of literature and expository writing. English majors will be able to analyze literary work and will be able to demonstrate an understanding of and an ability to describe ways in which literature reflects historical, intellectual, and cultural contexts, as well as aesthetic tastes; English majors will be able to evaluate literature and expository and argumentative papers and essays through application of critical thinking techniques; and they will be able to write logical and coherent expository and argumentative papers, essays, summaries, and paraphrases using correctly the standard conventions of written English. Many employers value the writing and critical thinking skills acquired by English majors.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   • A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes
Upon successful completion, the student will be able to:
• write logical and coherent expository and argumentative papers, essays, summaries, and paraphrases using correctly the standard conventions of written English.
• demonstrate an understanding of and an ability to describe ways in which literature reflects historical, intellectual, and cultural contexts, as well as aesthetic tastes.
• evaluate literature and expository and argumentative papers and essays through application of critical thinking techniques.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B1B</td>
<td>Intro to Types of Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B2</td>
<td>Advanced Composition and Critical Thinking</td>
<td>4.0</td>
</tr>
<tr>
<td>ENGL B3</td>
<td>Argumentative Writing and Critical Thinking Through Literature</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**List A (any two of the following courses)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B5A</td>
<td>Survey of English Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B5B</td>
<td>Survey of English Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B20A</td>
<td>Survey of World Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B30A</td>
<td>Survey of American Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B30B</td>
<td>Survey of American Literature</td>
<td>3.0</td>
</tr>
</tbody>
</table>
List B (3 or 6 units based on option chosen in Required Core)

Course Number | Title                        | Units
---            | -----------------------------|-----
ENGL B10      | Introduction to Shakespeare  | 3.0
-and/or-      |                              |     
ENGL B41A     | Introduction to Creative Writing | 3.0

List C (3 units)

Course Number | Title                        | Units
---            | -----------------------------|-----
ENGL B21      | African-American Literature  | 3.0
ENGL B24      | Latino/a Literature          | 3.0
ENGL B27      | The Bible as Literature      | 3.0
ENGL B28      | Classical Mythology          | 3.0
ENGL B41A     | Introduction to Creative Writing | 3.0

Total required units: 19

Fire Technology

Fire Technology Certificate of Achievement

This certificate was developed to assist students who desire to become a firefighter, or desire Fire Technology as a career. This certificate will aid existing firefighters in promoting/advancing through the ranks of engineer, captain, battalion chief, etc. The Bakersfield Fire Department requires an associate degree before a captain can take the promotional exam for battalion chief. This course of study will transfer to a four-year institution.

Note: FIRE B1 is a prerequisite and must be completed before taking other core fire technology courses. FIRE B1 can be waived if the student has completed either academy (B62 or B63) and B2 can be waived for students who have a minimum of two years continuous experience as a full-time paid firefighter. A GPA of at least 2.0 is required in the fire technology program. Of the 30 units required, a minimum of 12 units must be completed at Bakersfield College.

Bakersfield College’s Regional Fire Technology Academy (RFTA) was authorized by the California Fire Service Training and Education System in 1980, with programs of study leading to Certified Fire and Certified Fire Chief. RFTA sponsors many cooperative training programs with federal, state, and local fire protection agencies. Individuals may develop a program suitable to their career goals with the aid of a college counselor. Courses may lead to the achievement of specific career goals, immediate employment, an associate degree, or transfer credits that satisfy requirements for a bachelor’s degree in Fire Technology.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Fire Technology Certificate of Achievement.

To Transfer Coursework
A minimum of 33.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
* identify minimum qualifications and entry-level skills for firefighter hiring.
* describe the following elements:
  * application process.
  * written exam process.
  * physical agility exam.
  * oral interview.
  * chief’s interview.
  * background investigation.
  * fire fighter probationary process.
* identify fire service history, culture, and diversity.
* demonstrate the ability to analyze, appraise, and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety, including:
  * size-up.
  * report on conditions.
  * Incident Command System.
  * RECEO.
  * 10 Standard Firefighting Orders.
  * 18 Situations that shout “Watch Out.”
  * common factors associated with injuries and line of duty deaths.

Total Units: 33.5-36.5

Required Courses

Course Number | Title                                               | Units
---            | ----------------------------------------------------|-----
FIRE B1        | Fire Protection Organization                        | 3.0
FIRE B2        | Principles of Fire and Emergency Services Safety and Survival | 3.0
-and/or-      |                                                      |     
FIRE B7        | Building Construction for Fire Protection           | 3.0
FIRE B3        | Fire Command, Strategy, & Tactics                   | 3.0
-and/or-      |                                                      |     
FIRE B51B      | Fire Command 1A                                     | 2.0
FIRE B4        | Fire Behavior and Combustion                        | 3.0
FIRE B5        | Fire Prevention                                     | 3.0
-and/or-      |                                                      |     
FIRE B51D      | Fire Prevention 1A                                  | 2.0
FIRE B51E      | Fire Prevention 1B                                  | 2.0
-and-         |                                                      |     
FIRE B52H      | Emergency Medical Technician 1                       | 7.5

Required General Education Courses

Course Number | Title                                               | Units
---            | ----------------------------------------------------|-----
ENGL B50*      | Introduction to College Composition                  | 4.0
-and-         |                                                      |     
ENGL B1A       | Expository Composition                               | 3.0
PSYC B1A       | General Psychology                                   | 3.0
-and-         |                                                      |     
SOCI B1        | Introduction to Sociology                            | 3.0
COMM B1        | Public Speaking                                      | 3.0
-and-         |                                                      |     
COMM B2        | Interpersonal Communication                          | 3.0
COMM B4        | Persuasive Communication                             | 3.0
-and-         |                                                      |     
COMM B8        | Small Group Communication                            | 3.0

*ENGL B60 may be substituted for ENGL B50 or ENGL B1a for Fire Technology Certificate of Achievement only.

Note: FIRE B1 and B2 are waived for students who have a minimum of two years service as a paid, full-time firefighter. A GPA of at least 2.0 is required in the certificate program. Of the 33.5-36.5 units required, a minimum of 12 units must be completed at Bakersfield College.
Fire Technology Associate in Arts

This degree program of study was developed to assist students who desire to become a firefighter, or desire Fire Technology as a career. This certificate will aid existing firefighters in promoting/advancing through the ranks of engineer, captain, battalion chief, etc. The Bakersfield Fire Department requires an associate degree before a captain can take the promotional exam for battalion chief. This course of study will transfer to a four-year institute.

Note: FIRE B1 is a prerequisite and must be completed before taking other core fire technology courses. FIRE B1 can be waived if the student has completed either academy (B62 or B63) and B2 can be waived for students who have a minimum of two years continuous experience as a full-time paid firefighter. A GPA of at least 2.0 is required in the fire technology program. Of the 30 units required, a minimum of 12 units must be completed at Bakersfield.

Bakersfield College’s Regional Fire Technology Academy (RFTA) was authorized by the California Fire Service Training and Education System in 1980, with programs of study leading to Certified Fire and Certified Fire Chief. RFTA sponsors many cooperative training programs with federal, state, and local fire protection agencies. Individuals may develop a program suitable to their career goals with the aid of a college counselor. Courses may lead to the achievement of specific career goals, immediate employment, an associate degree, or transfer credits that satisfy requirements for a bachelor’s degree in Fire Technology.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Fire Technology Associate in Arts degree.

To Transfer Coursework
A minimum of 25.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- identify minimum qualifications and entry-level skills for firefighting hiring.
- demonstrate the ability to analyze, appraise and evaluate fire and emergency incidents.
- identify and comprehend laws, regulations, codes and standards that influence fire department operations and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances, and firefighter health and safety.
- analyze the causes of fire, determine extinguishing agents and methods, differentiate the stages of the fire and fire development, and compare methods of heat transfer.
- identify and describe the apparatus used in the fire service, and the equipment and maintenance of fire apparatus and equipment.
- identify and describe common types of building construction and conditions associated with structural collapse and firefighter safety.
- differentiate between fire detection and fire suppression systems.

Total Units: 25.5

Wildland Fire Technology Associate in Science

This degree is designed for people who desire to enter or enhance their career in a state or federal wildland firefighting agency. The course material is linked with the National Multi-Agency Coordinating Group certification process. Students are given the opportunity to take several didactic and practical tests administered throughout the program to attain both state and national level wildland competencies. The core curriculum includes certification material to secure the basic wildland red card needed for employment in a wildland fire agency. Additional course work is designed to meet or exceed the National Fire Protection Association’s 1051 Standard on Wildland Fire Fighter Professional Qualifications. The elective material is designed to allow a student to obtain some degree of specialization that may tailor a student's education to qualify for supervisor positions in a wildland organization. Students may be placed in paramilitary and physically demanding environments designed to introduce the student to the job tasks and skills required to operate in the wildland fire services. Career opportunities include the Forest Service and the Bureau of Land Management. Discharged military service personnel can use their military service time towards their career in the Forest Service or the BLM.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Wildland Fire Technology Associate in Science degree.

To Transfer Coursework
A minimum of 30 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

- differentiate influences effecting fire behavior.
- determine safety zones and escape routes.
- establish suppression priorities.
- describe the role of the public information officer in overall incident organization.
- compose planning section written objectives.

Total Units: 30

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B1</td>
<td>Fire Protection Organization</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B2</td>
<td>Principles of Fire and Emergency Services</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B3</td>
<td>Fire Command, Strategy, Tactics</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B4</td>
<td>Fire Behavior and Combustion</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B5</td>
<td>Fire Prevention</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B6</td>
<td>Fire Protection Equipment and Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B7</td>
<td>Building Construction for Fire Protection</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B25A</td>
<td>Wildland Fire Behavior</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B25B</td>
<td>Wildland Firefighter Safety &amp; Survival</td>
<td>3.0</td>
</tr>
<tr>
<td>FIRE B25C</td>
<td>Wildland Fire Operations</td>
<td>3.0</td>
</tr>
</tbody>
</table>

FIRE B25H
Emergency Medical Technician
7.5
Upon successful completion, the student will:

- define the components of the Incident Command System.
- describe the organizational structure used within large scale hazardous materials incidents, including basic duties and responsibilities of key division positions such as incident commander, safety officer, and public information officer.
- list the common types of high-rise hazards and concerns during fire suppression operations.
- describe the history of emergency management and planning for large scale disasters.
- list command tasks and responsibilities associated with emergency operations involving wild land fires.
- analyze and write policy statements that guide fire service organizations.
- develop general personnel administration practices consistent with local, state, and federal statutory and regulatory requirements.
- describe the ten steps of the planning process.
- identify the roles and responsibilities of management personnel within the organization.
- diagram a sample Unified Command structure for a major incident simulation.

Total Units: 22

**Chief Officer Certification (NFPA Standard 1021) Certificate of Achievement**

The Fire Chief Certification will prepare students currently employed in fire science occupations to qualify for promotions such as to Battalion Chief and higher. This training utilizes curricula developed by the California Fire Service Training and Education System (CFSTES, the training branch of the California State Fire Marshall) and meets California Board of Fire Services standards. Certification as a CFSTES Fire Officer provides in-service fire personnel the ability to promote and advance in their careers and may provide for educational pay incentives.

**To Achieve the Certificate of Achievement**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Chief Officer Certification (NFPA Standard 1021) Certificate of Achievement.

**To Transfer Coursework**

A minimum of 22 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- analyze and assess causes of firefighter fatalities and injuries and safety measures to protect personnel.
- demonstrate the ability to make decisions and communicate an action plan for a hazardous materials incident.
- analyze the relationship between fire prevention efforts and the reduction of life and property loss.
- apply codes to simulated fire prevention inspection violations.
- diagram the management cycle and define each element.
- identify Benjamin Bloom and Dr. Bloom’s contribution to educational development.
- define the four-step method of instruction and how it applies to technical lessons.
- identify state arson laws and legal aspects of fire scene investigation.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B26A</td>
<td>Initial Attack Incident Commander Type 4</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>(ICT4) (S-200)</td>
<td></td>
</tr>
<tr>
<td>FIRE B26D</td>
<td>Interagency Incident Business Management</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>S-260</td>
<td></td>
</tr>
<tr>
<td>FIRE B26E</td>
<td>Fire Operations in the Wildland Urban</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Interface (S-215)</td>
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</tr>
<tr>
<td>FIRE B26G</td>
<td>S-230 Crew Boss Single Resource</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE B26K</td>
<td>Field Observer (S-244)</td>
<td>1.5</td>
</tr>
<tr>
<td>FIRE B26M</td>
<td>Display Processor (S-245)</td>
<td>1.0</td>
</tr>
<tr>
<td>FIRE B27B</td>
<td>1-300 Intermediate Incident Command System</td>
<td>1.5</td>
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<tr>
<td>FIRE B28B</td>
<td>L-280 Followership to Leadership</td>
<td>0.5</td>
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<tr>
<td>FIRE B50A</td>
<td>Fire Command 2-Command Tactics at Major</td>
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<tr>
<td></td>
<td>Fires</td>
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<tr>
<td>FIRE B50B</td>
<td>Fire Command 2b-Scene Management at Major</td>
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<tr>
<td></td>
<td>Incidents</td>
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<tr>
<td>FIRE B50C</td>
<td>Fire Command 2c-High-Rise Fire Tactics</td>
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<tr>
<td>FIRE B50D</td>
<td>Fire Command 2d-Management of</td>
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<tr>
<td></td>
<td>Large-Scale Disasters</td>
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<tr>
<td>FIRE B50E</td>
<td>Fire Command 2e-Wildland Tactics</td>
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</tr>
<tr>
<td>FIRE B50F</td>
<td>Fire Management 2a-Organizational</td>
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<tr>
<td></td>
<td>Development and Human Relations</td>
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</tr>
<tr>
<td>FIRE B50G</td>
<td>Fire Management 2b, Fire Service Financial</td>
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<tr>
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<td>Management</td>
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<tr>
<td>FIRE B50H*</td>
<td>Fire Management 2c-Computer</td>
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<tr>
<td></td>
<td>Application for the Fire Service</td>
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<tr>
<td>FIRE B50I</td>
<td>Fire Management 2D-Strategic Planning</td>
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<tr>
<td>FIRE B50J</td>
<td>Fire Management 2e, Ethics and the Challenge</td>
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</tr>
<tr>
<td></td>
<td>of Leadership</td>
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</tr>
<tr>
<td>FIRE B50K*</td>
<td>Fire Investigation</td>
<td>2.0</td>
</tr>
</tbody>
</table>

*Courses are offered from State Fire Marshall’s Office only.

**Fire Officer Certification (NFPA Standard 1021) Certificate of Achievement**

The Fire Officer Certification will prepare students currently employed in fire science occupations to qualify for promotions such as to fire officer. This training utilizes curricula developed by the California Fire Service Training and Education System (CFSTES, the training branch of the California State Fire Marshall) and meets California Board of Fire Services standards. Certification as a CSFM Fire Officer provides in-service fire personnel the ability to promote and advance in their careers and may provide for educational pay incentives.

**To Achieve the Certificate of Achievement**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Fire Officer Certification (NFPA Standard 1021) Certificate of Achievement.

**To Transfer Coursework**

A minimum of 18 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- diagram a sample Unified Command structure for a major incident simulation.
List ICS positions and duties and describe the positions to the level of deputies.

Total Units: 18

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B51A</td>
<td>Fire Management 1a</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51B</td>
<td>Fire Command 1a</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51C</td>
<td>Fire Command 1b</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51D</td>
<td>Fire Prevention 1a</td>
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</tr>
<tr>
<td>FIRE B51E</td>
<td>Fire Prevention 1b</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51F</td>
<td>Fire Investigation 1a</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51G</td>
<td>Training Instructor 1a</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B51H</td>
<td>Training Instructor 1b</td>
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<tr>
<td>FIRE B51I</td>
<td>Fire Prevention 1C</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Fire Academy Job Skills Certificate**

The Fire Academy Job Skills Certificate will prepare the student for entry level firefighter positions, and provide the minimum training required to become a reserve firefighter. It provides the basic educational and practical training essential for firefighting, including the advanced study of organizational procedures; forcible entry tools; protective breathing apparatus; inspection procedures; fire protection equipment and systems; wildland fire control; fire behavior; and petroleum fire procedures.

Program Learning Outcomes

Upon successful completion, the student will:

- Demonstrate written and verbal communication skills.
- Demonstrate written and verbal communication skills required for entry-level firefighter positions.
- Analyze emergency and hazardous conditions that are inherent to the firefighting profession.

Total Units: 12.5

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B62</td>
<td>Fire Fighter I Academy</td>
<td>12.5</td>
</tr>
</tbody>
</table>

**Fire Fighter I Academy Certificate of Achievement**

The Certificate of Achievement, Fire Fighter I Academy is designed to meet the training and educational requirements established by the State Fire Marshal’s Office for Fire Fighter I certification. The program will prepare students for the national registry exam and certification as a California State Emergency Medical Technician. After successful completion of this certificate, students will be authorized to take the National Registry EMT examination.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a “C” grade in each course, a student will be awarded a Fire Fighter I Academy Certificate of Achievement.

Program Learning Outcomes

- Perform skills that meet National Fire Protection Association Standard 1001 for Fire Fighter and California State Fire Marshal Standards for Fire Fighter.
- Demonstrate written and verbal communication skills required for entry-level firefighter positions.

Total Units: 3.0

- Analyze emergency and hazardous conditions that are inherent to the firefighting profession.
- Describe basic building construction techniques, terms and features: In a short essay describe how fire affects the four basic building materials in use today.
- Objective - “Examine the basics of chemistry and physics of fire”: In an essay define and provide an example of “stratification” as it applies to structural firefighting.
- Objective - “Demonstrate advancing fire hose lines, both charged and uncharged”: Given an uncharged hose line, and using identified techniques and safety guidelines, the fire crew shall demonstrate the proper procedure to advance an uncharged hose line over a ladder.
- State the role and responsibilities of the EMT 1.
- List various methods used to manage wounds and control bleeding and shock.
- Identify basic knowledge of cardiac and respiratory emergencies and demonstrate ability to provide emergency care.

Wildland Firefighting Job Skills Certificate

The Wildland Firefighting Job Skills Certificate will prepare students for a career in wildland firefighting, to work on the fire ground, and be red carded. This job skills certificate is required for the student to apply for a wildland firefighter position. The certificate will provide students with a basic understanding of wildland firefighting principles, tactics, organization, and fireline safety. It includes training in the identification and operation of wildland fire tools and equipment, water-handling equipment, and fireline construction practices.

To Achieve the Job Skills Certificate

Upon completion of the following courses with a grade of ‘C’ or better in each course, students will be awarded a Wildland Firefighting Job Skills Certificate.

Program Learning Outcomes

Upon successful completion, the student will:

- Explain and demonstrate an understanding of wildland fire service organizations.
- Describe and explain the environmental factors of fire behavior which affect a wildfire.
- Demonstrate an understanding of important safety practices involved in wildland firefighting.
- Identify and operate common wildland firefighting hand tools and equipment.
- Explain and demonstrate how to construct a fireline.
- Analyze information on water-handling equipment.

Total Units: 22.5

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B64</td>
<td>Firefighter I Academy</td>
<td>15.0</td>
</tr>
<tr>
<td>FIRE B72h</td>
<td>Emergency Medical Technician</td>
<td>7.5</td>
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</table>
### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE B71A</td>
<td>Seasonal Firefighter Basic Training</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE B71B</td>
<td>Seasonal Firefighter Basic Training</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### Fire Technology EMT Job Skills Certificate

Designed to certify students as California State Emergency Medical Technicians and gain employment as a Firefighter or ambulance driver or ambulance attendant or law enforcement officer. After successful completion of this course, students will be authorized to take the Kern County EMS, California State Fire Marshal and or the National Registry EMT examinations. Topics discussed include pre-hospital care terminology, cardiovascular emergencies, pre-hospital childbirth, communicable disease, extrication tools and equipment, automatic external defibrillation and an understanding of the emergency medical system. Course content is based on the guidelines and authority of Title 22, Division 9 of the California Code of Regulations, as well as the U.S. Department of Transportation Emergency Medical Technician-Based Standard National Curriculum, National Registry EMT Examinations. Students must be 18 years of age and have a current CPR card (Title 22, Division 9 of the California Code of Regulations). Students are responsible for paying any certification fees.

### Program Learning Outcomes

Upon successful completion, the student will:
- demonstrate the ability to comprehend, apply, and evaluate the clinical information relative to his/her role as an entry level EMT-1.
- demonstrate technical proficiency in all skills necessary to fulfill the role of the entry level EMT-1.
- demonstrate personal behaviors consistent with professional and employer expectations for the entry level EMT-1.

Total Units: 7.5

### Foods/Nutrition

#### Child Nutrition Management Certificate of Achievement

Program emphasizes quality food production, production records, nutrition standards and student service in child nutrition programs including public and private schools, child-care centers and day-care centers.

A Sanitation Certificate such as ServSafe or equivalent is required for this certificate.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Child Nutrition Management Certificate of Achievement.

To Transfer Coursework

A minimum of 25.5-31 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

### Program Learning Outcomes

Upon successful completion, the student will:
- practice proper basic principles of food safety (sanitation) and their application to food service operations and procedures.
- practice the principles and methods of food preparation emphasizing use of standardized recipes, industry production standards, and development of work skills.
- perform dining room service function using a variety of types of service and demonstrate and understanding of quality customer service.
- have an understanding of a supervisor’s role and responsibilities in managing a food service operation.
- maximize nutritional retention in food preparation and storage and application of nutritional principles in menu planning.
- demonstrate basic baking principles and to apply fundamentals to the preparation of a variety of products.

Total Units: 25.5-31

### Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSV B50</td>
<td>Introduction to the Foodservice Industry</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B52</td>
<td>Foodservice Sanitation and Safety</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55A</td>
<td>Food Service Production Theory I</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55C</td>
<td>Food Service Production Laboratory I</td>
<td>2.0</td>
</tr>
<tr>
<td>NUTR B10</td>
<td>Elementary Nutrition</td>
<td>3.0</td>
</tr>
<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
<td>2.0</td>
</tr>
<tr>
<td>ENGL</td>
<td>English Course</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP</td>
<td>Computer Studies Course</td>
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</table>

### Electives — for a total of at least 25.5 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSV B55A</td>
<td>Food Service Production Theory I</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55B</td>
<td>Food Service Production Theory II</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55C</td>
<td>Food Service Production Laboratory I</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55D</td>
<td>Food Service Production Laboratory II</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B59</td>
<td>Food Service Production Management</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Culinary Arts Certificate of Achievement

Program emphasizes quality food production and service in commercial and institutional food service operations. Course work includes practical training in the campus restaurant, the Renegade Room.

A sanitation certificate such as ServSafe or equivalent is required for this Certificate.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Culinary Arts Certificate of Achievement.

To Transfer Coursework

A minimum of 24.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

### Program Learning Outcomes

Upon successful completion, the student will:
• perform dining room service function using a variety of types of service and demonstrate an understanding of quality customer service.
• practice proper basic principles of food safety (sanitation) and their application to food service operations and procedures.
• practice the principles and methods of food preparation emphasizing use of standardized recipes, industry production standards, and development of work skills.
• maximize nutrient retention in food preparation and storage and application of nutritional principles and to apply fundamentals to the preparation of a variety of products.
• have an understanding of a supervisor’s role and responsibilities in managing a food service operation.

Total Units: 24.5

Required Courses (including completion of the ServSafe exam)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSV B50</td>
<td>Introduction to the Foodservice Industry</td>
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</tr>
<tr>
<td>FDSV B51</td>
<td>Food and Nutrition Orientation</td>
<td>0.5</td>
</tr>
<tr>
<td>FDSV B52</td>
<td>Foodservice Sanitation and Safety</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55A</td>
<td>Food Service Production Theory I</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55B</td>
<td>Food Service Production Theory II</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55C</td>
<td>Food Service Production Laboratory I</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55D</td>
<td>Food Service Production Laboratory II</td>
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<tr>
<td>FDSV B55E</td>
<td>Fundamentals of Baking</td>
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<td>FDSV B55F</td>
<td>Food and Nutrition Internship</td>
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<tr>
<td>NUTR B10</td>
<td>Elementary Nutrition</td>
<td>3.0</td>
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<tr>
<td>WEXP B248</td>
<td>Occupational Work Experience Education</td>
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<tr>
<td>FDSV B55I</td>
<td>Food and Nutrition Orientation</td>
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</tr>
<tr>
<td>FDSV B55J</td>
<td>Food Service Production Management</td>
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</tr>
</tbody>
</table>

Dietetic Services Supervisor Program Certificate of Achievement

Program provides training for students planning employment in the food service department of a health care operation. Courses in this program meet State of California Department of Health Services certification requirements. Consult with a member of the Foods and Nutrition Program staff before scheduling courses in the program. At this time appropriate clinical field experience will be planned. A sanitation certificate such as ServSafe or equivalent is required for this certificate.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Dietetic Services Supervisor Program Certificate of Achievement.

To Transfer Coursework

A minimum of 18.5 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:
• locate the state and federal laws and regulations applicable to food service operations in health care (California Code of Regulations, Title 22 Federal Code of Regulations, Business and Professions Code of Registered Dietitians and Dietetic Technicians Registered, FDA Food Code, etc.).
• utilizing the above references laws, and in conjunction with the registered dietitian, determine compliance with regulations and acceptable standards of care.
• identify the role and limitations of the Dietary Service Supervisor under Title 22.
• review, with a registered dietitian, a facility’s policies and procedures to ensure that they are in compliance with regulations and standards of practice.
• locate diet manuals and show ability to use them by making menu substitutions to meet the nutritional needs of residents/patients in accordance with standard of care.
Upon successful completion, the student will:

- help registered dietitian ensure that menus and standardized recipes are followed by food service staff. Help develop standardized menus.
- ensure that food is prepared and served by methods that conserve nutritive value, flavor, and appearance. Ensure that food is prepared to meet individual texture and nutrient needs and that substitutions are of similar nutritive value.
- ensure that residents/patients receive and consume foods as prescribed by the physician. Document diet prescriptions, food preferences, and the possible need for texture modification and/or assistance during meal times by maintaining and updating card profiles.
- protect food in all phases of preparation. Ensure that food is inspected for quality upon receiving, then stored, prepared, and served under sanitary conditions to prevent food borne illness. Sanitation oversight includes all food service department areas and components such as storage rooms, refrigerators/freezers, food preparation, and service equipment and surfaces, tray lines, and carts.
- assist with day to day operations such as:
  - food forecasting, ordering, storage, preparation, and service.
  - employee staffing schedules.
  - employee health and safety programs.
  - labor relations.
  - employee orientation and ongoing planned staff development.

Total Units: 18.5

Required Courses (including completion of the ServSafe exam)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSV B50</td>
<td>Introduction to the Foodservice Industry</td>
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</tr>
<tr>
<td>FDSV B51</td>
<td>Food &amp; Nutrition Orientation</td>
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</tr>
<tr>
<td>FDSV B52</td>
<td>Foodservice Sanitation and Safety</td>
<td>2.0</td>
</tr>
<tr>
<td>FDSV B55A</td>
<td>Food Service Production Theory I</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55B</td>
<td>Food Service Production Theory II</td>
<td>2.5</td>
</tr>
<tr>
<td>FDSV B55C</td>
<td>Food Service Production Laboratory I</td>
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</tr>
<tr>
<td>FDSV B55E</td>
<td>Advanced Food Service Practicum</td>
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<tr>
<td>FDSV B55I</td>
<td>Food and Nutrition Internship</td>
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</tr>
<tr>
<td>FDSV B59</td>
<td>Food Service Production Management</td>
<td>3.0</td>
</tr>
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<td>NUTR B10</td>
<td>Elementary Nutrition</td>
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</tr>
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<td>NUTR B50</td>
<td>Modified Diets</td>
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<tr>
<td>FDSV B64A</td>
<td>Dietetic Service Supervisor Practicum</td>
<td>2.0</td>
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</table>

Foodservice Management Option

Associate in Science

A sanitation certificate such as ServSafe or equivalent is required for this associate degree.

To Achieve the Associate in Science

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Foodservice Management Option Associate in Science degree.

To Transfer Coursework

A minimum of 29.5 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:
- perform dining room service function using a variety of types of service and demonstrate an understanding of quality customer service.
- maximize nutrient retention in food preparation and storage and application of nutritional principles and to apply fundamentals to the preparation of a variety of products.
- demonstrate basic baking principles and to apply fundamentals to the preparation of a variety of products.
- have an understanding of a supervisor's role and responsibilities in managing a food service operation.

Total Units: 29.5

Geology

Associate in Science in Geology for Transfer

The Associate in Science in Geology Degree for Transfer is designed to provide students a clear pathway to the CSU Geology major and completion of the Geology baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units.

The Associate in Science in Geology Degree for Transfer provides a path to students who wish to transfer to a CSU in the field of geology and serves the diverse needs of students who wish to obtain a broad and an in-depth understanding of the geological sciences. Additionally, the Associate of Science in Geology Degree for Transfer allows students to learn the fundamental principles and practices of geology in order to create a solid foundation for their future personal, academic, or vocational endeavors.

The Associate of Science in Geology Degree for Transfer also provides solid preparation that is appropriate for a variety of scientific disciplines.

The major in geology is appropriate for interested students who desire to be employed within the local petroleum industry working as a geology technician or seeking a solid science background for the teaching profession. The major is designed to provide students with a strong general education in math and science, introduction to physical and historical geology, as well as a general introduction to basic engineering skills.

The following is required for the completion of all AA-T or AS-T degrees:
1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes
Upon successful completion, students will be able to:
• Students will analyze major forces, events, and people instrumental in shaping human history.
• Students will examine past social/cultural value systems which have formed a basis for human beliefs and challenges to those beliefs.
• Students will analyze the various racial, ethnic and social sub/groups which have played a role in the shaping of human history.
• Students will evaluate historical evidence using both primary and secondary sources.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL B10</td>
<td>Introduction to Geology</td>
<td>3.0</td>
</tr>
<tr>
<td>GEOL B10L</td>
<td>Introduction to Geology Laboratory</td>
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</tr>
<tr>
<td>GEOL B11</td>
<td>Historical Geology</td>
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<td>GEOL B11L</td>
<td>Historical Geology Laboratory</td>
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</tr>
<tr>
<td>CHEM B1A</td>
<td>General Chemistry I</td>
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<tr>
<td>CHEM B1B</td>
<td>General Chemistry &amp; Chemical Analyses</td>
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</tr>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
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<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
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</tr>
<tr>
<td>Total required units</td>
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<td>26.0</td>
</tr>
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</table>

History

Associate in Arts in History for Transfer
The Associate in Arts in History for Transfer Degree is designed to provide students a clear transfer pathway to the CSU history major and completion of the history baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. Historians analyze the events and processes of the past, both to gain more understanding of human nature, in any place and at any time, and to explain the distinctive dynamics of particular societies, usually in regional and chronological contexts. Historical study is an important part of the liberal arts program and the development of critical thinking skills. Most careers in history require education beyond the associate degree and some require a graduate degree. The study of history can serve as preparation for graduate study in education, law, business, government and journalism. Many employers value the writing and critical thinking skills acquired by History majors. Successful completion of the Associate in Arts in History for Transfer Degree guarantees the student acceptance to a local California State University to pursue a baccalaureate degree.

The following is required for the completion of all AA-T or AS-T degrees:
1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes
Upon successful completion, students will be able to:
• Students will analyze major forces, events, and people instrumental in shaping human history.
• Students will examine past social/cultural value systems which have formed a basis for human beliefs and challenges to those beliefs.
• Students will analyze the various racial, ethnic and social sub/groups which have played a role in the shaping of human history.
• Students will evaluate historical evidence using both primary and secondary sources.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST B17A</td>
<td>History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B17B</td>
<td>History of the United States since 1870</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List A (any two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST B1</td>
<td>World History from the Origins of Civilizations to 1600</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B4A</td>
<td>European Civilization</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B2</td>
<td>History of the World (Since 1650)</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B4B</td>
<td>European Civilization</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List B (one course from each group)

Group 1

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST B1</td>
<td>World History from the Origins of Civilizations to 1600</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B2</td>
<td>History of the World (Since 1650)</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B20A</td>
<td>African American History of the United States</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B20B</td>
<td>African American History/U.S.</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30A</td>
<td>Early Chicano History</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30B</td>
<td>History of Chicanos in the Southwest</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B33</td>
<td>Latin American History</td>
<td>3.0</td>
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</table>

Group 2

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON B2</td>
<td>Principles of Economics-Macro</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B18</td>
<td>History of California</td>
<td>3.0</td>
</tr>
<tr>
<td>POLS B1</td>
<td>American Government: National, State and Local</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units 18

Human Services

Human Services

Job Skills Certificate

The Human Service Job Skills Certificate emphasizes classroom instruction as well as hands-on-experience through interning with community human services agencies. The field of human
services is very broad. It is concerned with meeting human needs and improving the overall quality of people’s lives. The field is interdisciplinary, meaning that knowledge from a variety of other fields of study is applied to the overall goal of helping people.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Human Services Job Skills Certificate.

To Transfer Coursework
A minimum of 15 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will
• Demonstrate an understanding of the perspectives, theories, methods and core concepts of the behavioral sciences.
• Explain the major problems and issues in the disciplines in their contemporary, historical and geographical contexts.
• Demonstrate an understanding of an ability to describe the contributions and perspectives of women, ethnic and other minorities and Western and non-Western peoples.

Total Units: 15

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B50</td>
<td>Introduction to College Composition</td>
<td>4.0</td>
</tr>
<tr>
<td>HMSV B40</td>
<td>Introduction to Human Services</td>
<td>3.0</td>
</tr>
<tr>
<td>HMSV B5</td>
<td>Human Services Internship</td>
<td>2.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Human Services Associate in Arts
The major in human services provides the student with an academic background for entry-level positions in various human services agencies. It also prepares the student for upper-division work in human services and other behavioral sciences. The field is interdisciplinary with the overall career goal of helping people.

To Achieve the Associate in Arts
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Human Services Associate in Arts degree.

To Transfer Coursework
A minimum of 19 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will
• Demonstrate an understanding of the perspectives, theories, methods and core concepts of the behavioral sciences.
• Explain the major problems and issues in the disciplines in their contemporary, historical and geographical contexts.
• Demonstrate an understanding of an ability to describe the contributions and perspectives of women, ethnic and other minorities and Western and non-Western peoples.

Total Units: 19

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMSV B40</td>
<td>Introduction to Human Services</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B1</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B45</td>
<td>Minority Relations</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B1A</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B40</td>
<td>Introduction to Lifespan Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>CHDV B21</td>
<td>Child Growth and Development: Birth Through Adolescence</td>
<td>3.0</td>
</tr>
</tbody>
</table>

In addition, a total of four units of HMSV B5 is required. Two units are permitted in a given semester. All units must be completed in agencies where assignment and supervision is approved by the Program Coordinator. Students wishing to enroll in HMSV B5 must have completed HMSV B40.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMSV B5</td>
<td>Human Services Internship</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Industrial Drawing

AutoCAD Job Skills Certificate
This certificate covers the principles of industrial drawing/CAD with the emphasis on using the AutoCAD software package from basic 2D principles through 3D solid modeling to obtain graphic solutions, design refinements, modifications and delineations. Software customization is also emphasized. Career opportunities include drafter, CAD operator, engineering tech, CAD manager, and architecture CAD operator.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an AutoCAD Job Skills Certificate.

To Transfer Coursework
A minimum of 8 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 8

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDR B20A</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B20B</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Industrial Drawing Associate in Arts
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Industrial Drawing Associate in Arts degree.
To Transfer Coursework
A minimum of 20 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.

Total Units: 20

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDR B20A</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B50</td>
<td>Process Piping</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B51</td>
<td>Electrical Design</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B52</td>
<td>Geographic Information Systems (GIS)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B40</td>
<td>Parametric Modeling Fundamentals</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives — at least 3 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH B16</td>
<td>Digital Tools for Graphics Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B20B</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Industrial Technology, Industrial Drawing Option Associate in Science

Students who complete the Industrial Technology degree with the Industrial Drawing option will acquire information, skills, and training in a variety of fields that will enable them to apply their knowledge in an array of situations, including engineering and manufacturing settings. Students will acquire the practical knowledge and skills to successfully enter industry employment or to advance within their organization. Career opportunities include architecture, engineering, industrial technology draftsman, CAD Technician, engineering technician, CAD Manager, and detailer.

To Achieve the Associate in Science
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Industrial Technology, Industrial Drawing Option Associate in Science degree.

To Transfer Coursework
A minimum of 31 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university degree program in industrial technology.

Total Units: 31

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDR B20A</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B20B</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B40</td>
<td>Parametric Modeling Fundamentals</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B50</td>
<td>Process Piping</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B70</td>
<td>Intermediate Algebra</td>
<td>5.0</td>
</tr>
<tr>
<td>INDR B51</td>
<td>Electrical Design</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B52</td>
<td>Geographic Information Systems (GIS)</td>
<td>3.0</td>
</tr>
<tr>
<td>MFTG B1AB</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR B24</td>
<td>Engineering Graphics and Descriptive Geometry</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B1A</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Suggested Program for Industrial Technology Industrial Drawing Option Associate in Science

First Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B70</td>
<td>Intermediate Algebra</td>
<td>5.0</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B20A</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B70</td>
<td>Intermediate Algebra</td>
<td>5.0</td>
</tr>
<tr>
<td>INDR B50</td>
<td>Process Piping</td>
<td>3.0</td>
</tr>
<tr>
<td>-or-</td>
<td>INDR B52 Geographic Information Systems (GIS)</td>
<td>3.0</td>
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</table>

Third Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B50</td>
<td>Process Piping</td>
<td>3.0</td>
</tr>
<tr>
<td>-or-</td>
<td>INDR B52 Geographic Information Systems (GIS)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B51</td>
<td>Electrical Design</td>
<td>3.0</td>
</tr>
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</table>

Fourth Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B40</td>
<td>Parametric Modeling Fundamentals</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Industrial Technology

Industrial Technology (General) Associate in Science

Students who complete the Industrial Technology degree with the Industrial Drawing option will acquire information, skills, and training in a variety of fields that will enable them to apply their knowledge in an array of situations, including engineering and manufacturing settings. Students will acquire the practical knowledge and skills to successfully enter industry employment or to advance within their organization. Career opportunities include architecture, engineering, Industrial Technology draftsman, CAD Technician, Engineering Technician, CAD Manager, and detailer.
To Achieve the Associate in Science

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Industrial Technology (General) Associate in Science degree.

To Transfer Coursework

A minimum of 22 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university degree program in industrial technology.

Total Units: 22

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFGT B1AB</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
<tr>
<td>ELET B1</td>
<td>Basic Electronics (DC and AC)</td>
<td>4.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDR B20A</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B1A</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Electives - at least 3 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B20B</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B2</td>
<td>CNC Lathe Programming &amp; Operation</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>AUTO B1AB</td>
<td>Introduction to Automotive Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>CNST B1</td>
<td>Introduction to Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>COMP B5</td>
<td>Introduction to Microsoft Office</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Journalism

Associate in Arts in Journalism for Transfer

The Associate in Arts in Journalism degree is intended for those transfer-directed students who plan to complete an AA in Journalism because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate of Arts in Journalism degree, students must complete 60 required semester units of CSU-transferable coursework which includes CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate of Arts in Journalism for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system.

Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   • A minimum of 18 semester units in a major area of emphasis, as determined by the district.

2. The obtainment of a minimum grade point average of 2.0.

3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes

Upon successful completion, the student will be able to:

• demonstrate the ability - through learned skills, critical thinking and organization - to preform the function of reporter, photographer or editor on a print and online publication.
• demonstrate how to conduct the process of reporting.
• demonstrate how to conduct the process of photojournalism and multimedia.
• discuss various forms of media and how they relate to society through historical and current knowledge of mass communication.
• demonstrate an understanding of journalism ethics and standards.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL B1*</td>
<td>Media and Society</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B2</td>
<td>Beginning Reporting</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B27A</td>
<td>Newspaper Production for Reporters</td>
<td>3.0</td>
</tr>
</tbody>
</table>

List A (any one of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL B15</td>
<td>Press Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B16</td>
<td>Multimedia Reporting</td>
<td>3.0</td>
</tr>
<tr>
<td>JRNL B26</td>
<td>Newspaper Production/Editors</td>
<td>4.0</td>
</tr>
</tbody>
</table>

List A (any two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B17</td>
<td>Black and White Photography</td>
<td>3.0</td>
</tr>
<tr>
<td>COMM B5*</td>
<td>Rhetoric and Argumentation</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B1*</td>
<td>Principles of Economics-Micro</td>
<td>3.0</td>
</tr>
<tr>
<td>ECON B2*</td>
<td>Principles of Economics-Macro</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B22</td>
<td>Introduction to Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>POLS B2*</td>
<td>Comparative Government</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 18-20

Kinesiology

Associate in Arts in Kinesiology for Transfer

The Associate in Arts in Kinesiology for Transfer (AA-T) is intended for all students who plan to complete an Associate in Arts in Kinesiology. This degree is especially valuable for those students planning on completing a bachelor’s degree in Kinesiology at a CSU campus because the Associate in Arts in Kinesiology for Transfer.
guarantees admission to the CSU system (but not to a particular campus or major). In order to earn Associate in Arts in Kinesiology for Transfer, the students must complete 60 required semester units of CSU-transferable coursework which includes the CSU General Education Breadth or IGETC General Education requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Kinesiology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:
1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   • A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The attainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes
Upon successful completion, the student will be able to:
• analyze the history, research, and current information in Kinesiology and their current applications.
• demonstrate and explain the basic anatomy and physiological principles at work in both sport performance and general fitness activities.
• demonstrate an understanding of the value and significance of physical activity for human development, human interactions and quality of life.
• demonstrate and describe the primary aspects of injury and trauma response as a first responder.
• recognize the principles of physical fitness development and maintenance as well as the body’s responses to physical activity.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL B32</td>
<td>Human Anatomy and Physiology I</td>
<td>4.0</td>
</tr>
<tr>
<td>BIOL B33</td>
<td>Human Anatomy and Physiology II</td>
<td>4.0</td>
</tr>
<tr>
<td>PHED B42</td>
<td>Introduction to Kinesiology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Movement Based Courses (any three of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED B2SB</td>
<td>Aquatics: Beginning Swimming</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B3ADP</td>
<td>Adaptive Physical Education</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6A</td>
<td>Coeducational Team and Individual Activity: Archery</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6BB</td>
<td>Coed Team and Individual Activities:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basketball</td>
<td>1.0</td>
</tr>
<tr>
<td>PHED B6BLB</td>
<td>Coeducational and Individual Activity:</td>
<td></td>
</tr>
</tbody>
</table>

List A (any two of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B22</td>
<td>Elementary Probability and Statistics</td>
<td>4.0</td>
</tr>
<tr>
<td>PSYC B5</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>CHEM B11</td>
<td>Introduction to General, Organic, and Biochemistry</td>
<td>5.0</td>
</tr>
<tr>
<td>PHYS B2A</td>
<td>General Physics-Mechanics and Heat</td>
<td>4.0</td>
</tr>
<tr>
<td>PHED B36</td>
<td>First Aid and CPR</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 21-24

Liberal Arts

Please refer to the general education student learning outcomes in the Graduation and General Education section of catalog.

Liberal Arts Associate in Arts

The Liberal Arts major at Bakersfield College is designed to provide students with the opportunity to earn an associate in arts degree in a broad area of study. The major is interdisciplinary and allows students to develop a variety of skills transferable to numerous occupations and fields of study. The major is intended to provide general knowledge and to develop the intellectual capacities, such as reasoning and judgment, as opposed to professional or vocational skills. This major is suitable for transfer students preparing for upper division study in a variety of fields in the liberal arts and for those students undecided as to major or further study. Students may satisfy requirements for the Liberal Arts major by completing one of the two options listed below. With any option selected, students must also complete all graduation requirements for Bakersfield College including a total of 60 degree applicable units with an overall grade point average of 2.0.

To Achieve the Associate in Arts

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Liberal Arts Associate in Arts degree.

To Transfer Coursework

A minimum of 18 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Select one of the following options:
1. Option One.
• Complete the Intersegmental General Education Transfer Curriculum (IGETC) with a C average.
• Complete at least 18 units from recommended lower division major preparation for the major at the approved university of your choice with a C grade in each course.
• UC transferable elective units, if needed, to total 60 units.

2. Option Two.
• Complete CSU General Education Breadth with a C average.
• Complete at least 18 units from recommended lower division major preparation for the major at the approved university of your choice with a C grade in each course.
• CSU transferable elective units, if needed, to total 60 units.

Manufacturing/Machine Technology

Basic Machine Tool Operations-Lathe, Mill Job Skills Certificate
This certificate covers the principles of machine tool technology to include the use of precision measuring, drilling machines, saws, lathes and milling machines. Career opportunities include machinist.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Basic Machine Tool Operations - Lathe, Mill Job Skills Certificate.

To Transfer Coursework
A minimum of 3 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university program or for certification in the department programs.

Total Units: 3

Required Courses
Course Number Title Units
MFGT B1AB Machine Tool Processes 3.0

Computer Numerical Control Programming Job Skills Certificate
This certificate covers the principles of set-up, operation and programming of computer numerical control (CNC) lathes and milling machines. Career opportunities include CNC Machinist CNC Programmer and CNC Operator.

To Achieve the Job Skills Certificate
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Computer Numerical Control Programming Job Skills Certificate.

To Transfer Coursework
A minimum of 6 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university program or for certification in the department programs.

Total Units: 6

Required Courses
Course Number Title Units
MFGT B2 CNC Lathe Programming & Operation 3.0
MFGT B3 CNC Mill Programming 3.0

Manufacturing Technology Certificate of Achievement
This program teaches students the spectrum of tools utilized in the manufacturing industry: manual machining, computer-controlled machining (CNC), welding, computer aided design, and basic math.

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Manufacturing Technology Certificate of Achievement.

To Transfer Coursework
A minimum of 31 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:
• demonstrate proficiency in technical skills and safety principles required for employment in the manufacturing industry.
• demonstrate problem solving skills used in manufacturing design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university program or for certification in the manufacturing program.

Total Units: 31-33

Required Courses
Course Number Title Units
MFGT B1AB Machine Tool Processes 3.0
MFGT B2 CNC Lathe Programming & Operation 3.0
MFGT B3 CNC Mill Programming 3.0
INDR B12 Introduction to Drafting and CAD 2.0
TECM B52 Industrial Math and Quality Control 3.0
- or -
MATH B60 Beginning Algebra 5.0
- or equivalent -
INDT B10 Occupational Readiness 3.0
- or equivalent -
WELD B1A Introduction to Oxygen Acetylene Welding and Cutting 2.0
WELD B1B Introduction to the Welding Processes 2.0
WELD B54A Blueprint Reading for Welders and Machinists 3.0

Electives — at least 7 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B20A</td>
<td>Computer Aided Drafting and Design</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B40</td>
<td>Parametric Modeling Fundamentals</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B273</td>
<td>Special Problems in Machine Tool Metal Working</td>
<td>2-3.0</td>
</tr>
<tr>
<td>WELD B74A</td>
<td>Introduction to GMAW (Gas Metal Arc Welding) and FCAW</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74B</td>
<td>Introduction to Gas Tungsten Arc Welding</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Industrial Technology, Manufacturing Technology Option

**Associate in Science**

This program teaches students the spectrum of tools utilized in the manufacturing industry: manual machining, computer-controlled machining (CNC), welding, computer aided design, and mathematics. General education courses may be selected to prepare for career advancement or to help meet transfer requirements for the California State University system.

Career Opportunities include machinist, CNC Operator; CNC Programmer, and drafter/designer.

**To Achieve the Associate in Science**

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Industrial Technology, Manufacturing Technology Option Associate in Science degree.

**To Transfer Coursework**

A minimum of 24 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for employment in the manufacturing industry.
- demonstrate problem solving skills used in manufacturing design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university program or for certification in the manufacturing program.

**Total Units: 24**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFGT B1AB</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B2</td>
<td>CNC Lathe Programming &amp; Operation</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B3</td>
<td>CNC Mill Programming</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>TECM B52</td>
<td>Industrial Math and Quality Control</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>-or-equivalent-</td>
<td></td>
</tr>
<tr>
<td>WELD B1A</td>
<td>Introduction to Oxygen Acetylene Welding</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>and Cutting</td>
<td></td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B54A</td>
<td>Blueprint Reading for Welders and Machinists</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Electives — at least 3 units**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDR B20A</td>
<td>Computer Aided Drafting and Design</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B40</td>
<td>Parametric Modeling Fundamentals</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B273</td>
<td>Special Problems in Tool Metal Working</td>
<td>2-3.0</td>
</tr>
<tr>
<td>WELD B53AB</td>
<td>Shielded Metal Arc Welding</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B74A</td>
<td>Introduction to GMAW (Gas Metal Arc Welding) and FCAW</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74B</td>
<td>Introduction to Gas Tungsten Arc Welding</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Mathematics

**Associate of Science in Mathematics for Transfer**

Associate of Science in Mathematics for Transfer is intended for all students who plan to complete an AS in Mathematics. This degree is especially valuable for those students planning on completing a bachelor's degree in Mathematics at a CSU campus because the Associate of Science in Mathematics for Transfer guarantees admission to the CSU system (but not to a particular campus or major).

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The attainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

**Program Learning Outcomes**

Upon successful completion, the student will be able to:

- demonstrate an understanding of functions from multiple perspectives.
- use numerical, graphical, symbolic, and verbal representations to solve problems and communicate with others.
- use technology as a tool for exploring mathematical concepts.
- demonstrate an ability to work with mathematical abstractions, analyze mathematical relationships, make plausible conjectures, and develop proofs.
- synthesize mathematical knowledge.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6A</td>
<td>Analytic Geometry/Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6B</td>
<td>Analytic Geometry/Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>MATH B6C</td>
<td>Calculus III</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**List A**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH B6D</td>
<td>Ordinary Differential Equations</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH B6E</td>
<td>Elementary Linear Algebra</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 18
Music

**Associate in Arts in Music for Transfer**

Students who plan to major or minor in music should commit themselves to the highest possible level of proficiency in theory, piano, literature, group performance, and applied (individual) instruction in their performance area. Students should take the required courses in music and complete courses in general education for the transfer college of their choice. Elective courses will both enrich the student’s background and balance weak areas of knowledge for later academic growth.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Program Learning Outcomes**

Upon successful completion, the student will be able to:

- demonstrate the ability to recognize, describe and/or effectively produce various components of music including elements of pitch and rhythm.
- demonstrate an understanding and appreciation of the ways in which arts reflect historical, intellectual, and cultural contexts, as well as aesthetic tastes.
- demonstrate through successful group or individual performance acquired musical skills and knowledge appropriate to lower-division major preparation.

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC B2</td>
<td>Basic Elements of Music</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B4A</td>
<td>Elementary Theory</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B4B</td>
<td>Elementary Theory</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B4C</td>
<td>Intermediate Theory-Contemporary Materials</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSC B7</td>
<td>Applied Music (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B15A</td>
<td>Ear Training and Sight Singing</td>
<td>1.0</td>
</tr>
<tr>
<td>MUSC B15B</td>
<td>Ear Training and Sight Singing</td>
<td>1.0</td>
</tr>
<tr>
<td>MUSC B15C</td>
<td>Intermediate Ear Training and Sight Singing</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**Performance Ensemble**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC B10A</td>
<td>Concert Band (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B12A</td>
<td>College Orchestra (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B13A</td>
<td>Jazz Ensemble (4 enrollments of 1 unit each)</td>
<td>4.0</td>
</tr>
<tr>
<td>MUSC B14A</td>
<td>College Choir (4 enrollments of 1.5 units each)</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Total required units: 23-25

Nursing

**Associate in Science**

**Mission**

The mission of the Bakersfield College Associate Degree Nursing Program is to prepare entry-level registered nurses as providers and managers of care across the health/illness continuum and as members within the profession. Graduate nurses will collaborate with members of the health care team, be effective communicators, be politically aware, and demonstrate a commitment to life long learning.

The study of nursing is the application of knowledge from the arts and sciences. The purpose of the Bakersfield College Associate Degree Program is to provide the foundation for students to become competent registered nurses. The ADN Program respects the individuality of students and recognizes that each student has different educational, experiential, cultural, spiritual, economic and social backgrounds and a unique support system. The aim of the Program is to provide a positive, innovative learning model that fosters the development of critical thinking and problem solving skills so that the graduate nurse is equipped to deliver care to a culturally diverse population in a variety of healthcare settings.

**To Achieve the Associate in Science**

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Nursing Associate in Arts degree.

**To Transfer Coursework**

A minimum of 41 semester units in the major with a grade of ‘C’ or better.

**Program Learning Outcomes**

Upon successful completion, the student will:

1. demonstrate the standards of competent performance as defined by the California Board of Registered Nursing. The successful graduate will be considered competent when he/she consistently demonstrates the ability to transfer knowledge scientific knowledge from social, biological, and physical sciences in applying the nursing process as follows:
   - formulates a nursing diagnosis through observation of the client’s physical condition and behavior, and through interpretation of information obtained from the client and others, including the health team.
   - formulates a care plan, in collaboration with the client, which ensures that direct and indirect nursing care services provide for the client’s safety, comfort, hygiene, and protection, and for disease prevention and restorative measures.
   - performs skills essential to the kind of nursing action to be taken, explains the health treatment to the client and family and teaches the client and family how to care for the client’s health needs.
   - delegates tasks to subordinates based on the legal scopes of practice of the subordinates and on the preparation and capability needed in the tasks to be delegated, and effectively supervises nursing care being given by subordinates.
   - evaluates the effectiveness of the care plan through observation of the client’s physical condition and behavior, signs and symptoms of illness, and reactions to treatment and through communication with the client itself.
Prerequisite Requirements
All prerequisites must be completed with a ‘C’ grade or higher.

- ENGL B1A (Expository Composition), three units at Bakersfield College or equivalent course at another accredited college.
- MATH BD/B70 (Intermediate Algebra) or higher; three units at Bakersfield College or an equivalent course at another accredited college.
- CHEM B11 (Introduction to General, Organic and Biochemistry) or CHEM B2A (Introduction to General Chemistry) or CHEM B1A (General Chemistry) at Bakersfield College or an equivalent Chemistry course of three to five units from another accredited college.
- BIOL B16 (General Microbiology) five units at Bakersfield College or equivalent course at another accredited college.
- BIOL B32 (Anatomy & Physiology I) four units at Bakersfield College or equivalent course at another accredited college.
- BIOL B33 (Anatomy & Physiology II) four units at Bakersfield College or equivalent course at another accredited college.
- (Anatomy and Physiology requirement can also be met with Human Anatomy (minimum of four units) AND Human Physiology (minimum of four units) of equivalent courses from another accredited college)

General education courses are required to graduate from Bakersfield College with an Associate Degree in Nursing. It is suggested that most of these courses be completed prior to beginning the Nursing Program.

- Social Science (three units) – any course listed in Area D3 of the Bakersfield College General Education Pattern
- Arts, Literature, Philosophy, and Foreign Language (three units) – any course as listed in Area C of the Bakersfield College General Education Pattern.
- COMM B1*
- ANTHB2 or SOC B1*
- PSYC B1A*
- Physical Education (one unit) required from PHED courses numbered from B2-B33.
- HLED-Health Education (three units) is waived for RN students
- NURS B100 - Educational Planning (recommended) or -any course listed under Bakersfield College General requirements for graduation. (A student development course is recommended to be taken during the first semester of courses at Bakersfield College to assure priority registration.)

*Board of Registered Nursing required course; the courses must be completed with a ‘C’ grade or better. Note: All graduation requirements of the college must be met to earn an Associate of Science in Nursing and to take the NCLEX RN – Licensure Exam.

First Semester
Course Number | Title                      | Units
---------------|----------------------------|-------
NURS B20       | Fundamentals of Nursing    | 4.0   
NURS B21       | Medical Surgical Nursing 1 | 5.0   
NURS B22       | Pharmacology               | 3.0   

Second Semester
Course Number | Title                      | Units
---------------|----------------------------|-------
NURS B23       | Medical Surgical Nursing 2 | 4.5   
NURS B24       | Obstetrics - Maternity Nursing | 3.0  
NURS B25       | Mental Health - Psychiatric Nursing | 3.5  

Third Semester
Course Number | Title                      | Units
---------------|----------------------------|-------
NURS B26       | Medical Surgical Nursing 3 | 5.5   
NURS B27       | Pediatric Nursing          | 3.5   

Fourth Semester
Course Number | Title                      | Units
---------------|----------------------------|-------
NURS B28       | Medical Surgical Nursing 4 | 7.0   
NURS B29       | Gerontology - Community Nursing | 2.0  

Conditional Enrollment
As a condition of enrollment in any Nursing/Allied Health Program, students are required to submit to and pass a designated drug and alcohol screening, a background screening, and physical examination clearance (at the student’s expense). Please note the following:

- A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
- If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program. In the event that a student cannot obtain a background clearance, the space will be forfeited. Students
LVN to Associate Degree Nursing Program

Associate in Science

To Achieve the Associate in Science
Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Nursing Associate in Science degree.

To Transfer Coursework
A minimum of 20 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes
Upon successful completion, the student will:

1. demonstrate the standards of competent performance as defined by the California Board of Registered Nursing. The successful graduate will be considered competent when he/she consistently demonstrates the ability to transfer knowledge scientific knowledge from social, biological, and physical sciences in applying the nursing process as follows:
   • formulates a nursing diagnosis through observation of the client's physical condition and behavior, and through interpretation of information obtained from the client and others, including the health team.
   • formulates a care plan, in collaboration with the client, which ensures that direct and indirect nursing care services provide for the client's safety, comfort, hygiene, and protection, and for disease prevention and restorative measures.
   • performs skills essential to the kind of nursing action to be taken, explains the health treatment to the client and family and teaches the client and family how to care for the client's health needs.
   • delegates tasks to subordinates based on the legal scopes of practice of the subordinates and on the preparation and capability needed in the tasks to be delegated, and effectively supervises nursing care being given by subordinates.
   • evaluates the effectiveness of the care plan through observation of the client's physical condition and behavior, signs and symptoms of illness, and reactions to treatment and through communication with the client and health team members, and modifies the plan as needed.
   • acts as the client's advocate, as circumstances require, by initiating action to improve health care or to change decisions or activities which are against the interests or wishes of the client, and by giving the client the opportunity to make informed decisions about health care before it is provided.

2. perform Nursing practice, which includes those functions, including basic health care, that help people cope with difficulties in daily living that are associated with their actual or potential health or illness problems or the treatment thereof, including all of the following:
   • direct and indirect patient care services that ensure the safety, comfort, personal hygiene, and protection of patients; and the performance of disease prevention and restorative measures. (Business and Professions Code, Division 2, Chapter 6, Section 2725)
   • direct and indirect patient care services, including, but not limited to, the administration of medications and therapeutic agents, necessary to implement a treatment, disease prevention, or rehabilitative regimen ordered by and within the scope of licensure of a physician, dentist, podiatrist, or clinical psychologist, as defined by Section 1316.5 of the Health and Safety Code.
   • the performance of skin tests, immunization techniques, and the withdrawal of human blood from veins and arteries.
   • observation of signs and symptoms of illness, reactions to treatment, general behavior; or general physical condition, and:
     • determination of whether the signs, symptoms, reactions, behavior, or general appearance exhibit abnormal characteristics.
     • implementation, based on observed abnormalities, of appropriate reporting, or referral, or standardized procedures, or changes in treatment regimen in accordance with standardized procedures, or the initiation of emergency procedures.

The study of nursing is the application of knowledge from the arts and sciences. The purpose of the Bakersfield College LVN to Associate Degree Program is to provide the foundation for students to become competent registered nurses. The LVN-ADN Program respects the individuality of students and recognizes that each student has different educational, experiential, cultural, spiritual, economic and social backgrounds and a unique support System. The aim of the program is to provide a positive, innovative learning model that fosters the development of critical thinking and problem solving skills so that the graduate nurse is equipped to deliver care to a culturally diverse population in a variety of healthcare settings.

Mission
The mission of the Bakersfield College LVN-Associate Degree Nursing Program is to prepare entry-level registered nurses as providers and managers of care across the health/illness continuum and as members within the profession. Graduate nurses will collaborate with members of the health care team, be effective communicators, be politically aware, and demonstrate a commitment to life long learning.

Prerequisite Requirements
- All prerequisites must be completed with a C grade or higher.
- ENGL B1A (Expository Composition), 3 units at Bakersfield College or equivalent course at another accredited college.
- MATH BD/B70 (Intermediate Algebra) or higher, 3 units at Bakersfield College or an equivalent course at another accredited college.
- CHEM B11 (Introduction to General, Organic and Biochemistry) or CHEM B1A (General Chemistry) at...
General Education

General education courses are required to graduate from Bakersfield College with an Associate Degree in Nursing. It is suggested that most of these courses be completed prior to beginning the Nursing Program.

- Social Science (3 units) – any course listed in Area D3 of the Bakersfield College General Education Pattern
- Arts, Literature, Philosophy, and Foreign Language (3 units) – any course listed in Area C of the Bakersfield College General Education Pattern.
- COMM B1* or COMM B2*
- ANTHB2* or SOC B1*
- PSYC B1A*
- Physical Education (1 unit) required from PHED courses numbered from B2-B33 or B49.
- HLED-Health Education (3 units) is waived for RN students
- NURS B100 - Educational Planning - recommended or any course listed under Bakersfield College General requirements for graduation. (A student development course is recommended to be taken during the first semester of courses at Bakersfield College to assure priority registration.)
- *Board of Registered Nursing required course. Courses must be completed with a C grade or better

Note: All graduation requirements of the college must be met to earn an Associate of Science (A.S.) in Nursing and to take the NCLEX RN – Licensure Exam.

Application Procedure

The Allied Health office must receive all application forms and transcripts during the designated filing periods. For detailed information on the application period and procedures, please refer to the Allied Health web site at www.bakersfieldcollege.edu/allied-health or come to the Bakersfield College Allied Health Office in MS 178.

Conditional Enrollment

As a condition of enrollment in any Nursing/Allied Health Program, students are required to submit to and pass a designated drug and alcohol screening, a background screening, and physical examination clearance (at the student’s expense). Please note the following:

- A history of felony conviction(s) or any bar, exclusion or other eligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
- If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program. In the event that a student cannot obtain a background clearance, the space will be forfeited. Students who are found to be ineligible for clinical placement by the clinical agency after admission to the program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical rotations.
- A physical examination completed by a physician of the student’s choice is required after acceptance to the Program to demonstrate that a student meets the technical standards necessary to meet the Program objectives. Appropriate immunizations and/or vaccinations and mask fit testing are also required and are performed at the student’s expense.
- More information can be found on the Allied Health web site at www.bakersfieldcollege.edu/allied-health or in the Bakersfield College Allied Health Office, MS 178.

Program Costs

An estimated cost for the program is approximately $3,200.

Transfer and Challenge by Exam Policy

For transfer and challenge by exam policies, contact the Nursing Department for further information.

Program Approval/Accreditation

The California Board of Registered Nursing approves the Bakersfield College Associate Degree Nursing Program. The Western Association of Schools and Colleges accredits Bakersfield College.

Licensure/Certification Eligibility

Record of any misdemeanor and/or felony is subject to review by the Board of Registered Nursing before a RN license may be granted. Anyone who wishes clarification may contact the Board of Registered Nursing, PO Box 944210, Sacramento, CA 94244. Applicants for RN Licensure must submit a valid Social Security number at the time of application.

Career Opportunities in Registered Nursing

Employment in a variety of healthcare facilities and settings.

LVN-ADN Program Curriculum

The following courses are taken after the student enters the Program.

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS B25</td>
<td>Mental Health - Psychiatric Nursing</td>
<td>3.5</td>
<td></td>
</tr>
<tr>
<td>NURS B26</td>
<td>Medical Surgical Nursing 3</td>
<td>5.5</td>
<td></td>
</tr>
<tr>
<td>NURS B70</td>
<td>Role Transition: Bridging Nursing Theory to Practice</td>
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<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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<tr>
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<td>Medical Surgical Nursing 4</td>
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</tr>
<tr>
<td>NURS B29</td>
<td>Gerontology - Community Nursing</td>
<td>2.0</td>
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</tbody>
</table>

Program Accreditation

The California Board of Registered Nursing accredits the Bakersfield College Associate Degree Nursing Program. The Western Association of Schools and Colleges accredits Bakersfield College.
LVN to Non-Degree Nurse (30 unit option)

Total Units: 30

Students seeking information regarding the 30-unit option preparation for the registered nurse licensing examination may receive further information from the Dean of the Associate Degree Nursing Program. The 30 unit option is specific to California only. As a 30 unit option you are not a graduate of Bakersfield College’s Nursing Program.

Transfer and Challenge by Exam Policy
For transfer and challenge by exam policies, contact the Nursing Department for further information.

Career Opportunities in Registered Nursing
Employment in a variety of healthcare facilities and settings.

Prerequisite Requirements
All prerequisite courses must be completed prior to submission of program application. Courses in-progress at the time of application will not be considered.

1. The following courses must be completed with a grade of ‘C’ or higher:
   - Introductory Physiology (with lab) must meet Board of Registered Nursing requirements in Physiology.
   - General Microbiology (with lab) must meet Board of Registered Nursing requirements in Microbiology.

2. Additional Prerequisites:
   - Graduation from high school or an equivalent education.
   - Possession of a current California Vocational Nurse License.
   - Employment as a LVN for at least 1 year.
   - IV Certification.

30 Unit Option Curriculum*

Third Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS B25</td>
<td>Mental Health-Psychiatric Nursing</td>
<td>3.5</td>
</tr>
<tr>
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<td>Medical Surgical Nursing 3</td>
<td>5.5</td>
</tr>
<tr>
<td>NURS B70</td>
<td>Role Transition: Bridging Nursing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Theory to Practice</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Fourth Semester

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS B28</td>
<td>Medical Surgical Nursing 4</td>
<td>7.0</td>
</tr>
<tr>
<td>NURS B29</td>
<td>Gerontology - Community Nursing</td>
<td>2.0</td>
</tr>
</tbody>
</table>

*The prerequisites of microbiology and physiology equal 10 units.

Vocational Nursing Program Certificate of Achievement

To Achieve the Certificate of Achievement
Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Vocational Nursing Certificate of Achievement.

Program Learning Outcomes
Upon successful completion, the student will:
1. demonstrate an understanding of how to use and practice basic assessment (data collection), participate in planning, execute interventions in accordance with the care plan or treatment plan, and contribute to evaluation of individualized intervention related to the care plan or treatment plan.

2. perform direct patient/client care by which the student
   - performs basic nursing services.
   - administers medications.
   - applies communication skills for the purpose of patient/client care and education.
   - contributes to the development and implementation of a teaching plan related to self-care for the patient/client.

Vocational Nursing Program Mission
The mission of the Bakersfield College Vocational Nursing Program is to prepare entry-level vocational nurses as providers of care across the health/illness continuum and as members within the profession.

Prerequisite Requirements
All prerequisites must be completed prior to the start of the Program with a C grade or higher. Priority is provided to students with all prerequisite courses completed at the time of submitting an enrollment form.

- Proof of graduation from high school or an equivalent education.
- BIOL B18 (Essentials of Human Anatomy and Physiology) at Bakersfield College or an equivalent course at another accredited college.
- PSYC B1A (General Psychology) at Bakersfield College or an equivalent course at another accredited college.
- MATH B60 (Elementary Algebra) at Bakersfield College or an equivalent course at another accredited college.
- Eligibility for ENGL B1A (Expository Composition) as demonstrated by qualifying scores on the college assessment test or completion of ENGL B53 or ENGL B50 at Bakersfield College or equivalent course from another accredited college with a C or higher.
- Nurse Assistant certification – required (Effective Fall 2016).
- MEDS B60 (Medical Terminology) – highly recommended.

Note: Students desiring to continue their education and become a registered nurse need to refer to the prerequisites required for the Associate Degree Nursing Program.

Application Procedure
The Allied Health office must receive all application forms and transcripts during the designated filing periods. For detailed information on the application period and procedures, please refer to the Allied Health website at www.bakersfieldcollege.edu/allied-health or in the Bakersfield College Allied Health Office in MS 178.

Conditional Enrollment
As a condition of enrollment in any Nursing/Allied Health Program, students are required to submit to and pass a designated drug and alcohol screening, a background screening, and physical examination clearance (at the student’s expense). Please note the following:

- A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
- If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program. In the event that a student cannot obtain a background clearance, the space will be forfeited. Students who are found to be ineligible for clinical placement by the clinical agency after admission to the program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical rotations.
More information can be found on the Allied Health web site at: www.bakersfieldcollege.edu/allied-health or in the Bakersfield College Allied Health Office, MS 178.

Program Costs
An estimated cost for the first semester of the program is approximately $3,200.

Transfer and Challenge by Exam Policy
For transfer and challenge by exam policies, contact the Nursing Department for further information.

Program Approval/Accreditation
The California Board of Vocational Nursing and Psychiatric Technicians accredits the Bakersfield College Vocational Nursing Program. The Western Association of Schools and Colleges accredits Bakersfield College.

Licensure/Certification Eligibility
Conviction of any offenses other than minor traffic violations must be reported to the Board of Vocational Nursing and Psychiatric Technicians at the time of application for licensure. For clarification contact the VN Program Director or the Board of Vocational Nursing and Psychiatric Technicians, 2535 Capitol Oaks Drive, Suite 205, Sacramento, California, 95833, (916) 263-7800. Applicants for VN Licensure must submit a valid Social Security number at the time of application.

Certificate of Achievement
Upon completion of the program of study for Vocational Nursing, the student is eligible for a Certificate of Achievement.

Career Opportunities in Vocational Nursing
Employment as a Licensed Vocational Nurse in a variety of health care settings.

Vocational Nurse Program Curriculum
The following courses are taken after the student enters the Vocational Nursing Program.

First Semester
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VNRS B69</td>
<td>Foundations for Vocational Nursing Practice</td>
<td>3.0</td>
</tr>
<tr>
<td>VNRS B68</td>
<td>Basic Medical Surgical Nursing</td>
<td>3.0</td>
</tr>
<tr>
<td>VNRS B69L</td>
<td>Foundations for Vocational Nursing Practice-Lab</td>
<td>6.0</td>
</tr>
<tr>
<td>VNRS B67</td>
<td>Principles of Pharmacology</td>
<td>2.0</td>
</tr>
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</table>

Second Semester
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VNRS B79</td>
<td>Intermediate Medical Surgical Nursing</td>
<td>9.0</td>
</tr>
<tr>
<td>VNRS B79L</td>
<td>Intermediate Medical Surgical Nursing-Lab</td>
<td>6.0</td>
</tr>
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</table>

Third Semester
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VNRS B89</td>
<td>Advanced Medical Surgical Nursing</td>
<td>3.5</td>
</tr>
<tr>
<td>VNRS B89L</td>
<td>Advanced Medical Surgical Nursing-Lab</td>
<td>3.0</td>
</tr>
<tr>
<td>VNRS B88</td>
<td>Maternal/Child Nursing</td>
<td>3.0</td>
</tr>
<tr>
<td>VNRS B88L</td>
<td>Maternal/Child Nursing-Lab</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Nurse Assistant Job Skills Certificate
Program Learning Outcomes
Upon successful completion, the student will:
- demonstrate an understanding of knowledge and skills necessary to provide basic patient care including but not limited to the following skills:
  - performing basic hygiene
  - taking and documenting vital information (vital signs, height, weight)
  - documenting patient care
  - assisting with elimination needs
  - collecting specimens
- demonstrate an understanding of effective communication and interpersonal skills
- promote the independence of patients
- demonstrate an understanding of protection of patient privacy and patient rights
- demonstrate an understanding of safety and emergency procedures including the Heimlich maneuver

The Nurse Assistant course prepares the student to provide services to those who need health care. The student will learn the role of the caregiver, the health care environment, health care safety, adult needs in health and illness, and basic care giving skills.

Nurse Assistant Program Mission
The mission of the Bakersfield College Nurse Assistant Program is to provide vocational education that will prepare the student to provide basic services to those who need healthcare. The program is committed to improving and advancing the health and welfare of our community by preparing competent, safe, health care professionals.

Enrollment
Enroll in MEDS B69 through the Bakersfield College. Consult the current class schedule for course offerings. For more information go to www.bakersfieldcollege.edu/allied-health or come by the Office of Allied Health in the Math Science building, room 178.

Conditional Enrollment
As a condition of enrollment in any Nursing/Allied Health Program, students are required to submit to and pass a designated drug and alcohol screening, a background screening, a background screening, and physical examination clearance. Please note the following:
- A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
- If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program. In the event that a student cannot obtain a background clearance, the space will be forfeited. Students who are found to be ineligible for clinical placement by the clinical agency after admission to the program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical rotations.
- A physical examination completed by a physician of the student’s choice is required after acceptance to the Program to demonstrate that a student meets the technical standards necessary to meet the Program objectives. Appropriate
immunizations and/or vaccinations and mask fit testing are also required and are performed at the student’s expense.

More information can be found on the Allied Health web site at www.bakersfieldcollege.edu/allied-health or in the Bakersfield College Allied Health Office, MS 178.

**Program Costs**

An estimated cost for the program (fees, textbooks, uniforms, and examination) is approximately $1,000. Financial aid may be available.

**Program Approval Accreditation**

The California Department of Public Health approves the Bakersfield College Nurse Assistant Program. The Western Association of Schools and Colleges accredits Bakersfield College.

**Licensure/Certification Eligibility**

Students with a misdemeanor and/or felony arrest conviction, either current or prior, may not receive certification or licensure from the State or County. Also, a Social Security number and fingerprinting are required by State certification/licensure agencies.

Upon successful completion of the Nurse Assistant course, the student is eligible to take the competency exam for a Certified Nurse Assistant administered by the American Red Cross. This provides proof to the California Department of Public Health that the student has met the requirements for licensure. Students must complete the required courses with at least a ‘C’ grade.

**Total Units: 6**

Employment as a Certified Nurse Assistant in a variety of health care settings.

**Nurse Assistant Curriculum**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDS B69</td>
<td>Nurse Assistant</td>
<td>6.0</td>
</tr>
</tbody>
</table>

**Paramedic**

**Associate in Science Degree**

The mission of the Paramedic Program is to provide a strong educational foundation so the future paramedics may improve the health and welfare of Kern County by providing the highest quality prehospital emergency medical care.

The Paramedic Program is designed to provide students with the education and experience to perform as competent, entry level Paramedics. The Paramedic Program received its initial accreditation by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). The program is also approved by Kern County Emergency Medical Services as meeting the EMS Education Standards as specified in Title 22 of the California Code of Regulations and the National Highway Transportation and Safety Administration (NHTSA) Paramedic Curriculum.

The program consists of a minimum of 1090 hours of instruction which is divided into three distinct sessions: didactic/classroom instruction (minimum of 450 hours) clinical lab (minimum of 160 hours) and field internship (minimum of 480 hours). Upon completion of the program, graduates will earn a Certificate of Achievement and are eligible to take the National Registry Emergency Medical Technician-Paramedic examination (NREMT-P) which is required for paramedic licensure in the state of California. Paramedics are typically employed by ambulance companies, private industry, and fire departments to provide emergency care in case of illness or injury.

**Limitation on Enrollment**

As a condition of enrollment in any Allied Health Program, students are required to submit to and pass a designated drug and alcohol screening, a background screening, and physical examination clearance (at the student’s expense). Please note the following:

- A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
- If a student cannot obtain background clearance from the clinical and/or field internship agencies, it will not be possible to place the student in the clinical/internship areas, which is a required component of the program. In the event that a student cannot obtain a background clearance, the space will be forfeited. Students who are found to be ineligible for clinical placement by the clinical agency and/or field internship after admission to the program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical/field internship rotations.
- A physical examination completed by a physician of the student’s choice is required after acceptance to the Program to demonstrate that a student meets the technical standards necessary to meet the Program objectives. Appropriate immunizations and/or vaccinations and mask fit testing are also required and are performed at the student’s expense.

More information can be found on the Allied Health web site at www2.bakersfieldcollege.edu/alliedhealth/ or in the Bakersfield College Allied Health Office, MS 178.

**Program Costs**

An estimated cost for the program is $2000.

**To Achieve the Associate in Science Degree**

Upon successful completion of the core requirements with a ‘B’ grade or better in each course AND successful completion of the
General Education courses with a 'C' grade or better, the student will be awarded a Paramedic Associate in Science Degree.

**Program Learning Outcomes**

- Upon completion of the program, the EMT-Paramedic student will demonstrate the ability to comprehend, apply, and evaluate the clinical information relative to the role of an entry level paramedic.
  
  Assessment: Written exams, verbal reports

- Upon completion of the program, the EMT-Paramedic student will demonstrate technical proficiency in all skills necessary to fulfill the role of the entry level paramedic.
  
  Assessment: Skill competency demonstrations, successful completion of field internship

- Upon completion of the program, the EMT-Paramedic student will demonstrate personal behaviors consistent with professional and employer expectations for the entry level paramedic.
  
  Assessment: Affective assessment tool, successful completion of field internship

**Total Units: 39.5**

**First Semester**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>EMTC B10</td>
<td>Paramedic 1</td>
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<tr>
<td>EMTC B11</td>
<td>Paramedic Skills Lab 1</td>
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<tr>
<td>EMTC B12</td>
<td>Paramedic 2</td>
<td>6.0</td>
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**Second Semester**

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<th>Title</th>
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<tbody>
<tr>
<td>EMTC B13</td>
<td>Paramedic 3</td>
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<td>EMTC B14</td>
<td>Paramedic Skills Lab 2</td>
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<tr>
<td>EMTC B15</td>
<td>Paramedic 4</td>
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**Third Semester**

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<tbody>
<tr>
<td>EMTC B16</td>
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<td>3.5</td>
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<tr>
<td>EMTC B17</td>
<td>Paramedic Field Internship</td>
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**Paramedic Program Certificate of Achievement**

The mission of the Paramedic Program is to provide a strong educational foundation so the future paramedics may improve the health and welfare of Kern County by providing the highest quality prehospital emergency medical care.

The Paramedic Program is designed to provide students with the education and experience to perform as competent, entry level Paramedics. The Paramedic Program received its initial accreditation by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). The program is also approved by Kern County Emergency Medical Services as meeting the EMS Education Standards as specified in Title 22 of the California Code of Regulations and the National Highway transportation and Safety Administration (NHTSA) Paramedic Curriculum.

The program consists of a minimum of 1090 hours of instruction which is divided into three distinct sessions: didactic/classroom instruction (minimum of 450 hours) clinical lab (minimum of 160 hours) and field internship (minimum of 480 hours). Upon completion of the program, graduates will earn a Certificate of Achievement and are eligible to take the National Registry Emergency Medical Technician - Paramedic examination (NREMT-P) which is required for paramedic licensure in the state of California. Paramedics are typically employed by ambulance companies, private industry, and fire departments to provide emergency care in case of illness or injury.

**Limitation on Enrollment**

As a condition of enrollment in any Allied Health Program, students are required to submit to and pass a designated drug and alcohol screening, a background screening, and physical examination clearance (at the student's expense). Please note the following:

- A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.

- A physical examination completed by a physician of the student's choice is required after acceptance to the Program to demonstrate that a student meets the technical standards necessary to meet the Program objectives. Appropriate immunizations and/or vaccinations and mask fit testing are also required and are performed at the student's expense.

More information can be found on the Allied Health web site at www2.bakersfieldcollege.edu/alliedhealth/ or in the Bakersfield College Allied Health Office. MS 178.

**Program approval/accreditation**

The Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). The program is also approved by Kern County Emergency Medical Services as meeting the EMS Education Standards as specified in Title 22 of the California Code of Regulations and the National Highway transportation and Safety Administration (NHTSA) Paramedic Curriculum. The Western Association of Schools and Colleges accredits Bakersfield College.

**Licensure/Certification eligibility**

Upon completion of the program students are eligible to take the National Registry of Emergency Medical Technicians examination for licensure as a paramedic. Conviction of any offenses other than minor traffic violations must be reported to the Sacramento Emergency Medical Services Authority of California at the time of application for licensure. Anyone who desires further clarification may contact the EMS Authority at (916) 322-4336.

**Program Costs**

An estimated cost for the program is $2000.

**To achieve the Certificate of Achievement**

Upon successful completion of the core requirements with a 'B' grade or better in each course, the student will be awarded a Paramedic Program Certificate of Achievement.
Program Learning Outcomes
- Upon completion of the program, the EMT-Paramedic student will demonstrate the ability to comprehend, apply, and evaluate the clinical information relative to the role of an entry level paramedic.
  Assessment: Written exams, verbal reports
- Upon completion of the program, the EMT-Paramedic student will demonstrate technical proficiency in all skills necessary to fulfill the role of the entry level paramedic.
  Assessment: Skill competency demonstrations, successful completion of field internship
- Upon completion of the program, the EMT-Paramedic student will demonstrate personal behaviors consistent with professional and employer expectations for the entry level paramedic.
  Assessment: Affective assessment tool, successful completion of field internship

First Semester
Course Number Title Units
EMTC B10 Paramedic 1 6.0
EMTC B11 Paramedic Skills Lab 1 1.0
EMTC B12 Paramedic 2 6.0

Second Semester
Course Number Title Units
EMTC B13 Paramedic 3 6.0
EMTC B14 Paramedic Skills Lab 2 1.0
EMTC B15 Paramedic 4 6.0

Third Semester
Course Number Title Units
EMTC B16 Paramedic Clinical Lab 3.5
EMTC B17 Paramedic Field Internship 10.0

Philosophy

Associate in Arts Degree for Transfer
The Associate in Arts in Philosophy for Transfer degree is designed to provide students a clear transfer pathway to the CSU philosophy major and completion of the philosophy baccalaureate degree, to grant guaranteed admission to a CSU to a similar major, with junior standing, and the ability to complete their remaining requirements within 60 semester or 90 quarter units. Philosophy has always been and continues to be one of the strongest traditional liberal arts majors in higher education. Some students major in Philosophy as a precursor to graduate work and academic careers, teaching and conducting research in Philosophy and Education. The emphasis on critical thinking, theories of knowledge, value and reality, truth, rational argument and proof make Philosophy an excellent pre-professional undergraduate major (e.g., for law, theology, medicine, business, computer science) or minor (e.g., for the natural, physical and social science and humanities majors).

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- Explicate and evaluate arguments.
- Explain major philosophical or religious ideas.
- Defend personal positions on important philosophical issues.
- Demonstrate clear writing and speaking about philosophical or religious ideas.

The following is required for the completion of all AA-T or AS-T degrees:
1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a "C" or better. A "P" (Pass) grade is not acceptable for courses in the major.

Required Core Courses
Course Number Title Units
PHIL B7 Introduction to Logic 3.0
PHIL B6A Introduction to Philosophy 3.0
PHIL B10 Introduction to Ethics 3.0

List A: Select 1 (3 units)
Course Number Title Units
Any Required Core course not already used

List B: Select 2 (6 units)
Course Number Title Units
Any List A course not already used
HIST B4A European Civilization 3.0
HIST B4B European Civilization 3.0

List C: Select 1 (3 units)
Course Number Title Units
Any List A or B course not already used
PHIL B9 Critical Thinking and Advanced Composition 3.0
PHIL B12 Ethics of Living and Dying 3.0

Total Units for the Major 18

Physics

Associate in Science Degree for Transfer
The goal of the program is to help students better understand the using physical world and the analysis of it through mathematical techniques using qualitative and quantitative reasoning. The coursework prepares students to think critically and apply reasoning skills to analyze real world situations. Students will be able to successfully transfer to any institution of higher learning armed with the foundation needed to pursue a baccalaureate degree in physics and will be prepared for careers as physicists in fields such as research, industry and education. Students will complete comprehensive curriculum to meet degree and transfer needs. This new degree builds upon the existing degree's emphases in mathematical modeling, reasoning and critical thinking skills. In addition, it will guarantee transfer to a California State University in the physics major (or a similar or equivalent program). Upon completion of the degree, students will be able to:
- apply appropriate physical laws and mathematical techniques to analyze various physical situations;
• perform various scientific experiments and to analyze data to check agreement with theoretical predictions.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
• demonstrate a knowledge of and recognize the processes that explain physical phenomena.
• apply the methodologies of science when approaching a physics problem.
• apply logical quantitative and qualitative reasoning in solving physics problems or analyzing arguments.

The Associate in Science degree in Physics for Transfer is designed to prepare students to begin upper division course work in pursuit of a bachelor’s degree (or ultimately a graduate degree) in physics upon transfer to a four-year college or university. Earning this degree should allow the student to become acquainted with the basic knowledge of physics contained in a calculus-based introductory physics sequence and the mathematics that supports that level of competency. The student will demonstrate proficiency in communication, critical thinking, quantitative problem solving, and laboratory science skills. This degree represents a step in a path preparing students for careers in any of the many branches of physics, physics education, and other technical fields, such as some engineering disciplines in which physics is an integral part. To achieve the Physics Associate in Science degree for transfer, the student will need to complete the following courses with at least a ‘C’ grade in each course. A ‘P’ (Pass) grade is not acceptable for courses in the major. In order to earn the Physics AS-T, students must complete 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AS-T will be required to complete more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The following is required for the completion of all AA-T or AS-T degrees:
1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   • The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   • A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtaining of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

Program Learning Outcomes
Upon successful completion, the student will be able to:
• Students will demonstrate their understanding of the relevance of state and local politics, determining and developing an objective appraisal of major trends in social, economic, and political life.
• Students will evaluate the power relationships between legislative, executive and judicial branches of government.
• Students will compare and contrast the factors that determine the emergence of republican or authoritarian systems of governance.
• Students will evaluate the influence of conflict and cooperation in the international bargaining process.

Required Core Courses
Course Number Title Units
POLS B1 American Government: National, State and Local 3.0

List A
Course Number Title Units
POLS B2 Comparative Government 3.0
POLS B3 International Politics 3.0
POLS B22 Elementary Probability and Statistics 4.0
PSYC B5 Elementary Statistics for the Behavioral and Social Sciences 4.0

List B (select two of the following courses)
Course Number Title Units
POLS B12 Contemporary Issues in California State and Local Government 3.0
POLS B16 Vital Political Problems 3.0
HIST B4A European Civilization 3.0
HIST B4B European Civilization 3.0
HIST B17A History of the United States 3.0

Associate in Arts in Political Science for Transfer
The Associate in Arts in Political Science for Transfer degree is designed for students interested in gaining an understanding of the structure and functions in governments. This degree provides a foundation for further study for students planning to transfer into a baccalaureate program in political science. Successful completion of the Associate in Arts in Political Science for Transfer degree guarantees the student acceptance to a California State University (but not to a particular campus) to pursue a baccalaureate degree in Political Science. This degree may not be the best option for students intending to transfer to a particular CSU campus or a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.
Clinical Prerequisites

Only work from a regionally accredited college can be accepted. A minimum grade of 'C' must be attained in each of these courses.

Program Academic Prerequisites

Advisor Dinorah Castro via email dicastro@bakersfieldcollege.edu for Bakersfield College pre-requisite course information contact BC

For application and program information contact Carlos Flores PA-C, Kern County Regional Coordinator via email cdadflores@aol.com for Bakersfield College pre-requisite course information contact BC Advisor Dinorah Castro via email dicastro@bakersfieldcollege.edu

Program Academic Prerequisites

A minimum grade of 'C' must be attained in each of these courses. Only work from a regionally accredited college can be accepted.

- Intermediate Algebra – MATH BD/B70 at Bakersfield College
- Introductory or General Chemistry – CHEM B11, B1A, or B18 at Bakersfield College
- Cultural Anthropology or Introduction to Sociology – ANTH B2 or SOC B1 at Bakersfield College
- English/Expository Composition – ENGL B1A at Bakersfield College
- General Psychology – PSYC B1A at Bakersfield College
- General Microbiology (with lab) – BIOL B16 at Bakersfield College
- Human Anatomy and Physiology I (with lab) – BIOL B32 at Bakersfield College
- Human Anatomy and Physiology II (with lab) – BIOL B33 at Bakersfield College

Clinical Prerequisites

Minimum requirements for application and admission include:

- United States citizen or permanent visa.
- High School Diploma or equivalent.
- A minimum of 3,000 hours of direct patient care experience (this requirement can be met with 18 months of full-time work experience or equivalent part-time hours).
- Satisfactory completion of the following academic prerequisites or their equivalents.

General Education courses are required for the Primary Care Associate program. It is recommended that an associate degree at Bakersfield College (AS in Biology - Human Biology Emphasis) be completed prior to applying to the program.

Clinical Preceptorship Experience

The PCA Program takes responsibility for approving and placing students in clinical settings. The goal is for students to train at primary care sites in their community. The student may be required to relocate or travel if an appropriate preceptor site cannot be located in their immediate area. These primary care practices include a mix of family medicine, internal medicine, pediatrics and women’s health sufficient to provide a broad base of experience in health care of all genders, ages, and across the life span. Continuity of care is emphasized. In keeping with our mission students are required to have a portion of their primary care training occur at an officially-determined underserved site.

Psychology

Psychology Associate in Arts for Transfer

The Associate in Arts in Psychology for Transfer is intended for those transfer-directed students who plan to complete an Associate of Arts in Psychology because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Psychology for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Psychology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. This degree eliminates the additional Bakersfield College graduation requirements.

The major in psychology provides a study of the behavior of individuals and groups. The four-year degree in this major contributes to the foundational knowledge for positions in research and teaching, counseling, and working in clinical settings.

To Achieve the Associate in Arts for Transfer

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Psychology Associate in Arts for Transfer degree.

To Transfer Coursework

A minimum of 21 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

The successful student will be able to:

- Demonstrate an understanding of the perspectives, theories, methods and core concepts of the behavioral sciences.
- Explain the major problems and issues in the disciplines in their contemporary, historical and geographical contexts.
• Demonstrate an understanding of and an ability to describe the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B1A*</td>
<td>General Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B1B*</td>
<td>Biological Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B5*</td>
<td>Elementary Statistics for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
<tr>
<td>PSYC B6*</td>
<td>Research Methods for the Behavioral and Social Sciences</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Any two of the following courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC B20*</td>
<td>Social Psychology</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B30*</td>
<td>Human Sexuality</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B33*</td>
<td>Psychology of Personal and Social Adjustment</td>
<td>3.0</td>
</tr>
<tr>
<td>PSYC B40*</td>
<td>Introduction to Lifespan Psychology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Required Subtotal: 20.0

Additional coursework:

- CSU General Education or IGETC Pattern: 39.0
- Transfer Electives (as needed to reach 60 transferable units)

Degree Total: 60.0

*Courses with an asterisk can be double counted for General Education. No additional graduation requirements are required to complete this degree.

Radiologic Technology

Radiologic Technology is a health care profession whose practitioners work in hospitals, imaging centers, and private physicians' offices. The radiologic technologist (radiographer) is a member of the health care team who works directly with the patient and the physician performing a wide variety of diagnostic x-ray procedures. The role of the graduate radiographer may be that of staff radiographer, special imaging radiographer, supervisor, administrator or educator, depending upon the level of education and experience obtained.

The Bakersfield College Associate in Science degree Radiologic Technology Program provides concurrent didactic and clinical education. The program is 24 months in length (excluding prerequisite coursework) and begins each year in June. Students should anticipate making a full time commitment to the program during the school year. Summer sessions are required and semester/term may be scheduled beyond the regular college session dates. The Program is primarily scheduled during the day; however an evening clinical rotation will be completed during the second year of the program. Clinical education sites include hospitals and imaging centers located in Bakersfield, California and Delano, California. Students may be assigned to any clinical education center in any geographical location and must provide their own transportation to these centers.

The program provides the theory, skill and experience necessary to apply for admission to the licensure exam administered by the American Registry of Radiologic Technologists; and for certification from the State of California, Department of Public Health, Radiologic Health Branch, as a Certified Radiologic Technologist. The student is also eligible to write the State Fluoroscopy Permit exam. Students must earn a minimum grade of 'C' in all radiography courses, have met the State mandated curriculum and clinical hours, met all clinical education competencies and earned the Associate in Science degree to be recommended for these examinations/certifications.

For program information, brochure and enrollment application form, consult the following website at www.bakersfieldcollege.edu/allied-health.

Radiologic Technology Program Mission, Goals and Outcomes

The mission of the Bakersfield College Radiologic Technology Program is to promote student success by providing quality instruction for graduates to competently practice radiography at the entry level. The Program learning goals and outcomes are:

(Goals 1-5; Learning Outcomes a,b,c, etc.)

1. Students will be clinically competent.
   a) Students will apply positioning skills.
   b) Students will select exposure factors.
   c) Students will utilize radiation protection.
   d) Students will demonstrate and employ knowledge of equipment operation.

2. Students will develop critical thinking skills.
   a) Students will demonstrate the ability to formulate technical factors.
   b) Students will adapt standard procedures for non-routine patients.
   c) Students will demonstrate independent judgment.
   d) Students will critique images to determine diagnostic quality.

3. Students will communicate effectively.
   a) Students will demonstrate effective communication.
   b) Students will use correct pronunciation.

4. Students will model professionalism.
   a) Students will demonstrate knowledge of professional imaging organizations.
   b) Students will summarize the value of life-long learning.
   c) Students will demonstrate work ethics.

5. The Program will graduate entry-level radiographers.
   a) Program graduates will pass the ARRT exam on the 1st attempt.
   b) Graduates seeking employment will obtain employment within 12 months of graduation.
   c) Students will successfully complete each course.
   d) Students will successfully complete the program.
   e) Graduates will be satisfied with their education.
   f) Employers will be satisfied with graduate performance.

Radiologic Technology Program Prerequisite Requirements

All prerequisite coursework must be completed prior to applying for the Radiologic Technology Program. Students are strongly encouraged to complete prerequisite courses prior to enrolling in general education courses. This will improve a student's opportunity to apply for program enrollment. The following prerequisite courses must be completed with a C grade or higher.

1. BIOL B18 (Essentials of Anatomy and Physiology)
   -or-
   BIOL B32 (Human Anatomy and Physiology I)
   -and-
   BIOL B33 (Human Anatomy and Physiology II)
   -or-
   equivalent course(s) at another accredited college.
Note: BIOL B14 (Human Anatomy) and BIOL B15 (Human Physiology) were previously taught at Bakersfield College and they meet this requirement.

2. MATH BD/B70 (Intermediate Algebra-5 units) at Bakersfield College or equivalent course at another accredited college. A higher level college math course will be accepted in lieu of this algebra requirement.

3. MEDS B60 (Medical Terminology - 3 units) at Bakersfield College or equivalent course at another accredited college.

4. ENGL B1A (Expository Composition - 3 units); or an equivalent course at another accredited college. This prerequisite must be met by all new and Wait List applicants effective February 2013.

5. Minimum cumulative grade point average of 2.7 with MATH BD/B70 passed on the first attempt; OR Minimum cumulative grade point average of 2.9 with MATH BD/B70 passed on the second attempt. Note: All course attempts including grades of ‘D’, ‘F’ and withdrawals [W] are included in the review of the course attempts. Students with more than two math attempts are not initially eligible for the program. In addition, for students who use a higher level math course in lieu of Intermediate Algebra these same requirements for minimum cumulative grade point average and course attempts apply in order to meet program prerequisites.

Remediation Plan:
Students who do not initially meet the eligibility requirement for passing the MATH BD/MATH B70 prerequisite within two attempts must complete all of the following remediation requirements to be considered eligible to apply for the Radiologic Technology Program.

- Completion of ACDV B70A-B70F- Study Skills courses with a grade of ‘B’ or better
- Completion of MATH B22 Elementary Probability and Statistics with a minimum grade of ‘C’ on the first course attempt
- Successful completion of the Remediation Program must be completed within 1 year of initial application to the program.

Students who do not meet the grade point average (GPA) eligibility requirement of either 2.7 or 2.9 are advised to research and complete, if applicable, an Academic Renewal request through the Bakersfield College established process identified in the college catalog for a recalculation of their GPA. Documentation of completion of the remediation plan must be submitted to the Program at the time of application. Documentation is made through college transcripts.

6. Graduation from high school or an equivalent education.

Enrollment Procedures and Application Filing Period
Application forms and all required documents must be received by the Radiologic Technology Program Office during the application month of February. Late applications will not be accepted.

Application Procedures
It is the students’ responsibility to ensure that the following items are completed prior to the end of the application period held in the month of February:

1. Complete required prerequisite courses (see above).

2. Obtain application form from the Allied Health Department located in Room 178 of the Math-Science Building on the main campus, or on the Allied Health website at www.bakersfieldcollege.edu/allied-health/radtech
3. Arrange for an official copy of your high school transcript to be mailed directly to the: Radiologic Technology Program, Bakersfield College, 1801 Panorama Drive, Bakersfield, CA 93305. An official copy of High School Equivalency (GED) is required if your high school transcript does not identify graduation.
4. If you are a Bakersfield College Student with no college courses other than BC courses: Provide the Program with an unofficial Bakersfield College transcript from the college website or an unofficial transcript from the Admissions & Records Office.
5. If you have taken courses from any college other than Bakersfield College:
   a) Apply for admission to Bakersfield College either in person or online at www.bakersfieldcollege.edu and click on Admissions & Records. Follow the information under Enrolling.
   b) Have your college transcript(s) evaluated by:
      • Ordering an Official copy of your transcripts from your previous college(s);
      • Submit the Official copy of your transcripts along with a form "Request for Evaluation". You can obtain this form from the Admissions and Records office or from the Admissions and Records web-page (see above) under Other Forms.
      • Once your transcripts have been evaluated and posted to your Bakersfield College transcripts, either order an official copy to be sent from the Admission and Records office or print your unofficial transcript and submit along with the Application Form to the Radiologic Technology Program during the application filing period during the month of February.
      • If you have taken courses from Porterville or Cerro Coso Community College, you only need to submit the “Request for Evaluation” form. You do not need official copies of transcripts from Porterville or Cerro Coso Community College

Note: The process of evaluating transcripts can take 25 weeks. Once your transcripts have been evaluated and posted to your Bakersfield College transcript, the student must print a copy of the Bakersfield College transcript from the website and then submit it to the Program prior to the end of the application filing period during the month of February. It is the responsibility of the student to supply this information to the Program.

6. Late application materials will not be considered for the current application period. Applicants are responsible for ensuring that their application is complete. The Program is not responsible for late materials or incomplete applications. The application must be thoroughly complete and signed to be considered for eligibility.
7. Students on the waitlist must reapply annually during the enrollment month of February. This is required every year to keep the applicant’s file current. If the student does not reapply, the student will be removed from the waitlist.

General Education Requirements
General education courses are required to graduate from the Bakersfield College Associate in Science Degree Radiologic Technology Program. It is suggested that these courses be completed prior to program enrollment. Refer to the Bakersfield College General Education and Graduation Requirements in the
The Radiologic Technology Program completion equivalent is necessary to meet Radiologic Technology requirements. Completion of the AS Degree is required to meet eligibility requirements for certification and licensure.

- **A.1 Oral Communication (3 units)**
  - COMM B1 recommended; Any course listed in Area A.1 of the Gen Ed Pattern in BC Catalog
    - A.2 Written Communication (3 units)
      - ENGL B1A–prerequisite course
    - B. Physical Universe and Life Forms (4 units)
      - B.1 Natural Sciences (4-8 units)
        - BIOL B18 or BIOL B32 & BIOL B33
      - B.2 Mathematics and Logic (3-5 units)
        - MATH B70 (5 units) -prerequisite course
    - C. Arts, Literature, Philosophy, and Foreign Language (3-5 units)
      - PHIL B12 recommended or any course in Area C: Gen Ed Pattern in the BC Catalog
    - D. Social, Political, Legal and Economic Institutions & Behavior, Historical Background (6 units)
      - D.1 Foundations in the Behavioral Sciences (3 units):
        - Any course listed in Area D.1 of the Gen Ed Pattern in the BC Catalog or
        - D.2 Foundations in the Social Sciences (3 units): Any course listed in Area D.2 of the Gen Ed Pattern in the BC Catalog and
        - D.3 American (U.S. Institutions) (3 units)
          - Any course listed in Area D.3 of the Gen Ed Pattern in the BC Catalog
    - E. Lifelong Understanding and Self-Development (1 unit)
      - Physical Education 1 unit required from PHED courses listed in the BC catalog.
      - Rad Tech students are exempt from the 3 unit course in the psychological development category
      - Educational Planning –STDV B1 recommended or any course listed in the BC Catalog General Requirements (Recommended to be taken during the first semester of courses at BC to assure priority registration.)
      - Computer Studies (3 units): COMP B2 or COMP B5 or equivalent is necessary to meet Radiologic Technology Program completion.

**Health Requirements and Screenings**
1. A physical examination will be required after the students receive notification of enrollment into the program to demonstrate that a student meets the technical standards necessary to meet the objectives of the program. A copy of the Essential Technical Standards required for Radiologic Technologists may be obtained in the Allied Health Division Office located in the Math-Science building, room 178 or on the program website at www.bakersfieldcollege.edu/allied-health.
2. As a condition of enrollment to the Radiologic Technology Program, all students are required to submit to and pass a designated drug and alcohol screen.
3. As a condition of enrollment in any Allied Health Program with a clinical component, students are required to submit to and pass a designated background check. Every student offered space in the program will be required to submit to a background screening as part of his or her clinical requirements for admission. Please note the following:
   - A history of felony conviction(s) or any bar, exclusion or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
   - If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the program.
   - In the event that a student cannot obtain a background clearance, the space will be forfeited.
   - Students who are found to be ineligible for clinical placement by the clinical agency after admission to the radiography program shall be subject to dismissal from the program, as they will be unable to complete mandatory clinical rotations.
4. Immunizations/health tests are needed for acceptance in a clinical education center and to protect the health and welfare of the student and community. Immunizations may include, but not be limited to, rubella, varicella, Hepatitis B, and Tuberculosis screening and the seasonal flu vaccine is also required.
5. The medical exams, drug/alcohol screens, background screen, immunizations and tests are performed at the expense of the student.
6. The student must possess a current Basic Life Support/CPR (cardiopulmonary resuscitation) card by the American Health Association (Healthcare Provider card). This card must be provided at the start of the program and be kept valid during the entire 24-month program.

**Estimated Program Costs (Gainful Employment)**
Students will be required to purchase uniforms, textbooks, and supplies, pay current college fees and provide transportation to off campus clinical education centers in Bakersfield, California and Delano, California. For information on Estimated Program Costs, please visit our website at: http://www.bakersfieldcollege.edu/download/11612

**Licensure/Certification Eligibility**
The American Registry of Radiologic Technologists (ARRT) requires review of any conviction, misdemeanor or felony, or a sanction by the Program regarding an academic honor code, or review of suspension or dismissal by a radiography program and review of licensure suspension, denial or other disciplinary action by a regulatory authority or certification board other than the ARRT. This review may be conducted prior to or during the program. For more information contact the ARRT at: 1225 Northland Drive, Mendota Heights, MN 55120, (651) 687-0048, or www.arrt.org. The State Department of Public Health, Radiologic Health Branch and the American Registry of Radiologic Technology requires possession of either a Social Security number or Tax payer ID number to apply for licensure and/or registration.

**Accreditation**
Bakersfield College is accredited by the Western Association of Schools and Colleges. The Radiologic Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, Illinois 60606-3182, (312) 704-5300 or www.jrcert.org. The program is also approved by the State of California, Department of Public Health, Radiologic Health Branch, P.O. Box 997414, MS-7610, Sacramento, CA, 95899-7414, (916) 327-5106 or www.cdph.ca.gov/rhb.
### Principles of Fluoroscopy Job Skills Certificate

This certificate provides fluoroscopy skills for students completing the Associate in Science Radiologic Technology program. The certificate is required as proof of completion to meet the regulations specified by the California Code of Regulations, Title 17: Public Health, Article 8: Additional School Requirements and Record Keeping, Section. 30437. The certificate is part of the Career and Technical Education program which prepares students for State licensure which is necessary for employment in the field of x-ray technology.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Principles of Fluoroscopy Job Skills Certificate.

**To Transfer Coursework**

A minimum of 24.5 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- employ appropriate radiation protection practices for patients and themselves.
- competently perform radiographic positioning.

### Required Courses

Completion of Radiologic Technology Program courses (some hours are contained within each of the following courses. These courses are state approved by the California Department of Public Health)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>RADT B2A</td>
<td>Radiographic Anatomy and Positioning 1</td>
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<tr>
<td>RADT B3B</td>
<td>Radiographic Anatomy and Positioning 2</td>
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</tr>
<tr>
<td>RADT B5</td>
<td>Radiation Physics</td>
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<tr>
<td>RADT B12</td>
<td>Radiobiology and Radiation Protection</td>
<td>2.0</td>
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<tr>
<td>RADT B4A</td>
<td>Introduction to Clinical Education</td>
<td>1.5</td>
</tr>
<tr>
<td>RADT B4B</td>
<td>Clinical Education 1</td>
<td>4.0</td>
</tr>
<tr>
<td>RADT B3A</td>
<td>Radiographic Principles 1</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B3B</td>
<td>Radiographic Principles 2</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B2B</td>
<td>Clinical Education 2</td>
<td>5.0</td>
</tr>
<tr>
<td>RADT B6</td>
<td>General Education (if needed)</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B2C</td>
<td>Radiograph Anatomy and Positioning 3</td>
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</tr>
<tr>
<td>RADT B5</td>
<td>Radiation Physics</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B10</td>
<td>Clinical Education 4</td>
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<tr>
<td>RADT B9A</td>
<td>Sectional Anatomy for Medical Imaging</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B11</td>
<td>Radiographic Pathology</td>
<td>2.0</td>
</tr>
<tr>
<td>RADT B30</td>
<td>Principles of Venipuncture</td>
<td>1.0</td>
</tr>
<tr>
<td>RADT B13</td>
<td>Clinical Education 5</td>
<td>6.5</td>
</tr>
</tbody>
</table>

This certificate provides fluoroscopy skills for students completing the Associate in Science Radiologic Technology program. The certificate is required as proof of completion to meet the regulations specified by the California Code of Regulations, Title 17: Public Health, Article 8: Additional School Requirements and Record Keeping, Section. 30437. The certificate is part of the Career and Technical Education program which prepares students for State licensure which is necessary for employment in the field of x-ray technology.

**To Achieve the Job Skills Certificate**

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Principles of Venipuncture Job Skills Certificate.

**To Transfer Coursework**

A minimum of 24.5 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate competency by successfully performing venipuncture techniques on humans in the laboratory setting.

### Program Learning Outcomes

Upon successful completion, the student will:

- competently perform radiographic positioning.
- employ appropriate radiation protection practices for patients and themselves.
Sociology

Associate in Arts for Transfer

The Associate in Arts in Sociology for Transfer is intended for those transfer-directed students who plan to complete an AA in Sociology because it guarantees admission to the CSU system (but not to a particular campus or major). In order to earn the Associate in Arts in Sociology for Transfer, students must complete a minimum of 60 required semester units of CSU-transferable coursework which includes the CSU General Education or IGETC requirements with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the Associate in Arts in Sociology for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated high-unit major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. No additional graduation requirements are required to complete this degree.

Sociology is the study of groups, institutions, social relationships, and social problems in contemporary society. The sociology major prepares the student for careers in law, social work, human services, urban development, law enforcement agencies, public service, counseling, mental health, teaching, and community service. Students will be prepared for a baccalaureate degree in Sociology or a similar degree.

1. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses counted toward the major.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

Required Core Courses: 3 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI B1*</td>
<td>Introduction to Sociology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Note: The clinical components of all radiologic technology courses are graded on a Pass/No Pass basis only. Radiologic Technology students are exempt from the maximum of three Pass/No Pass units which may be taken in a semester and from the maximum of 12 Pass/No Pass units which may be applied toward the AS degree at Bakersfield College.

Spanish

Associate in Arts in Spanish for Transfer

The Associate in Arts in Spanish for Transfer degree provides a linguistic study of the language and an in-depth look into the culture of the Spanish-speaking world. The objective of the program is to provide students with opportunities to obtain an AA degree in Spanish, transfer to a four-year college, and achieve their academic goals. Graduates of this program will be better prepared for employment in both academic and non-academic fields, such as schools, corporations, business entities, and not-for-profits.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University - Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a 'C' or better. A 'P' (Pass) grade is not acceptable for courses in the major.

Departmental placement evaluation determines the course level where individual students begin the core courses. Credit or placement equivalent to two years of college level Spanish is required. If a student places out of any course and is not awarded
units for that course, the student will need additional coursework to reach at least 19 total units in the major. Due to differences in unit values, it may be necessary to substitute two 3 unit courses for each 4 unit required core course not taken.

**Program Learning Outcomes**

Upon successful completion, students will be able to:

- **Speaking:** Students will demonstrate the ability to speak using appropriate grammatical forms as well as vocabulary appropriate to the level of those students who are seeking an AA-T degree in Spanish. They will show this through dialogues, prepared presentations, impromptu conversations with other students and the professor.

- **Comprehension:** Students will demonstrate the ability to understand spoken Spanish as evident in responses through prepared dialogues and presentations as well as impromptu conversations with other students and the professor. Students will also demonstrate understanding of spoken Spanish on graded exams and directed interview questions.

- **Writing:** Students will demonstrate the ability to write using appropriate grammatical forms as well as vocabulary appropriate to the level of those students who are seeking an AA-T degree in Spanish. They will show this through informal writing and formal writing.

- **Reading:** Students will exhibit reading comprehension of informal and formal written texts including informal letters or short essays as well as literature and news articles from various parts of the Spanish speaking world.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN B1</td>
<td>Elementary Spanish I</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B2</td>
<td>Elementary Spanish II</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B3</td>
<td>Intermediate Spanish I</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B35</td>
<td>Spanish for Heritage Speakers I</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B4</td>
<td>Intermediate Spanish II</td>
<td>4.0</td>
</tr>
<tr>
<td>SPAN B36</td>
<td>Spanish for the Heritage Speakers II</td>
<td>4.0</td>
</tr>
</tbody>
</table>

### Substitution Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART B37</td>
<td>Survey of Art – Latin America</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Any course(s) from List A not already used: 3-9

### List A (any one of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL B24</td>
<td>Latino/a Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30A</td>
<td>Early Chicano History</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B30B</td>
<td>History of Chicanos in the Southwest</td>
<td>3.0</td>
</tr>
<tr>
<td>HIST B33</td>
<td>Latin American History</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B36</td>
<td>Sociology of the Chicano</td>
<td>3.0</td>
</tr>
<tr>
<td>SOCI B45</td>
<td>Minority Relations</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total required units: 19-21

### Theatre

**Associate in Arts in Theatre Arts for Transfer**

The Associate in Arts in Theatre Arts for Transfer Degree (AA-T in Theatre Arts) is designed to provide students a clear transfer pathway to CSU campuses that offer bachelor’s degrees in Theatre Arts. Ed Code Section 66746-66749 states that students earning the Associate in Arts in Theatre Arts for Transfer Degree (AA-T in Theatre Arts) will be granted priority for admission as a Theatre major to a local CSU, as determined by the CSU campus to which the student applies. This degree requires students to complete 60 CSU transferable units including completion of CSU or IGETC and 18 units in the major with a cumulative GPA of 2.0 or better. Title 5 requires that students earn a grade of ‘C’ or better in all major coursework. This degree provides students with an understanding and an appreciation for the art of theatre and includes courses in acting, technical theatre, rehearsal and performance as well as an introduction to the theatre and play analysis. Completion of this curriculum will provide preparation for future theatre studies. The Associate in Arts in Theatre Arts for Transfer Degree (AA-T in Theatre Arts) requires 18 units of which 9 units are in required core courses. An additional 9 units are in restricted electives from the categories below as indicated.

The following is required for the completion of all AA-T or AS-T degrees:

1. The completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University – Breadth Requirements.
   - A minimum of 18 semester units in a major area of emphasis, as determined by the district.
2. The obtainment of a minimum grade point average of 2.0.
3. The completion of all courses required for the major with a ‘C’ or better. A ‘P’ (Pass) grade is not acceptable for courses in the major.

**Program Learning Outcomes**

Upon successful completion, the student will be able to:

- demonstrate the ability to recognize, describe, and/or effectively produce various components of a performing art form.
- demonstrate an understanding and appreciate of the ways in which arts reflect historical, intellectual, and cultural contexts, as well as aesthetic tastes.
- demonstrate through successful group or individual performance acquired skills and knowledge appropriate to a particular performing art form.

### Required Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA B20</td>
<td>Introduction to Theatre</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B1</td>
<td>Introduction to Acting</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B27</td>
<td>Acting Theatre Laboratory</td>
<td>1.3</td>
</tr>
<tr>
<td>THEA B28</td>
<td>Technical Theatre Laboratory</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### List A (any three of the following courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA B2A</td>
<td>Elements of Acting</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B2B</td>
<td>Elements of Acting</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B14</td>
<td>Introduction to Stage Costume</td>
<td>3.0</td>
</tr>
<tr>
<td>THEA B16</td>
<td>Stagecraft</td>
<td>3.0</td>
</tr>
</tbody>
</table>

If not used in required core:
THEA B27  Acting Theatre Laboratory                   1-3
- or -
THEA B28  Technical Theatre Laboratory   1.0

Total required units: 18

Welding

**Blueprint Reading and Layout for Welders Job Skills Certificate**

This certificate covers the principles of blueprint reading as it applies to welders. Emphasis is placed on the ability to visualize and interpret working drawings. Welding symbols and basic shop math are included. Layout techniques including mathematical and pipe fitting technology are covered. Career opportunities include blueprint reading and layout in the welding industry.

*To Achieve the Job Skills Certificate*

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Blueprint Reading and Layout for Welders Job Skills Certificate.

*To Transfer Coursework*

A minimum of 6 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program or certification in the department programs.

Total Units: 6

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD B54A</td>
<td>Blueprint Reading for Welders and Machinists</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B54B</td>
<td>Template Development and Layout for the Welder</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Gas Metal Arc/Gas Tungsten Arc Welding/Flux Core Arc Welding Job Skills Certificate**

This certificate emphasizes welding processes of gas metal arc welding (GMAW), gas tungsten arc welding (GTAW) and flux core arc welding (FCAW). Theory and application as well as safety of these applications while welding on mild steel, aluminum and stainless steel are emphasized.

*To Achieve the Job Skills Certificate*

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Gas Metal Arc/Gas Tungsten Arc Welding/Flux Core Arc Welding Job Skills Certificate.

*To Transfer Coursework*

A minimum of 8 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 8

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD B1A</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74A</td>
<td>Introduction to GMAW (Gas Metal Arc Welding) and FCAW (Flux Core Arc Welding)</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74B</td>
<td>Introduction to Gas Tungsten Arc Welding</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Shielded Metal Arc Welding Job Skills Certificate**

This certificate emphasizes welding processes from oxy-acetylene cutting and brazing through shielded metal arc welding using many different welding electrodes and all positions. Blueprint reading and pattern layouts for welding are highlighted. Career opportunities include entry level welding jobs requiring the use of the SMAW process, blueprint reading, and layout.

*To Achieve the Job Skills Certificate*

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded a Shielded Metal Arc Welding Job Skills Certificate.

*To Transfer Coursework*

A minimum of 14 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

**Program Learning Outcomes**

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 14

**Required Courses**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD B1A</td>
<td>Introduction to Oxygen Acetylene Welding</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to the Wedding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B53AB</td>
<td>Shielded Metal Arc Welding</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B54A</td>
<td>Blueprint Reading for Welders and Machinists</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B54B</td>
<td>Template Development and Layout for the Welder</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Welding Certificate of Achievement

Students must comply with the requirements as shown in the catalog under certificate requirements. Students should seek the advice of a welding instructor, counselor or advisor for assistance in planning for a welding Certificate of Achievement. Career opportunities include jobs requiring the ability to weld in multiple processes, to interpret and create blueprints, to perform layout operations, and to perform basic machining tasks.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a ‘C’ grade in each course, the students will be awarded a Welding Certificate of Achievement.

To Transfer Coursework

A minimum of 32 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate problem solving skills used in industrial design and product development.
- demonstrate a deep understanding of the core material required for transfer to a four year university degree program or for certification in the department programs.

Total Units: 32

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD B1A</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B53AB</td>
<td>Shielded Metal Arc Welding</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B55AB</td>
<td>Structural Plate Certification I, II</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B55CD</td>
<td>ASME Pipe Certification</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B74A</td>
<td>Introduction to GMAW (Gas Metal Arc Welding) and FCAW (Flux Core Arc Welding)</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74B</td>
<td>Introduction to Gas Tungsten Arc Welding</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B54A</td>
<td>Blueprint Reading for Welders &amp; Machinists</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B54B</td>
<td>Welded Steel Structures</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B1AB</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
<tr>
<td>INDT B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B271</td>
<td>Special Problems in Welding</td>
<td>2-3.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Industrial Technology, Welding Option Associate in Science

Students must comply with the requirements as shown in the catalog under graduation requirements. Students should seek the advice of a welding instructor, counselor or advisor for assistance in planning for an associate degree. Career opportunities include jobs requiring skills in welding and layout.

To Achieve the Associate in Science

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Industrial Technology, Welding Option Associate in Science degree.

To Transfer Coursework

A minimum of 39-40 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for employment in the welding industry.
- demonstrate problem solving skills used in product design and development in the welding industry.

Total Units: 39-40

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD B1A</td>
<td>Introduction to Oxygen Acetylene Welding and Cutting</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B1B</td>
<td>Introduction to the Welding Processes</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B53AB</td>
<td>Shielded Metal Arc Welding</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B55AB</td>
<td>Structural Plate Certification I, II</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B55CD</td>
<td>ASME Pipe Certification</td>
<td>4.0</td>
</tr>
<tr>
<td>WELD B74A</td>
<td>Introduction to GMAW (Gas Metal Arc Welding) and FCAW (Flux Core Arc Welding)</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B74B</td>
<td>Introduction to Gas Tungsten Arc Welding</td>
<td>2.0</td>
</tr>
<tr>
<td>WELD B54A</td>
<td>Blueprint Reading for Welders &amp; Machinists</td>
<td>3.0</td>
</tr>
<tr>
<td>WELD B54B</td>
<td>Welded Steel Structures</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B1AB</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
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<td>INDT B12</td>
<td>Introduction to Drafting and CAD</td>
<td>2.0</td>
</tr>
<tr>
<td>INDT B271</td>
<td>Special Problems in Welding</td>
<td>2-3.0</td>
</tr>
<tr>
<td>INDT B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Woodworking/Cabinetmaking

Woodworking/Cabinetmaking
Job Skills Certificate

This certificate covers the principles of woodworking to include materials, hand tools, wood cutting machinery and wood finishing. Emphasis will be put on designs to include modular construction, new materials and processes. Advanced bidding techniques are discussed.

To Achieve the Job Skills Certificate

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Woodworking/Cabinetmaking Job Skills Certificate.

To Transfer Coursework

A minimum of 6 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will

• demonstrate proficiency in technical skills and safety principles required for employment in the woodworking/cabinetmaking industry.
• demonstrate problem solving skills used in product design and development in the woodworking industry.
• demonstrate a deep understanding of the core material required for certification in the woodworking program.

Total Units: 6

Select 6 units from the following

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOOD B1</td>
<td>Introduction to Woodworking Technologies</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B5</td>
<td>Intermediate Cabinetmaking</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Cabinetmaking
Certificate of Achievement

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded a Cabinetmaking Certificate of Achievement.

To Transfer Coursework

A minimum of 23 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will

• demonstrate proficiency in technical skills and safety principles required for industrial employment.
• demonstrate problem solving skills used in industrial design and product development.
• demonstrate a deep understanding of the core material required for transfer to a four year university degree program and/or certification in the department programs.

Total Units: 29

Required Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOOD B1</td>
<td>Introduction to Woodworking Technologies</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B2</td>
<td>Furniture and Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B5</td>
<td>Intermediate Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B65A</td>
<td>Advanced Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>WOOD B65B</td>
<td>Advanced Cabinetmaking</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGL B50</td>
<td>Modern College Arithmetic and Pre-Algebra</td>
<td>4.0</td>
</tr>
<tr>
<td>ENGR B12</td>
<td>Special Problems in Woodworking</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGR B10</td>
<td>Occupational Readiness</td>
<td>3.0</td>
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</tbody>
</table>

Electives — to equal 33 units

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR B20A</td>
<td>Computer Aided Drafting and Design (CAD)</td>
<td>3.0</td>
</tr>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>ENGR B50</td>
<td>Introduction to College Composition</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Industrial Technology, Woodworking and Cabinetmaking Option
Associate in Science

To Achieve the Associate in Science

Upon completion of the following courses with at least a ‘C’ grade in each course, the student will be awarded an Industrial Technology, Woodworking and Cabinetmaking Associate in Science degree.

To Transfer Coursework

A minimum of 29 semester units in the major with a grade of ‘C’ or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

Program Learning Outcomes

Upon successful completion, the student will

• demonstrate proficiency in technical skills and safety principles required for employment in the woodworking/cabinetmaking industry.
• demonstrate problem solving skills used in product design and development in the woodworking industry.
• demonstrate a deep understanding of the core material required for certification in the woodworking program.
## Suggested Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORE B2</td>
<td>Natural Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>INDR B30B</td>
<td>Industrial Drawing</td>
<td>3.0</td>
</tr>
<tr>
<td>MFGT B1AB</td>
<td>Machine Tool Processes</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Courses
Academic Development Courses

ACDV B5 Tutor Training and Practicum Level 1  
1 unit  
Prerequisite: Minimum grade of 'B' in subject to be tutored and approval of subject area instructor and evaluation of prerequisites by the Tutor Trainer and/or Tutor Coordinator.  
Recommended: Reading - 1 Level Prior to Transfer  
Description: Essential human relations skills and methods of effective tutoring, placing these skills into practice with tutees assigned by the Tutor Coordinator. This course is required for Level 1 International Tutor Training Program Certification (ITTPC). Tutors are referred by subject area instructor(s).  
Note: Must have the ACDV B5 instructor's signature to enroll in any ACDV B5 class.  
Hours: 18 lecture  
CCS: Liberal Arts/Science  
Transferable: CSU and private colleges

ACDV B5A Tutor Training and Practicum Level 2  
.5 unit  
Prerequisite: Minimum grade of 'B' in subject to be tutored or approval of subject area instructor or evaluation of prerequisites by the Tutor Trainer and/or Tutor Coordinator.  
Recommended: Reading - 1 Level Prior to Transfer  
Description: Designed for returning tutors to build tutoring skills. Skills include essential human relations skills and methods of effective tutoring, placing skills into practice with tutees referred by the Tutor Coordinator. This course is required for Level 2 International Tutor Training Program Certification (ITTPC). Students may be referred by subject area instructor(s).  
Hours: 9 lecture  
CCS: Liberal Arts/Science  
Transferable: CSU and private colleges

ACDV B50 Advanced Reading and Critical Thinking  
3 units  
Prerequisites: Reading - one level prior to transfer or ACDV B62 with a grade of 'C' or better  
Recommended: Writing - one level prior to transfer or ENSL B51/ EMLS B61  
Description: Recommended for students who have not met the reading competency graduation requirement at entrance or for those who wish to improve their skills in academic reading. Emphasizes critical reading and thinking and reading flexibility with college-level material. Focuses on application, analysis, synthesis, and evaluation in both oral and written form. Successful completion of ACDV B50 meets graduation requirement for reading competency.  
Hours: 54 lecture  
CCS: Pre-collegiate basic skills  
Transferable: Not transferable. Not degree applicable

ACDV B55 First Year Student Success  
0.5-2 units  
Description: Introduces students to the college's academic, social, and physical environments and promotes personal and academic locus of control necessary for student success in college. Designed to increase students' probability for college success as students locate, navigate, and utilize the campus' academic and student services resources. The course covers note-taking, test-taking, textbook reading, effective communication, time-management, and library research and other skills necessary for college success.  
Hours: 9 lecture for each .5 unit (9-36)  
CCS: Credit Course  
Transferable: Not transferable. Not degree applicable

ACDV B61 Accelerated Reading  
4 units  
Prerequisites: Reading - two levels prior to transfer or ENSL B61/ EMLS B71  
Recommended: ACDV B201A, ACDV B201B, and writing three levels prior to transfer  
Description: This course is recommended for students who place at Reading Level 3 or 4 who need to improve academic vocabulary, reading comprehension, critical thinking, research skills, and reading flexibility with college level material. Students who successfully pass this course will have fulfilled the reading competency requirement for graduation.  
Note: Not open to students with credit in ACDV B62 or ENSL B51 or EMLS B61  
Hours: 72 lecture  
CCS: Credit Course  
Transferable: Not transferable. Not degree applicable

ACDV B62 College Textbook Reading Skills  
3 units  
Prerequisite: Reading - 2 Levels Prior to Transfer  
Recommended: Writing - 2 Levels Prior to Transfer  
Description: Recommended for students who need to improve vocabulary and reading comprehension and reading flexibility. Focuses on demonstration and application of reading strategies as they apply to textbook reading. Includes paragraph analysis, study strategies such as SQ3R and outlining, and vocabulary building techniques. Includes literature and library projects and activities. Provides practice in reading application and analysis level thinking skills.  
Note: Not open to students with credit in ACDV B61 or ENSL B51 or EMLS B61  
Hours: 54 lecture  
CCS: Pre-collegiate basic skills  
Transferable: Not transferable. Not degree applicable

ACDV B65 Developing College Writing Skills  
2 units  
Prerequisites: Writing - three levels prior to transfer  
Recommended: ACDV B201B and writing - two levels prior to transfer  
Description: Designed to prepare students for success in English Level 04 by developing basic multi-paragraph writing skills in response to expository passages. Emphasizes the writing process and the review of basic English writing conventions.  
Hours: 36 lecture  
CCS: Credit Course  
Transferable: Not transferable. Not degree applicable

ACDV B66 Student Success  
1-3 units  
Recommended: Concurrent enrollment in ACDV B280 or B281.  
Description: Covers the development of successful personal behaviors; interpersonal skills development, effective listening and note taking, time management, textbook reading, math computation, and test taking skills necessary for success in connected core courses.  
Hours: 18 lecture hours for each unit (18-54)  
CCS: Pre-collegiate basic skills  
Transferable: Not transferable. Not degree applicable

ACDV B70A Time Management Strategies for Academic Success  
0.5 unit
Description: This course includes hands-on instruction for developing effective strategies for both personal and academic time management as it relates to academic success in college. Students work on time management activities and assignments both independently and interactively in groups on guided, hands-on activities related to developing time management skills. There are additional outside of class computer lab hours required for students to practice working on a variety of time management strategies.

**ACDV B70C Textbook Reading Strategies for Academic Success**
0.5 unit

Description: This course includes hands-on learning for developing effective textbook reading strategies to improve academic success in college. Students work on textbook reading strategies both independently and interactively in groups on guided, hands-on activities related to developing textbook reading skills. There are additional outside of class computer lab hours required for students to practice using a variety of effective textbook reading strategies.

**ACDV B70D Test Taking Strategies for Academic Success**
0.5 unit

Description: This course includes hands-on learning for developing effective test taking strategies related to academic success in college. Students work on test taking strategies both independently and interactively in groups on guided, hands-on activities related to developing test taking skills. There are additional outside of class computer lab hours required for students to practice working on a variety of test taking strategies.

**ACDV B70E Memory Strategies for Academic Success**
0.5 unit

Description: This course includes hands-on learning for developing effective memory strategies related to academic success in college. Students work on memory techniques both independently and interactively in groups on guided, hands-on activities related to developing memory skills. There are additional outside of class computer lab hours required for students to practice working on a variety of memory strategies.

**ACDV B70F Vocabulary Improvement Strategies for Academic Success**

Description: This course includes hands-on learning for developing effective vocabulary strategy related to academic success in college. Students work on vocabulary improvement both independently and interactively in groups on guided, hands-on activities related to developing vocabulary improvement skills. There are additional outside of class computer lab hours required for students to practice working on a variety of vocabulary improvement strategies.
ACDV B190 Assistive Technology for Students with Disabilities
0.5 unit
Description: Provides individual computer access assessment. Based on the findings, students are trained on the appropriate access technologies (text-to-speech, voice recognition, reading and writing tools, etc.). Designed to teach the fundamental access technologies needed for the student to complete writing assignments, web search projects, and to be independent in other courses.
Hours: 9 lecture
CCS: Pre-collegiate basic skills
Transferable: Not transferable. Not degree applicable.

ACDV B195 Basic Computer Literacy
1-3 units
Recommended: Reading - two levels prior to transfer and Writing - two levels prior to transfer
Description: The student will learn how to identify the parts and the functions of personal computers. Students will be introduced to such varied topics as use of an internet browser, how to establish and maintain an email account, how to navigate such programs as basic word processing and function keys, how to use established databases and search engines to find information on the internet, and how to copy, save, print, and send documents from various sources.
Hours: 18-54 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ACDV B201A Reading for Academic Success
0.5-1 unit
Description: This course offers individually prescribed lessons in reading fluency and comprehension, vocabulary development, study skills, critical thinking, and writing with supervised practice in the computer lab on assigned tasks. Open entry/open exit. Students should report to SS 143 as soon as possible to take orientation and complete enrollment paperwork.
Hours: 27 laboratory hours for each .5 unit (27-54)
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ACDV B201B Writing for Academic Success
0.5-1 unit
Description: The course offers supervised, self-paced computer lab activities with individually prescribed lessons in English language development and writing skills. Open entry/open exit lab courses. Students should report to SS 143 as soon as possible to take orientation and complete enrollment forms. ACDV B201B is recommended as a supplement to all English and Academic Development classes.
Note: ACDV B201B is recommended as a supplement to all English and Academic Development classes.
Hours: 27 laboratory hours for each .5 unit (27-54)
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ACDV B201C Basic Math Skills for Academic Skills
0.5-1 unit
Description: This course offers supervised, self-paced computer lab activities with individually prescribed lessons to develop basic math skills. Open entry/open exit. Students should report to SS 143 as soon as possible to take an orientation and complete enrollment forms. ACDV B201C is recommended as a supplement to all basic math skills courses.
Hours: 27 laboratory hours for each .5 unit (27-54)
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ACDV B280 Supervised Tutoring
0 unit
Description: Provides tutoring in various academic subjects in a designated learning center to augment classroom instruction. Referral by subject-area instructor, counselor, or tutor trainer is suggested.
Note: Weekly hours are decided jointly by the instructor and student. Students cannot register by telephone or the web for this course; see instructor in SS 203 to complete enrollment. Open entry/open exit.
Hours: 1-99 laboratory
Repeat: Unlimited
CCS: Non-Enhanced Funding
Transferable: Not transferable. Not degree applicable.

ACDV B281A Supervised Tutoring-Computer: Reading
0 unit
Description: This course offers individually prescribed lessons in reading fluency and comprehension, vocabulary development, study skills, critical thinking, and writing with supervised practice in the computer lab on assigned tasks problems. Open entry/open exit. Students should report to SS 143 as soon as possible to take orientation and complete enrollment paperwork.
Note: Weekly hours are decided jointly by the instructor and students. Students cannot register by the web for this section; see instructor in SS 143 to complete enrollment.
Hours: 1-99 laboratory
Repeat: Unlimited
CCS: Non-Enhanced Funding
Transferable: Not transferable. Not degree applicable.

ACDV B281B Supervised Tutoring-Computer: Writing
0 unit
Description: This course offers supervised, self-paced computer lab activities with prescribed lessons in English language development and writing skills. Open entry/open exit lab courses. Students should report to SS 143 as soon as possible to take orientation and complete enrolment forms. ACDV B281B is recommended as a supplement to all English and Academic Development classes.
Note: Weekly hours are decided jointly by the instructor and student. Students cannot register by the web for this course; see instructor in SS 143 to complete enrollment.
Hours: 1-99 laboratory
Repeat: Unlimited
CCS: Non-Enhanced Funding
Transferable: Not transferable. Not degree applicable.

ACDV B281C Supervised Tutoring-Computer: Mathematics
0 unit
Description: This course offers supervised, self-paced computer lab activities with prescribed lessons to develop basic math skills. Open entry/open exit lab courses. Students should report to SS 143 as soon as possible to take orientation and complete enrolment forms. ACDV B281C is recommended as a supplement to all basic skills math courses.
Note: Weekly hours are decided jointly by the instructor and student. Students cannot register by the web for this course; see instructor in SS 143 to complete enrollment.
Hours: 1-99 laboratory
Administration of Justice Courses

ADMJ B40 Law and Democracy
3 units
Recommended: Reading - one level prior to transfer.
Description: An overview of practical aspects of civil, criminal, and constitutional law; development of skills in critical reading, writing, problem solving, and oral communication with an emphasis on preparation for success in legal education; preparation for civic engagement and community-based learning.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 4; CSU GE D.8; CSU GE D.10

ADMJ B60 Arrest and Control Techniques. PC 832
1 unit
Description: Introduces methods and regulations used by peace officers regarding the powers of arrest, and laws of search and seizure. Students will engage in weaponless self defense and physical arrest activities. Course is designed to meet the requirements of California Penal Code section 832 (PC 832), which establishes a minimum mandatory standard of training for peace officers in the State of California. Meets the Commission on Peace Officers Standards and Training (P.O.S.T.) requirements.
Hours: 9 lecture, 27 laboratory
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ADMJ B61 Firearms Training PC 832
0.5 unit
Prerequisites: ADMJ B60 with a grade of 'C' or better
Limitation on Enrollment: Student must be fingerprinted prior to taking the class.
Description: Provides students with the competencies required for certification by Peace Officer Standards and Training (P.O.S.T) for Penal Code section 832 Firearms. Students will engage in the use of firearms, which will include handgun familiarization; safety; care, cleaning and storage; firearms range qualifications.
Special Notice: Per Penal Code section 13511.5, students must obtain written clearance from the California Department of Justice verifying that they are not prohibited from possessing firearms.
Hours: 27 laboratory
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ADMJ B63 Power to Arrest (Security Guard Course)
0.2 unit
Description: Provides students with the knowledge and skills to pass the State of California mandated exam for a Security Guard Card and to function at the entry level of the security profession. Class meets the certification requirements for the Bureau of Security and Investigative Services from the California State and Consumer Services Agency.
Hours: 7 lecture, 1 laboratory
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

ADMJ B81 Special Topics for Security Guards
0.2 unit
Description: Provides the required training security guards must complete within six months of employment as a security guard. Also covers the annual review and practice of security guard skills. Course meets the training requirements as set forth by the California Department of Consumer Affairs, Bureau of Security and Investigative Services.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not transferable. Not degree applicable.

Agriculture Business Management Courses

AGBS B2 Agricultural Economics
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Provides an understanding of the business and economics of the agricultural industry; an introduction to the economic aspects of agriculture and their implications to the agricultural producer, consumer and the food system; management principles encountered in the day to day operation of an agricultural enterprise as they relate to the decision making process.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC and private colleges; CSU GE D.2; BC GE D.2

AGBS B3 Introduction to Agriculture Business
3 units
Description: Provides a basic understanding of the business and economics of the agricultural industry. Course covers the role of agriculture in the economic system. Basic economic principles are applied to agriculture production, pricing and marketing. Emphasis placed on effects of state and federal farm programs on production agriculture economic position.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC and private colleges

AGBS B6 Agriculture Sales and Communication
3 units
Recommended: Reading - one level prior to transfer.
Description: The study of principles and practices of the selling process: selling strategies and approaches, why and how people buy, prospecting, territory management, and customer service. Self-management, communication, and interpersonal skills necessary in developing managerial abilities, leadership qualities, and facilitating teamwork within the agribusiness sector will be explored. Students will gain experience through opportunities to develop formal sales presentations and job shadowing. The course content is organized to give students an in-depth understanding of the factors and influences that affect the agribusiness industry on a day-to-day basis.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

AGBS B48WE Occupational Work Experience Education
1-8 units
Prerequisites: Declared major or occupational goal and evaluation of student’s qualifications and objectives.
Description: College credit for agricultural business related learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student. Occupational work experience credit may accrue at the rate of 1 to 8 units per semester for a total of sixteen units, and students must work 75 paid hours or 60 non-paid hours per unit. Repetition allowed per Title 5 55253.

Hours: Non-paid 60 hours for each 1 unit (60 - 480). Paid 75 hours for each 1 unit (75 - 600).
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

Agriculture Courses

AGRI B1 Agriculture, Environment, and Society
3 units
Recommended: Reading - one level prior to transfer.
Description: Involves the sociology of agriculture presented through an examination of relationships between societies and their environments, economics, and agriculture. Emphasis on the analysis of agriculture’s use of technology and the corresponding impact on the environment, economy, and society. Satisfies the 0.5 unit educational planning requirement for graduation from Bakersfield College.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges; CSU GE D.7; BC GE D.2

AGRI B49 Agriculture Leadership Training
2 units
Description: Agriculture leadership training through the application of individual and group leadership techniques. Requires participation as: an Agriculture Ambassador team member in the promotion and understanding of California agriculture, participation in college recruitment activities (including giving recruitment presentations at off campus sites), hosting prospective student groups for on-campus visitations, and sponsoring recruitment activities for the local Agriculture industry. Field trips required.
Note: Elective credit only.
Hours: 18 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

American Sign Language Courses

ASL B1 American Sign Language 1
4 units
Recommended: Reading - one level prior to transfer; Writing - one level prior to transfer.
Description: Study of the fundamentals of American Sign Language. Introduces basic vocabulary and grammatical structure of ASL, conversational strategies, numbers, fingerspelling, and non-verbal aspects of American Sign Language. Provides an overview of Deaf history and Deaf cultural values. Outside assignments require practice and assessment with video programs. Field trips required.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 6.A; CSU GE C.2; BC GE C.2

ASL B2 American Sign Language 2
4 units
Prerequisites: ASL B1 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer; Writing - one level prior to transfer.
Description: Continued study of the fundamentals of American Sign Language. Emphasizes conversational strategies such as keeping others informed, minimizing interruptions, and turn-taking, as well as grammatical forms such as verb agreement, negation, and role-shifting. Further instruction in specialized fingerspelling and numerical proficiency. Exploration of Deaf culture, emphasizing cultural norms and notable Deaf persons. Outside assignments require practice and assessment with video programs. Field trips required.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

ASL B3 American Sign Language 3
4 units
Prerequisites: ASL B2 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer; Writing - one level prior to transfer.
Description: Study of advanced aspects of American Sign Language. Emphasizes advanced narrative fluency. Focus on temporal aspects, when clauses, classifiers, and mouth morphemes. Develops advanced narrative skills such as inflecting verbs, durative aspect, and transitions. Discussion of various aspects of American Deaf culture with a focus on literary tradition. Outside assignments require practice and assessment with video programs. Field trips required.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

ASL B4 American Sign Language 4
4 units
Prerequisites: ASL B3 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer; Writing - one level prior to transfer.
Description: Continued study of advanced aspects of American Sign Language. Emphasizes receptive and expressive narrative fluency and Deaf rhetorical approaches. Focuses on specific linguistic aspects of ASL such as classifier combinations, role-shifting, conditional, and expansion. Advanced practice with receptive and expressive fingerspelling. Also includes exploration of issues pertinent to Deaf culture. Outside assignments require practice and assessment with video programs. Field trips required.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 6.A; BC GE C.2

ASL B6 American Deaf Culture
3 units
Prerequisites: ASL B3 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer; Writing - one level prior to transfer.
Description: Introduction to the practical and philosophical components of American Deaf culture, such as types and causes of deafness and the Deaf community as defined according to language, values, culture, and attitudes. Included is a study of Deaf advocacy, services, education, and legal rights of Deaf people. Field trips required.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges
ASL B7 American Sign Language Literature
3 units
Prerequisites: ASL B3 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Exploration, interpretation, and analysis of storytelling, folklore, poetry, and plays of the American Deaf community. Study and performance of ASL poetry, hand-shape and ABC stories. Study of Deaf folklore and other forms of “oral” storytelling traditions. Criticism and analysis of Deaf plays in written English.
Hours: 54 lecture
CCS: Credit Course
Transferable: CU and private colleges; BC GE C.2

Animal Science Courses

ANSC B1 Introduction to Animal Science
3 units
Recommended: Reading - one level prior to transfer.
Description: Survey of the livestock industry, supply of animal products and their uses; special emphasis on the origin, characteristics, adaptation and contributions of farm animals to the global Ag industry; analysis of the economic trends and career opportunities in animal agriculture. Nutrition, digestive systems, breeds, selection, and reproduction are included in course. Field trips may be required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges; BC GE B.1

ANSC B2 Beef Production
3 units
Recommended: ANSC B1. Reading - one level prior to transfer.
Description: Defines and appraises all segments of the beef industry, focusing on production, reproduction, marketing, and processing. History and development of important breeds and their contribution to the U.S. beef industry will be emphasized. Selection, nutrition, health management, handling, and processing will be defined, analyzed, and applied.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

ANSC B3 Sheep Production
3 units
Description: Defines and appraises all segments of the sheep industry focusing on production, reproduction, marketing, and wool. History and development of important breeds and their contributions to the U.S. sheep industry will be emphasized. Selection, nutrition, health management, handling, and processing will be defined, analyzed, and applied.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ANSC B4 Dairy Production
3 units
Description: Defines and appraises all segments of the dairy industry focusing on production, reproduction, marketing and milk/dairy processing. History and development of important breeds and their contribution to the U.S. dairy industry will be emphasized. Selection, nutrition, health management, handling, and processing will be defined, analyzed and applied.
Hours: 36 lecture, 54 laboratory

ANSC B5 Swine Production
3 units
Description: Application of the principles of nutrition, physiology, herd selection, breeding, and marketing to swine production and management. Structure of the industry, enterprise establishment, systems of production, production practices and herd improvement programs will be discussed. Evaluation of production responses and economic returns will be defined, analyzed, and applied.
Hours: 36 lecture, 54 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

ANSC B6 Applied Animal Nutrition
4 units
Description: Covers fundamentals of feeding livestock, including feed composition, feed nutrients, and values, digestive systems of major livestock species and their utilization of feedstuffs, ration balancing, computer analysis of feed, and least cost formulation.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

ANSC B7 Animal Diseases
3 units
Description: Covers major and common diseases of farm livestock, focusing on the cause, symptoms, treatment and prevention of the specific diseases. Students will learn fundamentals of the immune system and use of vaccines and pharmaceuticals. Safe use, particularly in food animals is stressed.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

ANSC B10 Horse Production
3 units
Recommended: ANSC B1. Reading - one level prior to transfer.
Description: Survey of the equine industry, encompassing the evolution and role of the equine species throughout history, breed selection and development, nutrition, disease, preventative health, reproductive management, basic horsemanship, and stabling alternatives. Laboratory required. Field Trips may be required.
C-ID: AG-AS 116L
Hours: 36 lecture, 54 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

ANSC B11 Livestock Selection and Evaluation
3 units
Description: Detailed analysis of visual, analytical, and physical methods of appraising beef, sheep, swine and horses concerning functional and economic value; written and oral summaries of evaluation; specific reference made to performance data and factors determining carcass value. Laboratory required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ANSC B22 Animals and Society
3 units
Recommended: Reading - one level prior to transfer.
ANSC B48WE Occupational Work Experience

1-8 units
Prerequisites: Declared major or occupational goal and evaluation of student’s qualifications and objectives.
Description: College credit for animal science related learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student. Occupational work experience credit may accrue at the rate of 1 to 8 units per semester for a total of sixteen units, and students must work 75 paid hours or 60 non-paid hours per unit. Repetition allowed per Title 5 55253.
Hours: Non-paid 60 hours for each 1 unit (60 - 480). Paid 75 hours for each 1 unit (75 - 600).
CCS: Credit Course
Transferable: CSU and private colleges

ANSC B83 Introduction to Veterinary Technology

4 units
Description: Introductory course designed to orientate and instruct students in knowledge required for success in advanced veterinary technology courses. Topics include: anatomy and physiology of domestic animals (Integumentary, cardiovascular, respiratory, reproductive, gastrointestinal, and neurological systems), nutrition, pharmacology, basics of chemistry, biology, microbiology, (including cellular anatomy/physiology), genetics and heredity, and career opportunities. Medical terminology, regulations, office management and record keeping skills are also covered, as they pertain to working in a veterinary practice. Field trips may be required. Occupational Education. Not Transferable: Associate of Science Degree only.
Note: formerly ANSC B80 and ANSC B82.
Hours: 72 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

ANSC B84 Small Animal Diseases

1.5 units
Prerequisites: ANSC B83 with a grade of ‘C’ or better.
Description: Presents knowledge of diseases in small domestic animals, including prevention and treatment programs. Includes instruction in physical diagnosis and discussion of tests and procedures needed for proper diagnosis that the technician uses to assist veterinarian. Also covers animal husbandry procedures relating to disease prevention. Disease entities to be taught include: mechanical, genetic, infectious, nutritional, endocrine, and metabolic conditions.
Hours: 27 lecture
CCS: Credit course
Transferable: Associate Degree only Not transferable.

ANSC B85 Large Animal Diseases

1.5 units
Prerequisites: Either ANSC B83 or ANSC B80 with a grade of ‘C’ or better.
Description: Covers diseases in large animals, including diagnosis, prevention, and treatment programs. Includes instruction in physical diagnosis and discussion of tests and procedures needed for proper diagnosis. Instruction in animal nursing and husbandry procedures relating to disease prevention will also be included. Disease entities taught include infectious, nutritional, endocrine, mechanical and metabolic conditions.
Hours: 27 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ANSC B86 Pharmacology for Veterinary Technicians

1.5 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82 with grades of ‘C’ or better.
Description: Instruct students with required knowledge of pharmacological and biological agents used in veterinary medicine, including calculations, classifications, action, and methods of administration, dispensing and labeling. FDA, USDA, and DEA guidelines regarding restricted and scheduled drugs, as they relate to small animals and residue avoidance in food animals. Dosages, agents, and administration of pharmaceuticals are covered.
Hours: 27 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

ANSC B88 Surgery, Dental, and Anesthesiology for Veterinary Technicians

1.5 units
Prerequisites: Either ANSC B83 or ANSC B80 with a grade of ‘C’ or better.
Description: Instruction in the identification and care of instruments, the importance of asepsis and sterilization techniques, surgical pack preparation, anesthetic instrumentation, induction and monitoring, surgical nursing, assisting and instrumentation, and suturing techniques used in veterinary medicine.
Hours: 27 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ANSC B90 Emergency Medicine, Surgery/Nursing Procedures for Veterinary Technicians

2 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82 with grades of ‘C’ or better.
Description: Provides the student with knowledge required to recognized and provide emergency and critical care to veterinary patient, including establishing a patent airway, administering oxygen, controlling hemorrhage, performing CPR, and stabilizing patient to prevent and/or treat shock.
Hours: 36 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

ANSC B92 Clinical Pathology for Veterinary Technicians

2 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82 with grades of ‘C’ or better.
Description: Course covers biology, microbiology, parasitological cytology, urinalysis, hematology, serology, and pathology necessary for a career as a Registered Veterinary Technician. The student will be instructed in normal and abnormal test values. Course covers the understanding, reading and application of specific test results, as well as specimen handling and necropsy techniques.
ANTH B94 Caged Birds, Laboratory, and Exotic Animal Medicine

2 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82 with grades of ‘C’ or better.
Description: Covers anatomy, physiology, disease descriptions, and identification of caged birds, laboratory, and exotic animals. Instruction in restraint, physical examination, anesthesia, surgery, specimen collection, species identification, and the legal ramifications of owning exotic animals.
Hours: 36 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ANTH B96 Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology

1.5 units
Prerequisites: Either ANSC B83 or both ANSC B80 and ANSC B82 with grades of ‘C’ or better.
Description: Course is intended to give the student a sound knowledge of the techniques used in physical imaging in veterinary medicine. Includes history, statutes, and regulations, positioning techniques, developing, and film and screen characteristics. Instruction includes knowledge for preparing patient for imaging (radiograph and ultrasonography), positioning patient for imaging, safety during imaging, processing images/radiographic film, and maintenance of imaging equipment.
Hours: 27 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

Anthropology Courses

ANTH B1 Physical Anthropology

3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Study of human biology through time. Examines the biological development of the hominin lineage with consideration of cultural developments. Topics include biology and genetics, evolutionary processes and speciation, nonhuman primates, examination of the hominin lineage through fossils and molecular data, technological developments, and human diversity.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: ANTH 110
Transferable: UC, CSU and private colleges; IGETC 5.B; CSU GE B.2; BC GE D.1

ANTH B2 Introduction to Cultural Anthropology

3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Scientific study of contemporary cultures and their lifeways. Focuses on behavioral patterns, learning, diversity, and culture as an adaptive mechanism. Emphasis is on examining the constituents of cultural systems holistically, and comparatively analyzing world cultures. Examples from cultures worldwide are presented in various formats.

Architecture Courses

ARCH B1 Intro to Architecture and Environmental Design

1.5 units
Description: Familiarization with the professional fields of architecture, landscape architecture, structural engineering construction and city/regional planning. Introduction to schools of architecture programs as they relate to individual aptitudes and the design process. Guest speakers.
Note: Satisfies 0.5 unit counseling requirement for graduation from Bakersfield College.
Hours: 27 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

ARCH B6 Materials of Construction

3 units
Description: Use of application of construction processes and materials. Field trips required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges
ARCH B11 Design and Perspective Drawing
4 units
Description: Basic techniques used in graphic communications for the environmental design fields including orthographic projection, pictorials, perspectives, shades and shadows. Exercises to develop basic skills and speed in the representation of ideas.
Hours: 36 lecture, 108 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ARCH B12 Design, Drawing and Color
4 units
Prerequisites: ARCH 11 with a grade of ‘C’ or better.
Description: Drawing as a communication tool in the environmental design fields with further development of freehand and digital drawing with the addition of color application. Demonstrates the link between graphics, design process and communications. Field trips may be required.
Hours: 36 lecture, 108 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ARCH B16 Digital Tools for Graphics Communication
3 units
Description: An introduction to the use of digital tools in architectural design and visual communication in the areas of 3D modeling, image editing, 2D graphics and page layout.
Hours: 27 lecture, 81 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

ARCH B21 Architectural Design Fundamentals I
4 units
Prerequisites: ARCH B1, B11, B12 with grades of ‘C’ or better.
Description: Theories, principles, methods and means pertaining to the creation of two-and three-dimensional visual organizations to communicate intended concepts and meanings. Field trips required.
Materials Fee: $15.00
Hours: 36 lecture, 108 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ARCH B22 Architectural Design Fundamentals II
4 units
Prerequisites: ARCH B21 with a grade of ‘C’ or better.
Description: Continuation of the content and issues introduced in ARCH B21 plus the theories, principles, methods and means pertaining to the creation of architectural forms, space and organizations and incorporation of function and light as issues that shape the built environment and support the communication of intended concepts and meanings. Field trips required.
Materials Fee: $15.00
Hours: 36 lecture, 108 laboratory
CCS: Occupational Education
Transferable: UC, CSU and private colleges

ARCH B30 Residential Building Information Modeling
4 units
Prerequisites: ARCH B6
Description: Introduction to the application of computers in architecture with the use of Building Information Modeling (BIM), including operating systems, applications and graphic systems as they relate to construction documents and design technology. Residential wood construction methods and processes including construction documents. Not open to students who have successfully completed ARCH B31 and/or ARCH B32.
Materials Fee: $15.00
Hours: 36 lecture, 108 laboratory
CCS: Occupational Education
Transferable: UC and CSU

ARCH B33 Architectural Computer Practice
3 units
Prerequisites: ARCH B30 with a grade of ‘C’ or better.
Description: This course uses computer applications as a communication instrument in the design development and construction document phases of a light commercial project. Theory and application of laws and codes as they affect such buildings are studied. Field trips required.
Materials Fee: $15.00
Hours: 27 lecture, 81 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

ARCH B55 Residential Building Codes
3 units
Recommended: Reading - one level prior to transfer.
Description: Study of the uniform building codes, local codes and related ordinances. Fundamental structural concepts involved in code work, code interpretation and enforcement. Field trips required.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

ARCH B56 Commercial Codes
3 units
Recommended: Reading - one level prior to transfer
Description: Study of the uniform building, plumbing, mechanical and electrical codes as they relate to Commercial Construction. A companion course to ARCH B55 offering a greater in-depth study of the various codes which make up the Code of Building Regulations. Field trips may be required.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

Art Courses

ART B1 Art Appreciation
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Lecture course which presents a broad introduction to the visual arts from prehistory to the present. The role of art in the creation of world culture, as well as art processes and visual vocabulary are examined. Intended for non-Art majors.
Hours: 54 lecture
CCS: Credit Course
C-ID: ARTH 100
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B2 Drawing I
3 units
Recommended: Reading - one level prior to transfer.
Description: Course introduces the fundamentals of representational drawing. The visual vocabulary and design
principles and elements are covered, as related to drawing. Media may include pencil, ink, charcoal, conte, pastels, and watercolor.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**C-ID:** ARTS 110

**Transferable:** UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

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**ART B3 Drawing II**

**3 units**

**Prerequisites:** ART B2 or equivalent with a grade of ‘C’ or better.

**Description:** A continuation of ART B2. Course builds on the conceptual and technical aspects of drawing; as well as an increased exploration of media and techniques. An increased use of color is required.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**C-ID:** ARTS 100

**Transferable:** UC, CSU and private colleges

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**ART B4 Two-Dimensional Design**

**3 units**

**Recommended:** Reading - one level prior to transfer.

**Description:** Course examines the principles and elements of two-dimensional design. Content includes: elements and principles of design, color theory, art terminology and analysis of form and content.

**Note:** Not open to students who have successfully completed ART B3A, ART B3B, or ART B3AB.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**C-ID:** ARTS 101

**Transferable:** UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

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**ART B5 Three Dimensional Design**

**3 units**

**Recommended:** Reading - one level prior to transfer.

**Description:** An introductory level ceramics course in which students design and construct hand-built and wheel-thrown ceramic objects. Students learn form and surface enrichment, use glazes, and load kilns. Serves students interested in developing fundamental ceramic skills.

**Materials Fee:** $15.00 for finished ceramic artwork, glazes, and some clay.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**C-ID:** ARTS 102

**Transferable:** UC, CSU and private colleges; BC GE C.1

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**ART B6 Acrylic Painting I**

**3 units**

**Prerequisites:** ART B2 with a grade of ‘C’ or better or equivalent.

**Recommended:** Reading - one level prior to transfer.

**Description:** An introduction to principles, elements, and practices of painting. Focus on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter.

**Note:** Not open to students who have successfully completed ART B4a, B4b or ART B4ab.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges

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**ART B7 Acrylic Painting II**

**3 units**

**Prerequisites:** ART B6 with a grade of ‘C’ or better.

**Description:** A continuation of ART B6. Students review and refine techniques using acrylic paint as an expressive medium. Emphasis is placed upon personal explorations.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**C-ID:** ARTS 200

**Transferable:** UC, CSU and private colleges

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**ART B8 Figure Drawing I**

**3 units**

**Prerequisites:** ART B2 with a grade of ‘C’ or better or equivalent.

**Recommended:** Reading - one level prior to transfer.

**Description:** An introductory course in drawing from live models. Emphasis is placed upon an understanding of the structure, anatomy, and expression of the human figure. Media may include pencil, ink, charcoal, conte, pastels, and watercolor.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**C-ID:** ARTS 201

**Transferable:** UC, CSU and private colleges

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**ART B9 Figure Drawing II**

**3 units**

**Prerequisites:** ART B2 or equivalent with a grade of ‘C’ or better.

**Recommended:** Reading - one level prior to transfer.

**Description:** Drawing course, using live models, is a review and refinement of drawing techniques and exercises that are introduced in ART B8. Emphasis is placed upon a more personal expression of the human figure. Media may include pencil, ink, charcoal, conte, pastels, and watercolor.

**Materials Fee:** $15.00 for finished ceramic artwork, glazes, and some clay.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**C-ID:** ARTS 202

**Transferable:** UC, CSU and private colleges

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**ART B10 Ceramics I**

**3 units**

**Recommended:** Reading - one level prior to transfer.

**Description:** An introductory level ceramics course in which students design and construct hand-built and wheel-thrown ceramic objects. Students learn form and surface enrichment, use glazes, and load kilns. Serves students interested in developing fundamental ceramic skills.

**Materials Fee:** $15.00 for finished ceramic artwork, glazes, and some clay.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**C-ID:** ARTS 203

**Transferable:** UC, CSU and private colleges; BC GE C.1

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**ART B11 Ceramics II**

**3 units**

**Prerequisites:** ART B10 or equivalent with a grade of ‘C’ or better.

**Recommended:** Reading - one level prior to transfer.

**Description:** A continuation of ART B10. Expanding the skills in forming techniques, wheel throwing and slab construction; various glaze applications. Exploration of building and surface treatments including slip casting, site specific and installation work. Raku and other firing techniques are covered.

**Materials Fee:** $15.00 covers cost of glazes and some clay, and students will receive finished ceramic artwork.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**C-ID:** ARTS 204

**Transferable:** UC, CSU and private colleges

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**ART B12 Ceramics III**

**3 units**

**Prerequisites:** ART B11 or equivalent with a grade of ‘C’ or better.
### ART B13 Sculpture I

**3 units**

**Prerequisites:** ART B5 with a grade of 'C' or better

**Description:** Introduces sculptural concepts and investigates their translation into three-dimensional forms. Problems involving various technical means are explored. Students investigate the role of materials and techniques in the creative process.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; CSU GE C.1

### ART B14 Sculpture II

**3 units**

**Prerequisites:** ART B13 with a grade of 'C' or better

**Description:** Advanced study in sculptural concepts and three-dimensional forms. Explores the expressive meaning of form and the expressive potential of materials.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; CSU GE C.1

### ART B16 Digital Photography

**3 units**

**Recommended:** Reading - one level prior to transfer.

**Description:** Introduction to the possibilities of digital photography. Topics covered include digital cameras, scanning, printing, color management and file management. Students create original images for use in class and explore photo manipulation with raster software. A suitable digital camera is required.

**Materials Fee:** $15.00 covers cost of ink and paper for printing student projects. Students receive a portfolio of prints.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; BC GE C.1

### ART B17 Black and White Photography

**3 units**

**Recommended:** Reading - one level prior to transfer.

**Description:** In this black and white photography course, students study the basic principles of cameras, optics, light, film development, exposure, exposure meters, and enlarging. Photographic quality, exploration of the photographer's environment, and personal expression is emphasized. A suitable 35mm film camera is required.

**Materials Fee:** $25.00

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; BC GE C.1

### ART B20 Digital Art - Vector

**3 units**

**Recommended:** Reading - one level prior to transfer.

**Description:** A foundational course introducing vector art and the use of digital technology as a design tool. Through a series of projects, students create original artwork and explore elements and principles of design.

**Materials Fee:** $15.00 for toner and paper. Students receive a portfolio of printed work.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; BC GE C.1

### ART B24 Digital Art - Raster

**3 units**

**Recommended:** Reading - one level prior to transfer.

**Description:** Introduces raster art as used in commercial digital media. Through a series of projects, students create original artwork and refine their design skills. Image creation, scanning, editing, composition, re-touching, and problem solving are explored. Elements, principles and language of design are reviewed.

**Materials Fee:** $15.00 for toner and paper. Students receive a portfolio of printed work.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; BC GE C.1

### ART B25 Typography

**3 units**

**Prerequisites:** ART B10 and ART B24 with grades of 'C' or better.

**Description:** This course introduces effective typographic usage in visual media. Students explore the evolution of type from ancient to contemporary, and create original typographic design solutions. Projects feature investigation of structure, format, legibility, and expression.

**Material Fee:** $15.00 for toner and paper. Students receive a portfolio of printed work.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**Transferable:** CSU and private colleges

### ART B26 Multimedia

**3 units**

**Prerequisites:** ART B16 or ART B24 and ART B20 with a grade of 'C' or better.

**Description:** This course introduces students to multiple digital mediums used for creating multimedia productions. This project based course teaches students to work with production gear such as tripods, cameras, and storage media. Students will learn best practices for digital workflows and the management of a variety of digital assets.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Credit Course

**Transferable:** CU, CSU and private colleges

### ART B29 Special Studies in Art

**1-3 units**

**Prerequisites:** Limitation on Enrollment - student must have successfully completed a sequence of courses within an art discipline or exhibit skills equivalent to student learning outcomes for a specific discipline in art as determined by the portfolio review by the professor.

**Description:** Independent study course intended for students pursuing deep exploration into a specific body of work. Content and unit credit are determined by instructor and student in consultation. Enrollment by permission of instructor only.

**Hours:** 54 laboratory hours for each unit (54-162)

**CCS:** Credit Course

**Transferable:** CSU and private colleges
ART B35 Survey of Western Art I
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: This course is a historical survey of Western architecture and visual arts beginning in the Paleolithic age (30,000 BC) and continuing through Proto-Renaissance Europe (1400 CE).
Hours: 54 lecture
CCS: Credit Course
C-ID: ARTH 110
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B36 Survey of Western Art II
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: This lecture course is a historical survey of Western architecture and visual arts from 1400 CE to the present day.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B37 Survey of Art - Latin America
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Historical survey of the arts in Latin America. Focuses on the Spanish-speaking regions of the Americas, as well as Cuba and the Dominican Republic. Students examine artistic contributions by Latin American artists from pre-history through colonial and modern art forms.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

ART B40 Digital Illustration
3 units
Prerequisites: ART B25 with a grade of ‘C’ or better.
Description: Course introduces illustration for editorial, technical, scientific, and informational publication. Emphasis is placed on problem solving and the importance of concept development. Typography is considered as an integral element to illustration projects.
Materials Fee: $15.00 for toner and paper. Students receive a portfolio of printed work.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: CU and private colleges

ART B41 Advertising Design
3 units
Prerequisites: ART B25 with a grade of ‘C’ or better.
Description: Course focuses on the design of advertising. Through concept development, type and images, students create original advertising solutions. A broad study of advertising media will be explored.
Materials Fee: $15.00 for toner and paper. Students will receive a portfolio of printed work.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: CU and private colleges

ART B42 Graphic Design
3 units
Prerequisites: ART B40 and ART B41 with grades of ‘C’ or better.
Description: This course focuses on the design of visual communication. Through concept development, type, and images, students create original design solutions. Corporate identity and branding development is introduced.
Materials Fee: $15.00
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: CU and private colleges

ART B43 Video Production
3 units
Prerequisite: ART B26 with a grade of ‘C’ or better.
Description: This course will introduce students to the fundamental elements and concepts of non-linear video editing. Through this project based learning course students will learn the foundations of editing. Material covered will include shooting digital video, asset acquisition, editing, rendering, and uploading media to online platforms such as YouTube and Vimeo.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

ART B44 Motion Graphics
3 units
Prerequisites: ART B26 with a grade of ‘C’ or better.
Description: This course will cover all of the foundational elements of motion graphics. Through a series of short form productions, students will learn how to set up projects, how to prepare assets for motion, how to key frame those assets, and how to render a final composition. Students will learn about the connection between motion and music with a culminating short film exploring this connection.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

ART B45 Animation
3 units
Prerequisites: ART B43 and ART B44 with a grade of ‘C’ or better.
Description: In this project-based course, students will take a hands on approach to learning the art of animation. Through pre-production, production, and post production, students will create an series of animated films.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

ART B46 Advanced Photography I
3 units
Prerequisites: ART B16 or ART B17 with a grade of ‘C’ or better.
Description: Course focus is on review and refinement of photography skills, with an emphasis on personal expression. A suitable SLR camera is required.
Materials Fee: $15.00
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.
ART B47 Advanced Photography II
3 units
Prerequisites: ART B46 or equivalent with a grade of ‘C’ or better.
Description: Course is a study of photography in an area of specialized and personal interest. Advanced work is done in camera technique, printing practices and studio lighting. Students create technically proficient work of an expressive and original nature. A suitable SLR camera is required.
Materials Fee: $15.00
Hours: 27 lecture, 81 laboratory
CSC: Credit Course
Transferable: Associate Degree only. Not transferable.

ART B48 Advanced Photography III - Independent Study
1-3 units
Prerequisites: ART B47 or equivalent with a grade of ‘C’ or better.
Description: Strengthening of graphic visualization and technical skills through challenging individual assignments, in preparation for professional experience. A suitable manually adjustable camera is required. Content and unit credit are determined by the instructor and student in consultation. Must be taken for three units to count for the photography certificate. Enrollment by permission of instructor only.
Materials Fee: $15.00
Hours: 54 laboratory hours for each unit (54-162)
CSC: Credit Course
Transferable: CSU and private colleges

Astronomy Courses

ASTR B1 Physics of the Cosmos
3 units
Prerequisites: Reading - one level prior to transfer.
Recommended: Writing - one level prior to transfer. Mathematics - two levels prior to transfer.
Description: Introductory course emphasizing the application of physics to understand the physical processes on the Earth and beyond the Earth and how we know those processes are occurring while still being bound to the Earth (or our solar system). The process and philosophy of science are examined from the astronomical perspective. Among topics included: the motions, properties, and evolution of the Sun, planets (including exoplanets), stars, galaxies, and the universe and how we know about them; the analysis of electromagnetic radiation; atomic structure; astronomical instruments; brief history of astronomy; Newton’s law of gravity; general relativity.
Hours: 54 lecture
CSC: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

ASTR B2 Life in the Universe
3 units
Prerequisites: Reading - one level prior to transfer.
Recommended: Writing - one level prior to transfer. Mathematics - two levels prior to transfer.
Description: Introductory course on the scientific search for life in the universe. The process and philosophy of science are examined from the astronomical and biological perspectives. Among topics included: the definition and nature of life, the formation and development of the Earth and life on the Earth, other places in our solar system that might have habitats for life, habitable zones around other stars, how we detect extrasolar planets, how we could detect biological activity on extrasolar planets, the search for extraterrestrial intelligence, interstellar travel, and implications of making contact.
Hours: 54 lecture
CSC: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

ASTR B3 Solar System
3 units
Prerequisites: Reading - one level prior to transfer.
Recommended: Writing - one level prior to transfer. Mathematics - two levels prior to transfer.
Description: Introductory course on the Sun, Earth, other planets, moons, rings, comets, asteroids, and extra-solar planets, formation and development of the Earth and solar system, and possibility of life on other worlds.
Hours: 54 lecture
CSC: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

Automotive Technology Courses

AUTO B1AB Introduction to Automotive Technology
4 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to the operation and maintenance of the modern automobile with emphasis on the theory of the basic operating systems. These systems include a) the engine and its systems (lubrication, cooling, fuel emissions controls), b) electrical systems (battery, starting, charging, lighting, and ignition), c) the chassis (suspension, wheel alignment, steering, brakes, tires, and wheels), and d) the drive line (clutch, standard, and automatic transmissions, universal joints and differential). Not open to students with credit in AUTO B1, B1A, or B1B.
Hours: 54 lecture, 54 laboratory
CSC: Occupational Education
Transferable: CSU and private colleges, elective credit only

AUTO B2A Engine Repair and Machining
9 units
Recommended: AUTO B1AB or evaluation of previous experience by instructor.
Description: This course covers the acquisition of practical skills required for accurate internal combustion engine diagnosis, repair and all phases of engine rebuilding machine work. Demonstrated lecture, simulated problem diagnosis and practical application on live vehicles will be used. Individual instruction on engine rebuilding machinery & tools is an integral part of this course. Engine theory, design, diagnosis, repair, practical and theoretical high performance modifications are all part of this course. Preparation for the A1 and A8 ASE exams will be covered. Theory of internal combustion, piston-type engine design and maintenance. Practice in engine overhaul procedures and mechanical problems diagnosis. This course is similar to AUTO B75A but includes more lab hours. The extended lab time offers a greater degree of practical experience.
Materials Fee: $15.00
Hours: 108 lecture, 162 laboratory
CSC: Occupational Education
Transferable: CSU and private colleges, elective credit only
AUTO B2B Advanced Engine Repair and Machining
9 units
Prerequisites: AUTO B2A with a grade of ‘C’ or better.
Description: This course covers the acquisition of advanced skills required for accurate internal combustion engine diagnosis, repair and all phases of engine rebuilding machine work. Demonstrated lecture, simulated problem diagnosis and practical application on “live” vehicles will be used. Individual instruction on advanced engine rebuilding machinery & tools is an integral part of this course. Advanced engine theory, design, diagnosis, repair, practical and theoretical high performance modifications are all part of this course. Preparation for the A1 and A8 ASE exams will be covered. Theory of internal combustion, piston-type engine design and maintenance. Practice in engine overhaul procedures and mechanical problems diagnosis. This course is similar to AUTO B75B but includes more lab hours. The extended lab time offers a greater degree of practical experience
Material Fee: $15.00 for Hazmat removal, solvents and cleaners.
Hours: 108 lecture, 162 laboratory
CCS: Credit Course
Transferable: CSU and private colleges, elective credit only

AUTO B3 Fundamentals of Automotive Management and Services
4 units
Recommended: AUTO B1AB with a grade of ‘C’ or better. Reading - one level prior to transfer.
Description: The course covers critical knowledge and skills necessary to prepare traditional and non-traditional students for employment in four positions within the service management operations of automotive dealerships/businesses and shops.
The positions are: 1) Service Writer/Adviser, 2) Parts-Sales and Service (Parts Counter Person), 3) Warranty Specialist and 4) DMV Specialist.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
Transferable: Associate degree only. Not transferable.

AUTO B14 Auto Tune-Up: Electrical/Ignition/Accessories
11 units
Recommended: AUTO B1AB with a grade of ‘C’ or better, or one year of automotive repair work experience. Reading - one level prior to transfer
Description: Prepares for ASE A6, A8 exams. Fundamentals of automotive electrical/electronic component repair. Includes electrical theory, diagnosis and repair of battery starting, charging and ignition systems including computer controlled systems. Laboratory emphasis on computerized diagnosis of the modern automobile.
Note: Elective credit only.
Hours: 162 lecture, 108 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges, elective credit only

AUTO B15 Auto Tune-Up: Fuel Systems and Emissions Controls
11 units
Recommended: AUTO B1AB with a grade of ‘C’ or evaluation by instructor of previous work experience. Reading - one level prior to transfer.
Description: Theory, operation, and servicing of automotive fuel systems, emission systems and advanced engine performance. Prepares for the ASE A8 exam.
Hours: 162 lecture, 108 laboratory

AUTO B56A Diesel Engines and Systems Basics
2 units
Recommended: Reading - one level prior to transfer
Description: Prepares for the ASE A7 and T7 exams. Safety, principles and theory of automotive air conditioning systems, laboratory practice in the service and repair of automotive heating, ventilation and air conditioning components.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

AUTO B56B Diesel Engines and Systems Basics
2 units
Recommended: Reading - one level prior to transfer
Description: Prepares for the ASE A7 and T7 exams. Safety, principles and theory of automotive air conditioning systems, laboratory practice in the service and repair of automotive heating, ventilation and air conditioning components.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

AUTO B59 Automotive Air Conditioning
4 units
Recommended: Reading – one level prior to transfer
Description: Prepares for the ASE A7 and T7 exams. Safety, principles and theory of automotive air conditioning systems, laboratory practice in the service and repair of automotive heating, ventilation and air conditioning components.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

AUTO B61 Basic and Enhanced Area Clean Air Car Course
4 units
Recommended: Reading - one level prior to transfer
Description: Prepares for the equivalent courses AUTO B65a and/or AUTO B65b.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

AUTO B64 Automotive Electricity and Electronics
4 units
Recommended: Reading - one level prior to transfer
Description: Prepares for the ASE A6 exam.
Hours: 54 lecture, 54 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.
AUTO B75A Introduction to Engine Overhaul
3 units
Recommended: AUTO B1AB
Description: This course covers the acquisition of basic, practical skills required for accurate internal combustion engine diagnosis, repair and all phases of engine rebuilding machine work. Demonstrated lecture, simulated problem diagnosis and practical application on live vehicles will be used. Individual instruction on engine rebuilding machinery & tools is an integral part of this course. Preparation for the A1 and A8 ASE exams will be covered. Theory of internal combustion, piston-type engine design and maintenance. Practice in engine overhaul procedures and mechanical problems diagnosis.
Materials Fee: $15.00
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

AUTO B75B Engine Repair Techniques
3 units
Prerequisites: AUTO B75A with a grade of ‘C’ or higher.
Description: This course covers the acquisition of advanced skills required for accurate internal combustion engine diagnosis, repair and all phases of engine rebuilding machine work. Demonstrated lecture, simulated problem diagnosis and practical application on live vehicles will be used. Preparation for the A1 and A8 ASE exams will be covered. Theory of internal combustion, piston-type engine design and maintenance. Practice in engine overhaul procedures and mechanical problems diagnosis.
Materials Fee: $15.00
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

AUTO B75C Advanced Engine Overhaul
3 units
Prerequisites: AUTO B75B with a grade of ‘C’ or better.
Description: Application of engine overhaul theory and procedures, including component inspection and tolerances, is covered in this class. Advanced engine theory, design, diagnosis, repair, practical and theoretical high performance modifications are all part of this course. This class also provides additional lab hours during which the students will complete specific lab tasks associated with this class.
Materials Fee: $15.00
Hours: 18 lecture, 108 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

AUTO B75D Advanced Engine Machining
3 units
Prerequisites: AUTO B75C with a grade of ‘C’ or better.
Description: Application of engine overhaul theory and procedures, including reassembly and initial startup procedures, is covered in this class. Individual instruction on advanced engine rebuilding machinery & tools is an integral part of this course. Advanced engine theory, design, diagnosis, repair, practical and theoretical high performance modifications are all part of this course. This class also provides additional lab hours during which the students will complete specific lab tasks associated with this class.
Materials Fee: $15.00
Hours: 18 lecture, 108 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

AUTO B106 Auto Brakes/Suspension/Alignment
9 units
Prerequisites: AUTO B1AB or AUTO B14 or AUTO B15 or AUTO B64, with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer
Description: A comprehensive course in automotive and light truck brakes, alignment, suspension, and steering systems. Designed to give students the skills and knowledge to diagnose and repair these systems to industry standards.
Hours: 108 lecture, 162 laboratory
CCS: Credit Status
Transferable: Associate Degree only. Not transferable.

AUTO B112 Auto Transmission/Gear Boxes
9 units
Prerequisites: AUTO B1AB, or AUTO B64, or AUTO B14, or AUTO B15, with grades of ‘C’ or better.
Recommended: Reading - one level prior to transfer
Description: Automotive transmissions and transaxles, computer controls, 2, 3, and 4 speed transmissions, override, and all related components. Also covers standard transmissions and transaxles, clutches, “U” joints, differentials, and all related components. Successful completion should enable student to pass the National Institute of Service Excellence test.
Note: Not open to students who have received a satisfactory grade in both AUTO B12a and AUTO B112b.
Hours: 108 lecture, 162 laboratory
CCS: Credit Status
Transferable: Associate Degree only. Not transferable.

Biology Courses

BIOL B3A General Biology I
5 units
Prerequisites: Reading - one level prior to transfer. Mathematics - one level prior to transfer
Description: This course is intended for biology majors. It is considered a survey course, as it covers basic biology and the diversity of unicellular and multicellular organisms. This course also emphasizes general biological principles, classification, structure, function and evolutionary adaptations of organisms (including plants, fungi, animals, and unicellular organisms) to their environments.
Hours: 54 lecture, 108 laboratory
CCS: Credit Course
C-ID: BIOL B13SS
Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; CSU GE B.3; BC GE B.1

BIOL B3B General Biology II
5 units
Prerequisites: CHEM B1A with a grade of ‘C’ or better.
Description: Principles of cell biology, molecular biology, metabolism, biochemistry, molecular genetics, and physiology. Field trips required.
Hours: 54 lecture, 108 laboratory
CCS: Credit Course
C-ID: BIOL 13SS
Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; CSU GE B.3; BC GE Area B.1

BIOL B11 Concepts of Biology
4 units
Prerequisites: Reading - one level prior to transfer.
Description: A non-majors introductory course that applies biological concepts to issues of everyday life. Concepts considered include scientific method; ecosystems and energy flow; organization, structure, function, behavior and evolution of organisms; inheritance; disease; ethics. Field trips may be required.

Hours: 54 lecture, 54 laboratory

CCS: Credit Course

Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; CSU GE B.3; BC GE B.1

**BIOL B16 General Microbiology**

5 units

Prerequisites: Reading - one level prior to transfer and BIOL B3A or BIOL B3B or BIOL B20 or BIOL B32 or BIOL B33 AND CHEM B1A or CHEM B11 or CHEM B18 with grades of 'C' or better.

Description: Introduction to the study of microorganisms including: survey of microorganisms, history of microbiology, microbial control through physical and chemical agents, bacterial genetics and biogenetic engineering, bacterial metabolism, bacterial, fungal, protozoal, helminth and viral diseases by transmission. In addition, immunology, public health, epidemiology, nosocomial infections, and microbial applications to food, water and sewage treatment are discussed. Field trips required.

Hours: 54 lecture, 108 laboratory

CCS: Credit Course

Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; CSU GE B.3; BC GE B.1

**BIOL B18 Essentials of Human Anatomy and Physiology**

4 units

Prerequisites: Reading - one level prior to transfer.

Description: An integrated life science course specifically targeted for students in allied health programs. Topics include microscopic and gross anatomy as well as physiology of all human organ systems; skeletal, muscular, cardiovascular, lymphatic/immune, respiratory, digestive, excretory, nervous, endocrine, reproductive and integumentary. Additional topics will address cell structure and function, human development and human heredity. Additional topics will address cell structure and function, human development and human heredity.

Hours: 54 lecture, 54 laboratory

CCS: Credit Course

Transferable: CSU and private colleges; CSU GE B.2; CSU GE B.3; BC GE B.1

**BIOL B21 Special Projects in Biology**

0.5-2 units

Prerequisites: Reading - one level prior to transfer. Any college biology course with a grade of 'C' or better.

Description: Individually directed work in biology laboratory. Students will learn biological preparation, and/or development of teaching materials while assisting in a biology laboratory.

Hours: 27 laboratory hours for each .5 unit (27-108)

CCS: Credit Course

Transferable: CSU and private colleges

**BIOL B32 Human Anatomy and Physiology I**

4 units

Prerequisites: Reading - one level prior to transfer.

Description: This is the first part of a two-semester integrated anatomy and physiology sequence that covers the structure, function, integration and homeostasis of the human body at the cellular, tissue, organ, organ system and organism level, including the integumentary, skeletal, muscular, nervous, sensory, cardiovascular, lymphatic, immune, respiratory, urinary, digestive, endocrine, and reproductive systems. This series meets the diverse needs of students seeking careers in such allied health fields as nursing, pharmacy, and physician's assistant. It is strongly recommended that students complete the entire Anatomy and Physiology sequence at the same institution as the material may not be covered in the same semester order at different schools. Therefore students taking one semester at one school may not be given credit for the same semester at a different school.

Note: Completion of BIOL B32 and B33 is equivalent to C-ID BIOL 115S, where credit is given for both Human Anatomy (C-ID BIOL 110) and Human Physiology (C-ID BIOL 112) by completing a two-semester blended course. BIOL B32 or B33 alone do not give credit for C-ID BIOL 110 (Anatomy) or C-ID BIOL 112 (Physiology) but only 4 units for a GE lab science.

Hours: 72 lecture

**Business Administration Courses**

**BSAD B1 Financial Accounting**

4 units

Prerequisites: Mathematics - one level prior to transfer; or MATH BD/B70 with a grade of 'C' or better. Reading - one level prior to transfer or ACDV B50 with a grade of ‘C’ or better.

Description: This is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics.

Hours: 72 lecture
BSAD B2 Managerial Accounting
3 units
Prerequisites: BSAD B1 with a grade of ‘C’ or better.
Description: This is the study of how managers use accounting information in decision-making, planning, directing operations and controlling. Focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Includes issues relating to cost systems, cost control, profit planning and performance analysis in manufacturing and service environments.
Hours: 54 lecture
C-ID: ACCT 120
Transferable: UC, CSU and private colleges

BSAD B5 Human Relations and People Skills
3 units
Recommended: Reading - one level prior to transfer. Writing - two levels prior to transfer.
Description: A behavior approach to the business environment including self-understanding, motivation techniques as related to the workplace and issues affecting morale, discrimination and developing leadership techniques for success. Provides insight on the effects of drugs and alcoholism on the individual and work group. Emphasizes career selection and the important facets of communication and skill building.
Hours: 54 lecture
C-ID: BUS 110
Transferable: UC, CSU and private colleges

BSAD B9 Fundamentals of Marketing
3 units
Recommended: Reading - one level prior to transfer
Description: Survey of marketing, including consumer behavior, company and environmental analysis, market segmentation, product development, pricing, promotion, and distribution.
Note: Elective credit only.
Hours: 54 lecture
C-ID: BUS 125
Transferable: UC, CSU and private colleges

BSAD B18 Business Law
3 units
Recommended: Reading - one level prior to transfer.
Description: Fundamental legal principles pertaining to business transactions. Introduction to the legal process. Topics include sources of law and ethics, contracts, torts, agency, criminal law, business organizations, and judicial and administrative processes.
Hours: 54 lecture
C-ID: BUS 125
Transferable: UC, CSU and private colleges

BSAD B19 Business Law: Business Entities and Estates
1 unit
Recommended: Reading - one level prior to transfer.
Description: This course will cover business organizations including sole ownership, partnerships, and corporations. It will also include discussions of wills and trusts. Business students transferring to CSUB are advised to take this course in addition to BSAD B18 to match CSUB’s ACC 275.

BSAD B20 Introduction to Business
3 units
Recommended: Reading - one level prior to transfer.
Description: A survey in business providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization’s policy and practices within the U.S. and a global society. Demonstrates how these influences impact the primary areas of business including: organizational structure and design; leadership, human resource management, organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, financial practices; the stock and securities market; and therefore affect a business ability to achieve its organizational goals.
Hours: 54 lecture
C-ID: BUS 110
Transferable: UC, CSU and private colleges; BC GE D.2

BSAD B40 Personal Finance
3 units
Recommended: Reading - one level prior to transfer. Mathematics - two levels prior to transfer.
Description: Principles and skills of budgeting, making intelligent consumer choices related to consumer credit, banking services, insurance, taxes, transportation, investing for personal retirement, and real estate planning.
Hours: 54 lecture
C-ID: BUS 110
Transferable: UC, CSU and private colleges

BSAD B43 Principles of Management
3 units
Recommended: Reading - one level prior to transfer.
Description: A study of formal organizations, the organizational environment and organizational planning and control. Topics include the nature of complex organizations, decision-making, small group studies and individual behavior. Also included are planning theory, systems management, and non-formal behavior.
Note: For elective credit only.
Hours: 54 lecture
C-ID: BUS 110
Transferable: UC, CSU and private colleges

BSAD B48WE Occupational Work Experience Education
1-8 units
Prerequisites: Declared major or occupational goal and evaluation of student’s qualifications and objectives.
Description: College credit for business related learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student. Occupational work experience credit may accrue at the rate of 1 to 8 units per semester for a total of sixteen units, and students must work 75 paid hours or 60 non-paid hours per unit. Repetition allowed per Title 5 55253.
Hours: Non-paid 60 hours for each 1 unit (60 - 480). Paid 75 hours for each 1 unit (75 - 600).
C-ID: BUS 110
Transferable: UC, CSU and private colleges
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Hours</th>
<th>CCS</th>
<th>Transferable</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD B51</td>
<td>Business Mathematics</td>
<td>3</td>
<td>Basic arithmetic skills reviewed and applied to the solution of business problems. Emphasizes bank records, invoices, cash and trade discounts, markup and markdown, inventory valuation, payroll, simple and compound interest, promissory notes, installment buying, stocks and bonds, amortization, real estate loans, property tax, personal income tax, depreciation, and insurance.</td>
<td></td>
<td>54</td>
<td></td>
<td>Associate Degree only. Not transferable.</td>
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<tr>
<td>BSAD B53A</td>
<td>Introduction to Accounting 1</td>
<td>3</td>
<td>An introduction to modern financial accounting theory and practice. Analysis of financial transactions using the rules of double-entry bookkeeping. Accounting cycle including adjusting entries, the expanded worksheet, the use of special journals, bank reconciliations and the preparation of financial statements.</td>
<td>BSAD B53A with grade of ‘C’ or better.</td>
<td>54</td>
<td></td>
<td>Associate Degree only. Not transferable.</td>
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<tr>
<td>BSAD B53B</td>
<td>Introduction to Accounting 2</td>
<td>3</td>
<td>A continuation of an introduction to modern financial accounting theory and practice. Analysis of financial transactions peculiar to the partnership and inventory, accounts receivable, notes payable, notes receivable and drafts, depreciation, depletion and amortization, capital stock transactions, bonds and other long-term liabilities and Statement of Cash Flows.</td>
<td>BSAD B53A with grade of ‘C’ or better.</td>
<td>54</td>
<td></td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>BSAD B54</td>
<td>Payroll Accounting</td>
<td>3</td>
<td>A foundation in payroll computations, payroll record keeping, and the filing of quarterly and annual payroll tax reports. Involves the study of California Disability Insurance, California Unemployment Insurance, Federal Social Security, Federal Unemployment Insurance, Federal Income Tax and California Income Tax, and how these taxes affect the employee/employer.</td>
<td>BSAD B53A or BSAD B1 with grades of ‘C’ or better.</td>
<td>54</td>
<td></td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>BSAD B55</td>
<td>Computer Accounting Applications</td>
<td>3</td>
<td>Review and practical application of accounting principles, electronic spreadsheets, word processing and data management as they pertain to solution of accounting problems and situations on a microcomputer. Emphasizes analysis of problems and student initiative to solve the problems presented using computerized software available.</td>
<td>BSAD B1 or BSAD B53B with a grade of C or better.</td>
<td>54</td>
<td></td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>BSAD B61</td>
<td>Human Resources Management</td>
<td>3</td>
<td>A comprehensive study and review of human resources management. The course focus is on strategic planning, the nature and function of hiring, recruitment, training, development and retention of employees and staff. Topics include performance appraisals, compensation, motivation, retraining, disciplinary action, labor relations, and contract negotiations. The course also emphasizes federal, state, and local laws as they apply to employers and employees in both the private and public sectors.</td>
<td>BSAD B53A or BSAD B1 with grades of ‘C’ or better.</td>
<td>54</td>
<td></td>
<td>Credit Course</td>
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<tr>
<td>BSAD B65</td>
<td>Principles of Organizational Communication</td>
<td>3</td>
<td>Examination of written and oral communication in the business world. Course will examine the processes of human behavior and communication within the organizational context. It will test the principles of English writing skills and communication in the business office. Focuses on writing letters, memorandums, e-mails, resumes, reports and oral presentations. Course will define the barriers to effective communication and teach the appropriate techniques to overcome poor communication skills.</td>
<td>BSAD B53A with grade of ‘C’ or better.</td>
<td>54</td>
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<td>Associate Degree only. Not transferable.</td>
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<tr>
<td>BSAD B85</td>
<td>Business English</td>
<td>3</td>
<td>Basic English grammar course focusing on nouns, pronouns, verbs, adjectives, adverbs, conjunctions, and prepositions. Also includes standard punctuation, capitalization, number usage, and vocabulary development.</td>
<td>BSAD B53A with grade of ‘C’ or better.</td>
<td>54</td>
<td></td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>BSAD B88</td>
<td>Office Procedures</td>
<td>3</td>
<td>A finishing course for students completing their training in office assisting. Course focuses on the techniques currently taking place in the office environment and is designed to develop knowledge and skills necessary for success in the workplace. Topics such as job attitudes, communications, human relations, and time and stress management are featured. Also included are telephone techniques, processing mail, travel arrangements, appointment scheduling, arranging meetings, the job application process, and interviewing techniques.</td>
<td>BSAD B53A with grade of ‘C’ or better.</td>
<td>54</td>
<td></td>
<td>Associate Degree only. Not transferable.</td>
</tr>
<tr>
<td>BSAD B90</td>
<td>Fundamentals of Retailing</td>
<td>3</td>
<td>Principles and practices used in management of retail businesses. Includes site selection, layout, organization, staffing, positioning, customer service, promotional techniques, and all aspects of the critical buying function.</td>
<td>BSAD B53A with grade of ‘C’ or better.</td>
<td>54</td>
<td></td>
<td>Associate Degree only. Not transferable.</td>
</tr>
</tbody>
</table>
BSAD B91 E-Commerce  
1 unit  
**Description:** Introduces students to E-Commerce basics. Emphasis is placed on exploring marketing issues, payment processing, collections, security, and customer service.  
**Hours:** 18 lecture  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

BSAD B252A Computer Keyboarding, Part 1  
1 unit  
**Description:** Students learn the basic techniques of the touch system in the mastery of the alpha/numeric keyboard and develop speed and accuracy in keying data. This is a basic course in the Office Technology curriculum and is a life-long learning skill.  
**Hours:** 54 laboratory  
**Transferable:** Associate Degree only. Not transferable.

BSAD B252B Computer Keyboarding, Part 2  
1 unit  
**Prerequisites:** BSAD B252A with a grade of 'C' or better.  
**Description:** A continuation course where students learn the basic techniques of the touch system in the mastery of the alpha/numeric keyboard and develop speed and accuracy in keying data. They also develop the basic formatting skills necessary to produce letters, memorandums, reports, and tables. This is a basic course in the Office Technology curriculum and is a life-long skill. Open entry/open exit course with individualized instruction in a supervised laboratory.  
**Hours:** 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

BSAD B252C Computer Keyboarding, Part 3  
1 unit  
**Prerequisites:** BSAD B252b with a grade of 'C' or better.  
**Description:** The third part in a series where students learn the basic techniques of the touch system in the mastery of the alpha/numeric keyboard and develop speed and accuracy in keying data. They also develop the basic formatting skills necessary to produce letters, memorandums, reports, and tables. This is a basic course in the Office Technology curriculum and is a life-long skill. Open entry/open exit course with individualized instruction in a supervised laboratory.  
**Hours:** 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

BSAD B253A Document Processing, Part 1  
1 unit  
**Prerequisites:** BSAD B252c with a grade of 'C' or better.  
**Description:** Further develops keyboarding speed, accuracy, and production rates on letters, reports, tables, forms, rough drafts, newsletters, and other documents using Microsoft Word applications. Emphasis is on producing usable copy for employment purposes and increasing keyboarding skill levels. Open entry/open exit course with individualized instruction in a supervised laboratory.  
**Hours:** 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

BSAD B253B Document Processing, Part 2  
1 unit  
**Prerequisites:** BSAD B253a with a grade of 'C' or better.  
**Description:** The second part in the series where student further develops keyboarding speed, accuracy, and production rates on letters, reports, tables, forms, rough drafts, newsletters, and other documents using Microsoft Word applications. Emphasis is on producing usable copy for employment purposes and increasing keyboarding skill levels. Open entry/open exit course with individualized instruction in a supervised laboratory.  
**Hours:** 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

BSAD B253C Document Processing, Part 3  
1 unit  
**Prerequisites:** BSAD B253b with a grade of 'C' or better.  
**Description:** The third in the series where student further develops keyboarding speed, accuracy, and production rates on letters, reports, tables, forms, rough drafts, newsletters, and other documents using Microsoft Word applications. Emphasis is on producing usable copy for employment purposes and increasing keyboarding skill levels. Open entry/open exit course with individualized instruction in a supervised laboratory.  
**Hours:** 54 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

BSAD B264 Ten-Key Proficiency  
0.5 unit  
**Description:** Skill and proficiency in the use of the ten-key calculator by touch and the application of such skill and proficiency in the solution of the more frequently encountered business problems. Open entry/open exit course with individualized instruction in a supervised laboratory.  
**Hours:** 27 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

BSAD B280 Machine Transcription  
1.5 units  
**Prerequisites:** BSAD B280c and BSAD B85 or BSAD B285 with a grade of 'C' or better.  
**Description:** Students learn the skill of operating transcribing machines and develop skill in keying documents while listening to dictated material. Practice in transcribing letters, memoranda, and other business correspondence is stressed. Course emphasizes English usage, punctuation, spelling/word usage, and proper document formatting when transcribing data. Open entry/open exit course with individualized instruction in a supervised laboratory.  
**Hours:** 81 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

BSAD B285 Business English  
3 units  
**Description:** Basic English grammar course focusing on nouns, pronouns, verbs, adjectives, adverbs, conjunctions, and prepositions. Also includes standard punctuation, capitalization, number usage, and vocabulary development.  
**Hours:** 162 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.
BSAD B287 Filing
1.5 units
Description: Training in principles of filing and records management according to the Association of Records Managers and Administrators (ARMA). Study and practice in filing by alphabetic, numeric, geographic, and subject methods. Open entry/open exit course with individualized instruction in a supervised laboratory.
Hours: 81 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

Chemistry Courses

CHEM B1A General Chemistry I
5 units
Prerequisites: Mathematics - one level prior to transfer. CHEM B2A with a grade of ‘C’ or better or high school chemistry. Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Basic principles of chemistry, including atomic structures, stoichiometry, reaction energy, chemical bonding, periodic relationships of the elements, states and properties of matter, solution, introduction to acids and bases, a brief introduction to descriptive chemistry of the elements, and other topics as appropriate. The laboratory emphasizes quantitative methods.
Hours: 54 lecture, 108 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; CSU GE B.3; BC GE B.1

CHEM B1B General Chemistry and Chemical Analysis
5 units
Prerequisites: CHEM B1A with a grade of ‘C’ or better
Recommended: Chemistry prerequisite accomplished within two years prior to taking this class.
Description: Continuation of CHEM B1A. Includes kinetics; equilibrium; thermodynamics; equilibrium as it applies to acid-base, solubility, and electrochemistry; nuclear chemistry; coordination chemistry; the descriptive chemistry of selected elements; and an introduction to organic chemistry. The laboratory includes qualitative analysis, quantitative techniques, and descriptive experiments.
Hours: 54 lecture, 108 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

CHEM B2A Introductory General Chemistry
4 units
Prerequisites: Reading - one level prior to transfer. Mathematics - two levels prior to transfer. Writing - one level prior to transfer.
Description: Course covers the principles and applications of general college chemistry. It is designed for liberal arts, physical education and some baccalaureate nursing majors. Recommended also for students who need additional background for the more intensive course, CHEM B1A.
Note: Not open to students with credit in CHEM B1A.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; CSU GE B.3; BC GE B.1

CHEM B11 Introduction to General, Organic, and Biochemistry
5 units
Prerequisites: Mathematics - two levels prior to transfer. Reading - one level prior to transfer.
Description: An introduction to general, organic, and biochemistry using a qualitative and quantitative approach. Topics include physical principles of chemistry; inorganic compounds and reactions; a survey of organic chemistry-classification, compounds, reactions, nomenclature; biochemistry-classification, composition, reactions in living organisms.
Hours: 54 lecture, 108 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; CSU GE B.3; BC GE B.1

CHEM B18 Elementary Organic Chemistry
5 units
Prerequisites: CHEM B1A with a grade of ‘C’ or better, or CHEM B2A with a grade of ‘B’ or better, or instructor approval.
Description: Introduction to and study of the chemistry of organic compounds: the functional groups, representative types of theory behind, organic reactions, and the biological classes of proteins, fats, carbohydrates, and nucleic acids. Will prepare students well for further study in organic chemistry, and serve those interested in the sciences and related fields, including ones requiring a semester of organic chemistry for transfer/entrance. The laboratory covers fundamental techniques including separations, synthesis, identification, and instrumental analysis.
Hours: 54 lecture, 108 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; CSU GE B.3; BC GE B.1

CHEM B30A Organic Chemistry for Science Majors, I
5 units
Prerequisites: CHEM B18 with a grade of ‘C’ or better.
Description: This is the first semester of a one-year course in organic chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine, and related areas). Taken as a sequence, the course covers fundamental principles and concepts of organic chemistry including (but not limited to) bonding, molecular structure, the standard functional groups, nomenclature, stereochemistry, reactions, and mechanisms. Strong emphasis is placed on reaction mechanisms, stereochemistry, multiple-step syntheses, and structure elucidation using hands-on modern instrumental methods (multinuclear NMR, FT-IR, GC, etc.). In addition, various modern computational techniques and an introduction to bio-molecules are presented. The laboratory covers preparative and modern analytical techniques and instrumentation, exposure to a variety of reactions and procedures, performing multistep syntheses, and safety and ecologically friendly protocols.
Hours: 54 lecture, 108 laboratory
CCS: Credit Course
C-ID: CHEM 160S
Transferable: UC, CSU and private colleges; CSU GE B.1

CHEM B30B Organic Chemistry for Science Majors, II
5 units
Prerequisites: CHEM B30A with a grade of ‘C’ or better.
Description: This is the second semester of a one-year course in organic chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine, and related areas). Taken as a sequence, the course covers fundamental
principles and concepts of organic chemistry including, but not limited to structure, bonding, nomenclature, stereochemistry, the standard functional groups, reactions, and mechanisms. Special emphasis is placed on reaction mechanisms, stereochemistry of reactions, multi-step syntheses, and structure elucidation using modern instrumental methods (multinuclear NMR, FT-IR, GC, etc.). In addition, various modern computational techniques and an introduction to bio-molecules are presented.

**Hours:** 54 lecture, 108 laboratory
**CCS:** Credit Course
**C-ID:** CHEM 160S
**Transferable:** UC, CSU and private colleges; CSU GE B.1

### Child Development Courses

**CHDV B13C Child Growth and Development: The Infant Toddler Years**

3 units

**Recommended:** Reading - one level prior to transfer.
**Description:** Study of theory, research, cognitive and sensory development of the Infant Toddler Years. Class will look at mother-child interactions as well as role of caregivers along with age appropriate curriculum and infant programs.

**Hours:** 54 lecture
**CCS:** Occupational Education
**Transferable:** CSU and private colleges

**CHDV B20 Principles and Practices**

3 units

**Recommended:** Reading - one level prior to transfer.
**Description:** An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs and environments. Emphasis is on the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and development for all children. Course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. Formerly CHDV B20, Introduction to Child Growth and Development.

**Hours:** 54 lecture
**CCS:** Occupational Education
**C-ID:** ECE 120
**Transferable:** CSU and private colleges

**CHDV B21 Child Growth and Development: Birth through Adolescence**

3 units

**Recommended:** CHDV B20 with a grade of ‘C’ or better. Reading - one level prior to transfer.
**Description:** Interdisciplinary study of physical, social, emotional, and cognitive and language development from conception through adolescence for both typical and atypical children. The family and broader cultural environments provide the context for the study. Topics include historical views of children, developmental theories, research methodology, and patterns of growth.

**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** CDEV 100
**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.7; CSU GE E; BC GE D.1

**CHDV B22 Observation and Assessment - Birth through Adolescence**

3 units

**Prerequisites:** CHDV B21 with a grade of C or better and Reading - one level prior to transfer.
**Description:** Course includes acquisition and application of basic observation skills regarding children’s physical, cognitive, language, social and emotional development from birth to adolescence.

**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** ECE 200
**Transferable:** CSU and private colleges

**CHDV B32 Teaching in a Diverse Society**

3 units

**Description:** The relationship between critical aspects of culture and the social-emotional development of children, adolescents and adults is analyzed from an anti-bias, multi-cultural perspective. Diversity is examined through the different values, beliefs, modes of communicating, behaving and perceiving the world.

**Hours:** 54 lecture
**CCS:** Occupational Education
**C-ID:** ECE 230
**Transferable:** CSU and private colleges

**CHDV B33 Survey of Special Education**

3 units

**Recommended:** Reading - one level prior to transfer.
**Description:** Introduction to special education in the public schools. Emphasizes legal aspects, assessment and placement. Includes examination of all disabilities served in the public schools and day care settings and the role of the child care professionals and paraprofessionals in the field of special education.

**Hours:** 54 lecture
**CCS:** Occupational Education
**C-ID:** ECE 130
**Transferable:** CSU and private colleges

**CHDV B36 Developmentally Appropriate Curriculum**

3 units

**Description:** Planning for and implementation of developmentally appropriate curriculum for children ages birth - 8 years. Includes major concepts and theories of child growth and development for children in infant/toddler, preschool, kindergarten and early primary grades. Students will be expected to observe and assess classroom environments and provide an appropriate environment.

**Hours:** 54 lecture
**CCS:** Occupational Education
**C-ID:** ECE 130
**Transferable:** CSU and private colleges

**CHDV B40 Creative Art, Movement, and Music Activities for Young Children**

3 units

**Recommended:** Reading - one level prior to transfer.
**Description:** Materials, methods, and objectives in teaching art, movement, and music activities for children birth to six years old. The growth of creativity through developmentally appropriate activities, and communicating to parents the value of play will be emphasized. Meets Child Development Associated Options, Competencies #4-7.

**Hours:** 54 lecture
**CCS:** Occupational Education
CHDV B41 Supervised Field Experience in Early Childhood Education

3 units

Recommended: Reading - one level prior to transfer.
Prerequisites: CHDV B20, CHDV B21, CHDV B42, and CHDV B36 with grades of 'C' or better.
Description: Basic techniques of working with children including promoting self-esteem, creativity, self-discipline; development of physical and cognitive skills; and planning appropriate curriculum, connections between theory and practice, development of professional behaviors, child centered approaches to teaching, learning, and assessment, implementing and evaluating experiences that promote positive development and learning. The lab portion of this course includes supervised field experience working with children two to five years in age in a Child Development Center applying knowledge gained in lecture. Field trips may be required.
Note: Not open to students who have successfully completed CHDV B41A or CHDV B41B.
Hours: 18 lecture, 108 laboratory
CCS: Credit Course
C-ID: ECE 210
Transferable: CSU and private colleges

CHDV B42 Child, Family, and Community

3 units

Description: Course includes the study of the socializing of children in developmental, family, and community contexts, with an emphasis on historical and socio-cultural factors. In addition, identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. Field trips may be required.
Hours: 54 lecture
CCS: Occupational Education
C-ID: CDEV 110
Transferable: UC, CSU and private colleges; CSU GE D.7; CSU GE E

CHDV B45A Administration of Programs for Young Children: Business Procedures

3 units

Recommended: Reading - one level prior to transfer.
Description: Administration of programs for young children including private and publicly-funded child care centers and preschool programs. Emphasizes business procedures and public policy. Field trips required.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

CHDV B45B Administration of Programs for Young Children: Personnel Management Procedures

3 units

Description: Administration of programs for young children including private and publicly-funded child care centers and preschool programs. Emphasizes personnel management and public policy.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges, elective credit only

CHDV B49 Child Health, Safety and Nutrition

3 units

Recommended: Reading - one level prior to transfer.
Description: Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. Pediatric CPR and First Aid certification are completed (books and certification costs are at the student's expense) Totally fulfills California licensing mandate of 15 hours of training in preventative health practices.
Hours: 54 lecture
CCS: Credit Course
C-ID: ECE 220
Transferable: CSU and private colleges

CHDV B52 Care of Infants and Toddlers with Disabilities

3 units

Description: Interdisciplinary course designed to prepare child care workers and education aides to care for disabled and chronically ill infants and toddlers.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

CHDV B53A Early Childhood Education: Adult Supervision

2 units

Description: A study of the methods and principles of supervising and teaching adults in early childhood classrooms. Emphasis is on the role of experienced classroom teachers who function as a supervisor and/or mentor for staff or new teachers in a child care environment while simultaneously addressing the needs of the children and parents.
Hours: 36 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

Communication Courses

COMM B1 Public Speaking

3 units

Recommended: Writing - one level prior to transfer. Reading - one level prior to transfer.
Description: Instruction in the composition, presentation and evaluation of original speeches and critical assessment of other communication events. Emphasizes topic selection, research, organization, development, delivery, audience analysis and critical analysis of persuasive communication.
Hours: 54 lecture
CCS: Credit Course
C-ID: COMM 110
Transferable: UC, CSU and private colleges; IGETC 1.C; CSU GE A.1; BC GE A.1

COMM B2 Interpersonal Communication

3 units

Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: An introduction to interpersonal communication as it pertains to exploration of the individual's relationships to
others and the broader society including romantic, friendship, family and professional relationships at every age. Emphasis will be put on social, physiological and cultural influences such as social interaction, verbal communication, nonverbal communication, touch, human interaction and emotion that shape personal identity and interpersonal relationships, ethical communication founded on communication theory and research, and effective conflict resolution methods. Focus will also include participation in experiences designed to enhance competence and develop skills in interpersonal communication.

**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** COMM 130
**Transferable:** UC, CSU and private colleges; BC GE E

### COMM B4 Persuasive Communication
3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Principles and practices of persuasion in various communication settings. Prepare and deliver persuasive speeches for specific audiences.

**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** COMM 130
**Transferable:** UC, CSU and private colleges; IGETC 1.C; CSU GE A.1; BC GE A.1

### COMM B5 Rhetoric and Argumentation
3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Theoretical and practical aspects of argumentation and public debating to develop students’ critical thinking abilities. Emphasis is on composition, presentation, and evaluation of speeches in argumentative, debate, and advocacy contexts. Identification of public issues, research and organization of evidence, building sound and effective arguments, and facility with debate formats are the primary learning outcomes of this course. Introduces logical reasoning and builds competence with formal reasoning before applying those to argumentation and debate about public issues.

**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** COMM 120
**Transferable:** UC, CSU and private colleges; CSU GE A.3; BC GE B.2

### COMM B6 Intercultural Communication
3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Introduction to intercultural communication in domestic and/or global contexts. Influence of cultures, languages, and social patterns on how members of groups relate among themselves and with members of different ethnic and cultural groups. Theory and knowledge of effective communication within and between cultures. Appreciation and comparison of communication among diverse groups within the larger context of American culture. Practical application of skills will be highlighted.

**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** COMM 150
**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.3; CSU GE D.7; BC GE D.1

### COMM B7 Organizational Communication
3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Course concentrates on a global look at communication in an organizational setting; theory and practice of communication in private and public organizations, interpersonal and group communication patterns within organizations, systems of ethical internal and external communication, leadership in the organization, organizational cultures impact on communication, and the role of communication in achieving organizational goals. Course includes team projects that will require work outside of class and visits to a community location of your teams choosing.

**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** COMM 140
**Transferable:** CU, CSU and private colleges; IGETC 1.C; CSU GE A.1; BC GE A.1

### COMM B8 Small Group Communication
3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** This oral communication class examines small group processes such as group formation and development, conflict, problem solving, and group climate. Covers an understanding of diversity, leadership roles, and theory. Students participate in class groups where experiential learning and presentations are part of the class experience. Small group meetings outside of class time are required. Field trips may be required.

**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** COMM 140
**Transferable:** UC, CSU and private colleges; IGETC 1.C; CSU GE A.1; BC GE A.1

### COMM B9 Health Communication
3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Course introduces student to the theory and practice of health communication in dyadic, small group, organizational, and mass media contexts. Students examine topics such as provider-client communication, the influence of diversity and culture on health communication, and the role that the mass media plays in disseminating health information. Selected topics and theories of human communication are directly applied to communication situations in health care settings through the use of case studies. Emphasis is on understanding and improving health communication among health professionals, between health professionals and clients, and with the general public.

**Hours:** 54 lecture
**CCS:** Liberal Arts/Science
**Transferable:** CU and private colleges

### COMM B10 Leadership and Communication
3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Course presents theories of communication, leadership and followship as they explore the essential role communication plays in leadership at all levels. Course emphasizes the study of communication skills that are central to performing successfully as a leader in a variety of contexts including organizational, familial, team and public settings. Specific attention is given to self-assessment of
leadership and communication skills, self-reflection, and creation of a personal leadership communication plan.

Note: Not open to students who have successfully completed COMP B49 or COMP B49B.

**COMP B21 Oral Interpretation**

3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Study of the theoretical and technical aspects involved in the selection, analysis, interpretation and oral performance of various forms of literature, including poetry, prose, and drama (plays, scripts, and screenplays). Includes participation in various types of performance exercises including presentation of prose, poetry, drama and group ensemble.

**Hours:** 54 lecture

**CCS:** Liberal Arts/Science

**Transferable:** CSU and private colleges

**COMP B2 Introduction to Computer Information Systems**

3 units

**Prerequisite:** Reading - one level prior to transfer

**Description:** Introduction to the concepts of computer information systems as problem-solving tools in business, economics, mathematics, and the sciences. Includes the history of computer system components, and sequential and direct-access processing. Database management systems, teleprocessing, and distributed processing are covered. An overview of personal computer applications software (word processing, electronic spreadsheets, and personal database management systems) is also included.

**Note:** Not open to students who have successfully completed COMS B2, COMS B3, COMP B3.

**Hours:** 54 lecture

**CCS:** Credit Course

**C-ID:** BUS 140

**Transferable:** UC, CSU and private colleges

**COMP B10 Introduction to Programming Methodologies using Python**

3 units

**Recommended:** Reading - one level prior to transfer

**Description:** This course is designed as a first course in software engineering for mixed-majors, with an emphasis on the Computer Science major. Students will use the object-oriented programming language Python to learn the fundamentals of programming. Topics include: variables, sequence, selection, iteration, the software life-cycle, as well as common programming algorithms such as sorting and searching.

**Note:** Not open to students who have successfully completed COMS B10.

**Hours:** 54 lecture

**CCS:** Credit Course

**C-ID:** COMP 112

**Transferable:** CSU and private colleges

**COMP B11 Programming Concepts and Methodology I**

3 units

**Prerequisites:** Reading - one level prior to transfer and Mathematics - one level prior to transfer.

**Recommended:** COMP B10 with a grade of ‘C’ or better or instructor approval.

**Description:** This course is an introduction to the discipline of computer science, with a focus on the design and implementation of algorithms to solve simple problems using a high-level programming language. Topics include fundamental programming constructs, problem-solving strategies, debugging techniques, declaration models, and an overview of procedural and object-oriented programming languages. Students will learn to design, implement, test, and debug algorithms using pseudocode and a high-level programming language.

**Note:** Not open to students who have successfully completed COMS B14.

**Hours:** 54 lecture

**CCS:** Credit Course

**C-ID:** COMP 122

**Transferable:** UC, CSU and private colleges

**COMP B12 Programming Concepts and Methodology II**

3 units

**Prerequisite:** COMP B11 with a grade of ‘C’ or better

**Description:** This is a software engineering course focused on the application of software engineering techniques for the design and development of large programs. Topics include object oriented programming, data abstraction, data structures and their associated algorithms, and recursion. Students will learn to design, implement, test, and debug programs using an object-oriented language.

**Note:** Not open to students who have successfully completed COMS B35.

**Hours:** 54 lecture

**CCS:** Credit Course

**C-ID:** COMP 132

**Transferable:** UC, CSU and private colleges

**COMP B13 Computer Architecture and Organization**

3 units

**Recommended:** COMP B11 with a grade of ‘C’ or better

**Description:** This course is an introduction to the organization and behavior of computer systems at the assembly language level. Topics include numerical computation, the internal representation of simple data types and structures, data representation errors, and procedural errors. Students will learn how to map statements
and constructs of high-level languages onto sequences of machine instructions.

**COMP B14 Discrete Structures**

*3 units*

**Prerequisite:** COMP B11 with a grade of ‘C’ or better

**Description:** This course is an introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include functions, relations and sets, basic logic, proof techniques, basics of counting, graphs and trees, and discrete probability.

**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** COMP 152
**Transferable:** CSU and private colleges

**COMP B21 Database Systems - Design & Structured Query Language (SQL)**

*3 units*

**Recommended:** Reading - one level prior to transfer.

**Description:** Course emphasizes “best practices” for relational database design (modeling) and the use of Structured Query Language (SQL) for database manipulation. Normalization, data diagramming, concurrency and other key database concepts will be discussed. Microsoft Access, MySQL, Microsoft SQL Server, and other database management systems will be used to demonstrate concepts. Upon successful completion of this course, students will be able to design real world databases and manipulate them using SQL.

**Note:** Not open to students who have successfully completed COMS B34.

**Hours:** 54 lecture
**CCS:** Credit Course
**Transferable:** CSU and private colleges

**COMP B31 CompTIA Network Security - Security+**

*3 units*

**Recommended:** Reading - one level prior to transfer.

**Description:** Course is designed for individuals interested in a career in computer network security. Course prepares students for the vendor-neutral CompTIA Security+ certification exam. Topics covered are: networking fundamentals, the OSI model, network protocols, logical and physical architectures in both local and wide area networks, the physical parts of a network (wiring, NICs, hubs, routers, bridges and switches), popular network operating systems, network troubleshooting and security.

**Note:** Not open to students who have successfully completed COMS B82.

**Hours:** 54 lecture
**CCS:** Credit Course
**Transferable:** CSU and private colleges

**COMP B32 CompTIA Linux+**

*3 units*

**Recommended:** Reading - one level prior to transfer.

**Description:** A general introduction to Linux installation and Administration. Covers the essentials of installing, configuring, maintaining, administering and troubleshooting the Linux Operating System.

**Note:** Not open to students who have successfully completed COMS B41.

**Hours:** 54 lecture
**CCS:** Credit Course
**Transferable:** CSU and private colleges

**COMP B33 CompTIA Networking Technologies - Network+**

*3 units*

**Recommended:** Reading - one level prior to transfer.

**Description:** Designed for individuals interested in a career in computer networking. Course prepares students for the vendor-neutral CompTIA Network+ certification exam. Topics covered are: networking fundamentals, the OSI model, network protocols, logical and physical architectures in both local and wide area networks, the physical parts of a network (wiring, NICs, hubs, routers, bridges and switches), popular network operating systems, network troubleshooting and security.

**Note:** Not open to students who have successfully completed COMS B82.

**Hours:** 54 lecture
**CCS:** Credit Course
**Transferable:** CSU and private colleges

**COMP B41 Web Design: Design Tools**

*3 units*

**Recommended:** Reading - one level prior to transfer.

**Description:** This course is an introductory web design course, focusing on the use of web design tools such as Adobe Dreamweaver and other similar WYSIWYG (What you see is what you get) tools to create web pages from a design perspective.

**Note:** Not open to students who have successfully completed COMS B74a.

**Hours:** 54 lecture
**CCS:** Credit Course
**Transferable:** CSU and private colleges

**COMP B42 Web Design: HTML & CSS**

*3 units*

**Recommended:** Reading - one level prior to transfer.

**Description:** This course is an introductory course in designing web pages using HTML and CSS coding. Rather than using a program to write the code, students will learn how to create basic web pages and sites from the ground up using standards-compliant coding techniques.

**Note:** Not open to students who have successfully completed COMS B74b.

**Hours:** 54 lecture
**CCS:** Credit Course
**Transferable:** CSU and private colleges

**COMP B43 Web Design: JavaScript**

*3 units*

**Prerequisite:** COMP B42 with a grade of ‘C’ or better or instructor assessment of student’s knowledge / experience with HTML and CSS.

**Description:** This is an advanced level course in the web design area. Students will build upon previous knowledge of HTML and CSS to create dynamic and interactive web pages using JavaScript.

**Note:** Not open to students who have successfully completed COMS B74c.

**Hours:** 54 lecture
**CCS:** Credit Course
**Transferable:** CSU and private colleges

**COMP B72 Applied Software Design**

*3 units*

**Prerequisite:** COMP B10, COMP B11 and COMP B21 with grades of ‘C’ or better, or approval of instructor
Description: The course integrates many aspects of modern end-user computer application design. This includes the SDLC needs assessment, database modeling, SQL, user interface design and the programming that ties these components together. Internal and end-user documentation will also be covered. This course should be taken as the final course for those pursuing the Software Development Certificate of Achievement.

**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

**COMP B84 CompTIA A+**

**4 units**  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Designed to cover the information and materials needed to enable students to successfully pass the CompTIA A+ examination. Covers the fundamentals of computer technology, installation and configuration of PCs, laptops and related hardware, and basic networking. Includes hardware and software troubleshooting using various diagnostic tools and methods employed in industry.

**Note:** Not open to students who have successfully completed COMS B101L.

**Hours:** 54 lecture, 54 laboratory  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

**COMP B94 Web Design: PHP & MySQL**

**3 units**  
**Prerequisite:** COMP B42 with a grade of ‘C’ or better; or assessment of student’s HTML and CSS skills and knowledge by the instructor.

**Description:** This is an advanced web design course. Building on a foundation of the HTML coding principles and practice, students in this class will learn to develop server-side solutions using PHP and MySQL as a platform.

**Note:** Not open to students who have successfully completed COMS B75c.

**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

**Construction Technology Courses**

**CNST B1 Introduction to Construction**

**3 units**  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Basic concepts of the construction industry. Overview of careers in construction, related safety and math, print reading, and construction techniques investigated.

**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**CNST B2 Estimating and Scheduling**

**3 units**  
**Recommended:** CNST B1 with a grade of ‘C’ or better, or one year work experience in the construction related industry. Reading - one level prior to transfer.

**Description:** Techniques in managing and organizing a construction project including plan reading, estimating and scheduling are covered. The extraction of the information necessary to calculate quantities and costs is investigated. Use of computer programs to manage a construction project and to calculate the cost and keep track of the scheduling is explored and practiced. Practice and theory are pursued.

**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**CNST B50A Residential Construction**

**7 units**  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Intended to provide students with an overview of the construction profession. Various aspects of residential construction from site preparation through framing phases will be studied and performed. Special interest will be on construction safety, the initial phases of construction & investigation of emerging building trends & techniques. Finish carpentry & plumbing phases and techniques will also be introduced.

**Hours:** 54 lecture, 216 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

**CNST B50B Residential Construction**

**7 units**  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Intended to provide students with an overview of the construction profession. Various aspects of residential construction from post rough framing to final completion will be studied and performed. Special interest will be on construction safety, the finish carpentry & electrical phases of construction & investigation of emerging building trends & techniques. Initial phases and techniques will be reviewed.

**Hours:** 54 lecture, 216 laboratory  
**CCS:** Occupational Education  
**Transferable:** Associate Degree only. Not transferable.

**Correctional Administration Courses**

**CADM B54 Corrections Officer Core Course**

**7 units**  
**Description:** This course is designed to meet the Corrections Standards Authority requirements for entry-level Corrections Officers in Adult Detention Facilities. This course covers various legal issues in dealing with incarcerated offenders as well as supervision of inmates. Transportation, report writing, blood borne pathogens, CPR, First Aid, receiving and releasing of inmates, weaponless defense, Fire and Life Safety.

**Hours:** 90 lecture, 110 laboratory  
**CCS:** Credit Course  
**Transferable:** Not transferable.

**CADM B55 Deputy Probation Officer Core Course**

**3.5 units**  
**Description:** Introductory probation officer training providing the necessary knowledge and skills required for entry level deputy probation officers. Designed to comply with the State of California, Board of Corrections, Standards and Training for Corrections (STC). Covers professionalism, ethics, introduction to the criminal justice system, laws, confidentially, juvenile detention, case information and problem identification, interviewing, restitution, report writing, casework, counseling, monitoring and supervising offenders, officer safety and defensive tactics, physical skills, responding to probationer performance, CPR.

**Hours:** 140 lecture, 36 laboratory  
**Repeat:** 2  
**CCS:** Occupational Education
CADM B56 Special Topics
0.2-3 units
Description: Various mandated training topics required by Standards and Training in Corrections (STC) from the California Board of Corrections.
Hours: 8 lecture hours for each .2 unit (8-120)
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B58 Supervisor Core Course
3 units
Description: Provides the Standards in Corrections Training (STC) curriculum for newly promoted corrections supervisors (as described in Section 181, Title 15, CCR). Includes supervisory role identification, leadership styles, values, ethics, principles, assertive leadership, employee performance appraisals, liability issues and legal updates, discipline, employee counseling, planning and organization, communication, investigations, report review, and team building. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 40 lecture, 40 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B70A Prisoner Transportation
0.2 unit
Description: Intended for peace officers, correctional officers, juvenile institutions staff and probation officers. Covers various modes of prisoner transportation, the risks involved, and how to achieve a secure transportation, including the application and use of mechanical restraints. This course meets the training requirements as set forth by the Corrections Standards and Training for Corrections Program.
Hours: 7 lecture, 1 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70B Prison Gangs
0.2 unit
Description: Intended for people working in law enforcement and corrections. Teaches tolerance of others who are unlike oneself, to make allowances for cultural differences, values and beliefs. Adjusts preconceptions and misconceptions, attitudes and encourages communication styles without implications of discrimination. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 5 lecture, 3 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B70C Escape Prevention
0.2 unit
Description: Intended for people working in corrections. Teaches escape prevention procedures that deal primarily with basic institutional security principles, accountability of inmates, human error, and techniques used for escape prevention. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Programs.
Hours: 4 lecture, 4 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B70D Suicide Prevention
0.2 unit
Description: Designed for students who work in corrections. Covers identifying the potential for suicide, prevention techniques, intervention and responses including proper communication techniques during a crisis. Meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B70E Handling Aggressive and Assaultive Inmates
0.2 unit
Description: Provides training to corrections staff. Examines the violent criminal, explains the reasons for inmate violence, and offers tools to de-escalate confrontations. Provides demonstrations and an opportunity to practice evasive defense tactics. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 4 lecture, 4 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B70F Sexual Harassment Prevention
0.2 unit
Description: Designed for students who work in law enforcement/corrections. Identifies sexual harassment from a legal, moral, and social concept. Provides advice and counsel on how to prevent sexual harassment in the workplace. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 5 lecture, 3 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B70G Understanding Prejudice
0.2 unit
Description: Intended for people working in law enforcement and corrections. Teaches tolerance of others who are unlike oneself, to make allowances for cultural differences, values and beliefs. Adjusts preconceptions and misconceptions, attitudes and encourages communication styles without implications of discrimination. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 5 lecture, 3 laboratory
Repeat: unlimited
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Description</th>
<th>Hours</th>
<th>Repeat</th>
<th>CCS:</th>
<th>Transferable:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADM B70H</td>
<td>Crime Scene Preservation and Investigation</td>
<td>0.2</td>
<td>Intended for correctional officers, juvenile institutions staff and probation officers. Provides the required competencies to identify a crime scene, preserve evidence, mark and collect physical, trace and transient evidence. Meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.</td>
<td>8 lecture, 2 laboratory</td>
<td>unlimited</td>
<td>Occupational Education</td>
<td>Not degree applicable. Not transferable.</td>
</tr>
<tr>
<td>CADM B70I</td>
<td>Anger Management</td>
<td>0.2</td>
<td>Intended for people working in law enforcement and corrections. Designed to provide students with tools to control their own anger as well as provide a process to deal with angry people. Meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.</td>
<td>8 lecture</td>
<td>unlimited</td>
<td>Occupational Education</td>
<td>Not degree applicable. Not transferable.</td>
</tr>
<tr>
<td>CADM B70J</td>
<td>Informant Development and Management</td>
<td>0.2</td>
<td>Designed for students who work in corrections. Provides communication tools and legal framework necessary for successful implementation, use and protection of informants in a correctional institution. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.</td>
<td>8 lecture</td>
<td>unlimited</td>
<td>Occupational Education</td>
<td>Not degree applicable. Not transferable.</td>
</tr>
<tr>
<td>CADM B70K</td>
<td>Anatomy of a Set-Up; Games Inmates Play</td>
<td>0.5</td>
<td>Students will develop a greater understanding of criminal thinking &amp; behavior. This course will provide the student with the knowledge and communication skills to prevent or stop a set-up. Students will be able to identify and recite the signs and behaviors that contribute and make employees receptive to a set-up and to attempts at “game playing” by inmates.</td>
<td>8 lecture</td>
<td></td>
<td>Credit Course</td>
<td>Not degree applicable. Not transferable.</td>
</tr>
<tr>
<td>CADM B70L</td>
<td>Use of Force and Civil Liabilities</td>
<td>0.2</td>
<td>Designed for students who work in corrections. Students will identify and discuss specific trends in civil liabilities in the field of corrections with a focus on use of force. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.</td>
<td>8 lecture</td>
<td>unlimited</td>
<td>Occupational Education</td>
<td>Not degree applicable. Not transferable.</td>
</tr>
<tr>
<td>CADM B70M</td>
<td>Drug Recognition and Under Influence</td>
<td>0.2</td>
<td>Provides training to law enforcement, corrections and security officers (also recommended for educators). Prepares students to identify specific illicit drugs and the signs and symptoms of drug use and influence. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.</td>
<td>7 lecture, 1 laboratory</td>
<td>unlimited</td>
<td>Occupational Education</td>
<td>Not degree applicable. Not transferable.</td>
</tr>
<tr>
<td>CADM B70N</td>
<td>Fire and Life Safety</td>
<td>0.2</td>
<td>Hands-on training for corrections institution staff in fire prevention and suppression. Provides the knowledge and skills necessary for fire and emergency responses. Topics include evacuation management, tactical control measures, use of fire suppression equipment, use of the SCBA, search and rescue techniques. Meets the certification requirements for Standards and Training in Corrections (STC) from the California Board of Corrections.</td>
<td>8 lecture</td>
<td>unlimited</td>
<td>Occupational Education</td>
<td>Not degree applicable. Not transferable.</td>
</tr>
<tr>
<td>CADM B70O</td>
<td>Positive Inmate Staff Relations through Communication and Ethics</td>
<td>0.2</td>
<td>Provides training to corrections staff. Develops practical communication and ethical skills toward a positive inmate/staff working relationship in a jail/institutional environment. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.</td>
<td>5 lecture, 3 laboratory</td>
<td>unlimited</td>
<td>Credit Course</td>
<td>Not degree applicable. Not transferable.</td>
</tr>
<tr>
<td>CADM B70P</td>
<td>Emergency Procedures</td>
<td>0.2</td>
<td>Designed for corrections staff. Provides an overview of various emergencies arising within a correctional facility, including natural disasters, riots, work strikes, escapes. Policy, planning and response are discussed. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.</td>
<td>8 lecture</td>
<td>unlimited</td>
<td>Occupational Education</td>
<td>Not degree applicable. Not transferable.</td>
</tr>
</tbody>
</table>
**CADM B70R Inmate Work Incentive Program**

*0.2 unit*

**Description:** State law mandates that every inmate shall have a reasonable opportunity to participate in a full-time credit qualifying assignment, consistent with institutional security and available resources. Designed for the correctional officer who supervises such inmates. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours:** 8 lecture

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.

**CADM B70S Women in Corrections**

*0.2 unit*

**Description:** Designed for students who work in corrections. Explores the history of women in corrections and the career developments for women that have evolved in the field of corrections. Other topics include: special training needs, problems and restrictions placed on women, developing a mentoring program for female correctional staff. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours:** 8 lecture

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.

**CADM B70T Blood Borne Pathogens, T.B. Awareness, Psychotic Inmates**

*0.2 unit*

**Description:** Primarily designed for students who work in corrections. Learn how to prevent the transmission of blood borne pathogens; identify Tuberculosis awareness factors; recognize and deal with psychotic inmates. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours:** 8 lecture

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.

**CADM B70U Conflict Resolution and Hostage Survival**

*0.2 unit*

**Description:** Designed for students who work in corrections. Covers Conflict Resolution: develop skills to defuse and deescalate confrontational situations. Teaches: tactics and techniques to avoid being taken hostage, and what to do if you are taken hostage in a correctional setting. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours:** 8 lecture

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.

**CADM B70V Facility and Inmate Searches**

*0.2 unit*

**Description:** Provides training for corrections staff. Develops and enhances the knowledge and skills of searching both inmates and facilities. Covers searching techniques, clothed and unclothed body searches, and the current trends of introduction of contraband into a facility. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours:** 8 lecture

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.

**CADM B70W Restraint Gear Application**

*0.2 unit*

**Description:** Provides explanation and hands-on practice for the proper application and use of restraint gear. Explains how some gear can be slipped, picked, shimmed or broken. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours:** 4 lecture, 4 laboratory

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.

**CADM B70X Cell Extraction**

*0.2 unit*

**Description:** Designed for correctional staff. Provides knowledge and skills to perform calculated and emergency cell extractions in a safe manner. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Note:** Registration will be held during the first hour of the first class meeting.

**Hours:** 6 lecture, 2 laboratory

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.

**CADM B70Z Inmate Classification/Disciplinary Process**

*0.2 unit*

**Description:** Provides an introduction to the inmate classification process. Describes the basic procedure for assigning an inmate to a particular job based on security level and defines how the disciplinary process is a part of the classification process. Class meets the certification requirements for Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours:** 7 lecture, 1 laboratory

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.

**CADM B71A Basic Principles of Management**

*0.4 unit*

**Description:** An introduction to best practices of two-way communication between administration and line staff to ensure good facility management. Students will develop their leadership and communication skills. The art of discipline and grievances will be explored. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours:** 12 lecture, 4 laboratory

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.
CADM B71F Drug and Alcohol Awareness for Supervisors
0.2 unit
Description: Provides training to law enforcement, corrections and security supervisors (also recommended for educators). Prepares students to identify and determine whether an employee is under the influence of alcohol or drugs. Other topics include how supervisors can solicit help for employees to overcome substance abuse/addiction. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B71G Advanced Report Writing
0.2 unit
Description: This course is designed to provide corrections officer and first-line supervisors with advanced skill in the area of report writing. They will refresh and enhance their skills developed in the basic core course.
Note: Registration will be held during the first hour of the first class meeting.
Hours: 8 lecture
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B71H Transportation/Escape Procedures
0.2 unit
Description: Intended for peace officers, correctional officers, juvenile institutions staff, and probation officers. Introduces students to various modes of transportation of adult and juvenile inmates. Includes proper use of restraints and proper searching techniques. Covers risks and techniques to prevent escapes. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 6.5 lecture, 1.5 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B71I Violence in the Workplace
0.2 unit
Description: A discussion of fatal and nonfatal violence in the workplace to determine the focus needed for prevention. Emphasis made on changes to help minimize or remove the risk of workplace violence. Meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 8 lecture
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B71J Rights of Prisoners
0.2 unit
Description: An introduction and discussion of the rights and privileges that inmates have while they are incarcerated. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

CADM B71K Employee Post Trauma
0.2 unit
Description: Intended for people working in corrections. Covers basic assessment tools, methods of coping, as well as tools and skills to ensure uniform consistency, avoid confusion, follow due process requirements, and create a positive behavior change among inmates. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.
Hours: 6 lecture, 2 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.
to facilitate post traumatic recovery. Course meets the Standards and Training for Corrections Program.

Hours: 6 lecture, 2 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B71Q Liability Issues and Courtroom Demeanor
0.2 unit
Description: Intended for people working in corrections. An introduction to the legal liabilities and responsibilities of corrections personnel while at work and expectancies when called to testify in a court of law. Other topics include: identification of adverse employees, insufficient training, and negligent supervision among others. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 8 lecture
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B71R Prison Rape Elimination Act (PREA)
0.2 unit
Description: Provides the skills necessary to investigate complaints, threats, or signs of sexual assault/rape against inmates. Course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 4 lecture, 4 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B72 Chemical Agents
0.2 unit
Description: Intended for peace officers, correctional officers, juvenile institutions staff and probation officers. Provides the required competencies and certification for the use of chemical agent sprays. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 6 lecture, 2 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B73 Basic Baton Course
0.2 unit
Description: Provides students with the practical, safe, legal and technical aspects of the use of the police baton. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Note: Registration will be held during the first hour of the first class meeting.

Hours: 2 lecture, 6 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B74 Weaponless Defense and Control Tactics

0.2 unit
Description: Provides training to law enforcement, corrections and security officers to perform their daily tasks with less danger to themselves and to increase their ability to control suspects and prisoners in a humane and lawful manner. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Note: Registration will be held during the first hour of the first class meeting.

Hours: 2 lecture, 6 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B75 Surviving Edged Weapons
0.2 unit
Description: Provides training to law enforcement, corrections staff and security officers. Teaches responses to the mounting threat of knife culture offenses. Topics covered include safe positioning, communicating commands to inmates, how to assess an edged weapon assailant, evasive defensive tactics and disarming techniques. This course meets the training requirements as set forth by the Corrections Standards Authority for counties participating in the Standards and Training for Corrections Program.

Hours: 3 lecture, 5 laboratory
Repeat: unlimited
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

CADM B76 Basic Firearms Familiarization
0.1 unit
Description: Designed to give the first-time shooter hands-on experience as well as knowledge of the operation of a handgun and range safety. Students will engage in the use of firearms, which will include handgun familiarization; safety; care, cleaning and storage; firearms range qualification.

SPECIAL NOTE: Per Penal Code section 13511.5 students must obtain written clearance from the California Department of Justice verifying that they are not prohibited from possessing firearms.

Note: Registration will be held during the first hour of the first class meeting.

Hours: 1.5 lecture, 2.5 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B77 Intermediate Firearms Course
0.4 unit
Description: Designed to expand upon the skills and knowledge of firearms familiarity and range safety. Students will engage in the use of firearms, which will include safe handling; care, cleaning and storage; firearms range qualification.

SPECIAL NOTE: Per Penal Code section 13511.5, students must obtain written clearance from the California Department of Justice verifying that they are not prohibited from possessing firearms.

Hours: 8 lecture, 8 laboratory
Repeat: unlimited
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

CADM B78 Less Lethal/Specialty Impact Weapons
0.2 unit
Description: Provides training to law enforcement, corrections and security officers in the proper, safe, legal, technical and practical
use of less lethal/specialty impact weapons. A demonstration of such weapons and munitions will be conducted. Course meets the training requirements as set forth by the Corrections and Standards Authority for counties participating in the Standards and Training for Corrections Program.

**Hours:** 2 lecture, 4 lab, 4 supervised tutoring

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.

### CADM B79 Emergency Response Team Training

**1.5 units**

**Description:** Provides training for newly appointed officers to a Correctional Emergency Response Team (CERT). Covers the duties of a CERT team member including transport of high risk inmates, extracting uncooperative prisoners from their cells, searches, high profile security, barricaded persons, mass arrest and responding to hostages situations. Course meets the training requirements as set forth by the Corrections Standards Authority for countries participating in the Standards and Training for Corrections Program.

**Hours:** 24 lecture, 56 laboratory

**Repeat:** unlimited

**CCS:** Occupational Education

**Transferable:** Not degree applicable. Not transferable.

### Criminal Justice Courses

#### CRIM B1 Introduction to Criminal Justice

**3 units**

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** An overview of the American criminal justice system and its sub-systems; roles and role expectations of criminal justice professionals; theories of crime causation, punishment and rehabilitation; ethics, and multicultural awareness.

**Hours:** 54 lecture

**CCS:** Credit Course

**C-ID:** AJ 110/SOCI 160

**Transferable:** UC, CSU and private colleges; CSU GE D.10; BC GE D.2

#### CRIM B2 Criminal Law

**3 units**

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Historical development, philosophy of law and constitutional provisions, definitions, classification of crimes and their application to the criminal justice system, legal research, review of case law, methodology and concepts of law as a social force. Explores crimes against persons, property, and the state as a social, religious, and historical ideology.

**Hours:** 54 lecture

**CCS:** Occupational Education

**C-ID:** AJ 120

**Transferable:** UC, CSU and private colleges

#### CRIM B3 Introduction to Evidence

**3 units**

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Origin, development, philosophy and constitutional basis of the law of evidence; constitutional and procedural considerations affecting arrest, search and seizure, kinds of degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies reviewed from a conceptual level.

**Hours:** 54 lecture

**CCS:** Occupational Education

**C-ID:** AJ 212

**Transferable:** UC, CSU and private colleges

### CRIM B4 Constitutional Criminal Procedure

**3 units**

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Legal processes from pre-arrest, arrest through trial, sentencing and correctional procedures; a review of the history of case and common law; conceptual interpretations of law as reflected in court decisions; a study of case law methodology and case research as the decisions impact upon the procedures of the justice system.

**Hours:** 54 lecture

**CCS:** Credit Course

**C-ID:** AJ 122

**Transferable:** UC, CSU and private colleges

### CRIM B5 Community Relations

**3 units**

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. The evolving nature of multiculturalism; Multicultural populations; Managing/Policing diverse populations in correctional settings. Topics may include the consensus and conflicting values in Cultural, Religion, and Law.

**Hours:** 54 lecture

**CCS:** Credit Course

**C-ID:** AJ 160

**Transferable:** UC, CSU and private colleges; CSU GE D.10; BC GE D.2

### CRIM B8 Criminal Investigation

**3 units**

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Fundamentals of criminal investigation; investigator skill requirements; modus operandi determination; the collection, identification and preservation of physical evidence; crime scene investigation; interviews and interrogations; sources of information; surveillance; field note-taking and report writing; courtroom preparation; and the investigation of specific crimes.

**Hours:** 54 lecture

**CCS:** Occupational Education

**C-ID:** AJ 140

**Transferable:** UC, CSU and private colleges

### CRIM B9 The Juvenile Justice System

**3 units**

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Techniques of handling juvenile offenders and victims; prevention and suppression of delinquency; diagnosis and referral; organization of community resources; juvenile law and juvenile court procedures.

**Hours:** 54 lecture

**CCS:** Credit Course

**C-ID:** AJ 220
CRIM B10 Organized Crime
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Interrelations of organized crime to the community; impact of covert criminal activities upon the social structure; symptoms of organized crime activity, i.e. narcotics and white collar crime; political influences in the legal system; and management of crime control units.
Hours: 54 lecture
C-ID: AJ 150
Transferable: CSU and private colleges

CRIM B12 Forensic and Scientific Aspects of Evidence
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: The examination and evaluation of evidence using scientific principles and procedures for use in a legal setting including forensic (autopsy), entomology, anthropology, trace evidence (hair and fiber), fingerprints, serology, ballistics, and DNA. Emphasis on the importance of forensic evidence and science to exonerate the innocent as well as to convict the guilty.
Hours: 54 lecture
C-ID: AJ 200
Transferable: CSU and private colleges

CRIM B21 Introduction to Correctional Administration
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A survey of the total ‘correctional cycle’ and the relationships of its components. Included are: historical, theoretical and philosophical explanations of criminal behavior; statistics and research findings; employment opportunities; employment requirements.
Hours: 54 lecture
C-ID: AJ 200
Transferable: CSU and private colleges

CRIM B22 Institutional Treatment and Supervision of Offenders
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A survey of the basic knowledge and skills required of corrections personnel including treatment and supervision of offenders; programs, procedures, legal issues and research in the correctional setting.
Hours: 54 lecture
C-ID: AJ 200
Transferable: CSU and private colleges

CRIM B23 Fundamentals of Interviewing and Counseling
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A survey of the basic theories and techniques employed in interviewing and counseling by the correctional worker; traces the development of the meaningful relationship between client and caseworker; explores the various types of counseling employed with a correctional relationship, including group counseling.
Hours: 54 lecture
C-ID: AJ 250
Transferable: CSU and private colleges

CRIM B24 Probation, Parole and Community Corrections
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Theory and techniques of probation and parole supervision, including historical development with emphasis on recent programs, research, and development in the field.
Hours: 54 lecture
C-ID: AJ 250
Transferable: CSU and private colleges

CRIM B50 Criminal Justice Report Writing
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Emphasizes the practical aspects of gathering, organizing, and preparing written reports for correctional activities on local, state, and federal levels. Covers techniques of communicating facts, information, and ideas effectively in a simple, clear and logical manner for various types of criminal justice system reports, letters, memos.
Hours: 54 lecture
C-ID: AJ 250
Transferable: CSU and private colleges

CRIM B55 Special Topics in Criminal Justice
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Contemporary issues and controversies associated with crime and the criminal justice system are among the special topics to be explored.
Hours: 54 lecture
C-ID: AJ 250
Transferable: Associate Degree only. Not transferable.

CRIM B60 Legal Aspects of Corrections
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A survey of legal issues in the corrections environment, the civil rights of prisoners and responsibilities and liabilities of corrections officials. The historical framework, concepts and precedents that guide correctional practice.
Hours: 54 lecture
C-ID: AJ 250
Transferable: Associate Degree only. Not transferable.

Crop Science Courses

CRPS B1 Principles of Crop Production
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
CRPS B10 Plant Biology
4 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer. Mathematics - two levels prior to transfer.
Description: An introductory course covering the fundamental principles of plant science with emphases on structure, function, reproduction, and development of seed plants. The principles will be related to the practices of applied plant biology in crop production, forestry, and horticulture.
Note: Not open to students who have successfully completed BIOL B10.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 5.B; IGETC 5.C; CSU GE B.2; CSU GE B.3

CRPS B48WE Occupational Work Experience
1-8 units
Prerequisites: Declared major or occupational goal and evaluation of student's qualifications and objectives.
Description: College credit for crop science related learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student. Occupational work experience credit may accrue at the rate of 1 to 8 units per semester for a total of sixteen units, and students must work 75 paid hours or 60 non-paid hours per unit. Repetition allowed per Title 5 §55253.
Hours: Non-paid 60 hours for each 1 unit (60 - 480). Paid 75 hours for each 1 unit (75 - 600).
CCS: Credit Course
Transferable: CSU and private colleges

Dance Courses
DANC B6BLB Beginning Ballet (PHED B6BLB)
1 unit
Description: Coeducational beginning ballet course, includes proper warm-up exercise, technical skills and terminology.
Hours: 54 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE E

DANC B6JD Jazz Dance (PHED B6JD)
1 unit
Description: Fundamental Jazz techniques and fundamental terminology of ballet as they relate to jazz dancing; including warm-up exercises for the preparation of the human body as an instrument for dance. Different styles and rhythms of jazz dance and music for jazz dance will be introduced.
Note: Not open to students who have completed PHED B6JD.
Hours: 54 laboratory
CCS: Credit Course
Transferable: UC, CSU, and private colleges.

Earth Science Courses
ERSC B10 Introduction to Earth Science
3 units
Prerequisites: Reading - one level prior to transfer.
Description: Introduction to the fundamentals of Earth Science, including the solid Earth, atmosphere, hydrosphere, and Earth's place in the universe. Investigations include interactions between Earth's systems including the rock cycle, plate tectonic cycle, weathering cycle, hydrologic cycle, and global climate. Two Saturday field trips are optional.
### Economics Courses

**ECON B1 Principles of Economics-Micro**

3 units

**Prerequisite:** MATH BA/B60 or equivalent introduction to algebra course with a grade of ‘C’ or better or Mathematics – one level prior to transfer.

**Recommended:** Reading - one level prior to transfer, writing – one level prior to transfer, and MATH BD/B70.

**Description:** An introductory course focusing on microeconomic decision-makers. Topics include scarcity, specializations, and trade, market equilibrium, elasticity, production and cost theory, market structures, factor markets, and market failure.

**Hours:** 54 lecture

**CCS:** Liberal Arts/Science

**C-ID:** ECON 201

**Transferable:** UC, CSU and private colleges; IGETC 5.C; CSU GE B.3; BC GE B.1

**ECON B2 Principles of Economics-Macro**

3 units

**Prerequisite:** MATH BA/B60 or equivalent introduction to algebra course with a grade of ‘C’ or better or Mathematics – one level prior to transfer.

**Recommended:** Reading - one level prior to transfer, writing – one level prior to transfer, and MATH BD/B70.

**Description:** An introductory course focusing on macroeconomic analysis. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics, and economic growth.

**Hours:** 54 lecture

**CCS:** Liberal Arts/Science

**C-ID:** ECON 202

**Transferable:** UC, CSU and private colleges; IGETC 5.C; CSU GE D.2; BC GE D.2

### Education Courses

**EDUC B24 Early Field Experience for Elementary Teachers**

3 units

**Recommended:** Writing - one level prior to transfer.

**Description:** This course introduces students to the concepts and issues related to teaching diverse learners in today’s contemporary schools, Kindergarten through grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California’s content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California’s diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher.

**Hours:** 54 lecture

**CCS:** Liberal Arts/Science

**C-ID:** EDUC 200

**Transferable:** UC, CSU and private colleges

### Electronics Technology Courses

**ELET B1 Basic Electronics (DC and AC)**

4 units

**Recommended:** Reading - one level prior to transfer.

**Description:** Introduction to electricity and electronics including basic components, electronic circuit calculations, basic electronic test equipment use, electrical measurement, relays and ladder diagrams, alternating current (AC) circuits, and electronic schematic diagrams.

**Hours:** 54 lecture, 54 laboratory

**CCS:** Occupational Education

**Transferable:** CU and private colleges

**ELET B4 Computer Integrated Manufacturing**

3 units

**Prerequisites:** ELET B5 with a grade of ‘C’ or better.

**Recommended:** Reading - one level prior to transfer.

**Description:** Introduction to industrial automation technologies and the procedures utilized when troubleshooting automated control systems. Topics include programmable logic controllers (PLC), machine control, industrial robots, barcode readers, material handling systems, and Ethernet communications.

**Note:** Not open to students who have completed MFGT B4 or MFGT B50.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Credit Course

**Transferable:** CU and private colleges

**ELET B5 Programmable Logic Controllers**

3 units

**Recommended:** Reading - one level prior to transfer.

**Description:** The function and application of programmable logic controllers. Students will become familiar with the programming of Allen Bradley SLC-500 series controllers with RSLogix software. Topics covered include bit-level input and output instructions, timers, counters, latches, documentation, and troubleshooting.

**Note:** Not open to students who have taken the equivalent course, MFGT B5.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education
### ELET B6 Analog and Digital Electronics

**3 units**

**Prerequisites:** ELET B1 with a grade of ‘C’ or better.

**Recommended:** Reading - one level prior to transfer.

**Description:** Applications of analog and digital electronic circuits and systems. Content includes: semiconductor components, analog circuits (power supplies, amplifiers, and oscillators), digital electronic circuits (logic gates, sequential logic circuits), digital signal processing (A/D and D/A conversion).

**Note:** Not open to students who have taken ELET B9 and ELET B12.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**Transferable:** CSU and private colleges

### ELET B55A Electric Motors - Controls

**4 units**

**Prerequisites:** ELET B1 with a grade of ‘C’ or better.

**Recommended:** Reading - one level prior to transfer.

**Description:** Basic principles, applications, and configuration of direct current and alternating current motors and generators, motor starters, basic motor control circuitry and applications, and an introduction into variable frequency motor drives (VFDs).

**Hours:** 54 lecture, 54 laboratory

**Repeat:** 1

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

### ELET B56 Instrumentation and Process Control

**3 units**

**Prerequisites:** ELET B1 with a grade of ‘C’ or better.

**Recommended:** Reading - one level prior to transfer.

**Description:** Basic principles of process instrumentation and control. Topics include: level, pressure, flow, and level measurement, final control elements, piping and instrument diagrams and tags, PID controller programming, and basic control algorithms.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

### ELET B58 Advanced Programmable Logic Controllers

**3 units**

**Prerequisites:** ELET B5 with a grade of ‘C’ or better.

**Description:** The function and application of programmable logic controllers. Students will become familiar with the programming of Allen Bradley Control Logix series controllers with RSLogix 5000 software, providing all of the basics of using the Rockwell Automation Control Logix platform of PLCs. It will allow students to be involved with either maintenance, or engineering of control systems and machinery with the latest technology from Rockwell Automation. Students will have both theory and lab time, learning how to put a system together, understanding the memory and data structure of the PLC, and writing simple programs. Documenting the written program utilizing the features of the programming software as well as troubleshooting techniques will also be emphasized throughout the course.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

### ELET B61 Telecommunications

**3 units**

**Prerequisites:** ELET B1 with a grade of ‘C’ or better.

**Recommended:** Reading - one level prior to transfer.

**Description:** Elements of residential and commercial phone systems, electronic communications “basics,” transmission line characteristics, fiber-optic cabling and systems, and other non-radio-based communication topics will be covered in this course.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

### ELET B62 Radio Communications

**3 units**

**Prerequisites:** ELET B1 with a grade of ‘C’ or better.

**Recommended:** Reading - one level prior to transfer.

**Description:** Introduction to the basic circuits and systems used for RF communications systems, including microwave and satellite communications, two-way radio systems, AM, FM, NBFM, and SSB modulation, antenna systems, and transmission lines.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

### ELET B63 Electronic Systems Installation

**3 units**

**Prerequisites:** ELET B1 with a grade of ‘C’ or better.

**Recommended:** Reading - one level prior to transfer.

**Description:** Electronic System Installation covers the design, installation, integration, and certification of residential low-voltage wiring systems, such as: telephone, data communications, video systems, cable and satellite systems, audio systems, home automation, security systems, and other integrated home technologies. Hands-on installation, testing, and certification of these systems will occur during the lab portion of this course. Students will be prepared for residential low-voltage industry certifications.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

### ELET B70 Mechanical Systems

**3 units**

**Recommended:** Reading - one level prior to transfer.

**Description:** Introduction to machinery and machining processes, essential elements of mechanical systems, mechanical drives (gears, belts and pulleys, clutches), mechanical hardware, bushings, bearings, lubrication systems, basic properties of materials, hydraulics and pneumatics, preventive maintenance, basic hand and power tools, and basic precision dimensional measurement.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

### Emergency Medical Technician Courses

#### EMTC B10 Paramedic 1

**6 units**

**Prerequisites:** Limitation on enrollment, acceptance into the Paramedic Program.

**Corequisite:** EMTC B11

**Description:** This course introduces the student to the roles and responsibilities of the Paramedic within the Emergency Medical System. The student will be expected to apply basic concepts of anatomy, pathophysiology, pharmacology, patient assessment, the health and safety of the paramedic, documentation, and medical
EMTC B11 Paramedic Skills Lab 1
1 unit
Prerequisites: Limitation on enrollment, acceptance into the Paramedic Program and possess a high school diploma or general education equivalent and possess a current EMT certificate or NREMT-Basic registration or possess a current AEMT certificate in the State of California or be currently registered as an EMT-Intermediate with the NREMT and possess a current basic cardiac life support (CPR) card equivalent to the current American Heart Association's Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care at the healthcare provider level.
Corequisite: EMTC B10
Description: The focus of this skills lab course is to allow the student hands-on practice as well as to test for competency in patient assessment, medication administration, airway management, and cardiology. The topics taught in this course will be coordinated to align with the weekly lessons taught during lecture in order to meet the performance objectives of the program. This lab course is hosted in a simulation lab and is the corequisite for Paramedic 10 and Paramedic 12.
Hours: 54 laboratory
CSS: Credit Course
Transferable: CSU and private colleges

EMTC B12 Paramedic 2
6 units
Prerequisites: Limitation on enrollment, acceptance into the Paramedic Program.
Corequisite: EMTC B11
Description: This course includes the foundational material necessary to assess and manage patients in need of prehospital advanced life support at the paramedic level. Topics include: Prehospital Pharmacology, Cardiology, and Airway Management.
Hours: 108 lecture
CSS: Credit Course
Transferable: CSU and private colleges

EMTC B13 Paramedic 3
6 units
Prerequisites: Limitation on enrollment, acceptance into the Paramedic Program and successful completion of EMTC B10, EMTC B11, and EMTC B12 with a minimum GPA of 80%.
Corequisite: EMTC B14
Description: This course builds upon previous paramedic content and introduces the basic concepts of gastroenterology, genitourinary, hematology, non-traumatic musculoskeletal conditions, toxicology, psychology, medical ailments of the head, eyes, ear, nose, and throat, pulmonology, endocrinology, immunology, neurology, and communicable diseases.
Hours: 108 lecture
CSS: Credit Course
Transferable: CSU and private colleges

EMTC B14 Paramedic Skills Lab 2
1 unit
Prerequisites: Limitation on enrollment, acceptance into the Paramedic Program.
Corequisite: EMTC B13
Description: The focus of this course is to build upon the knowledge gained in the first semester paramedic classes and to prepare the student for real hands-on experience in the clinical setting. This course tests for competency in patient assessment, medication administration, airway management, cardiology, medical emergencies and traumas. The topics taught in this course will be coordinated to align with the weekly lessons taught during lecture in order to meet the performance objectives of the program.
Hours: 108 lecture
CSS: Credit Course
Transferable: CSU and private colleges

EMTC B15 Paramedic 4
6 units
Prerequisites: Limitation on enrollment, acceptance into the Paramedic Program.
Corequisite: EMTC B14
Description: This course builds upon the content from the first semester paramedic courses and introduces the basic concepts of shock, traumas/burns, environmental emergencies, geriatrics, abuse, home health/special needs, ambulance operations, and weapons of mass destruction, Hazmat, bio-terrorism, and the incident command system.
Hours: 108 lecture
CSS: Credit Course
Transferable: Associate Degree only. Not transferable.

EMTC B16 Paramedic Clinical Lab
3.5 units
Prerequisites: Limitation on enrollment, acceptance into the Paramedic Program and EMTC B15 successful completion (within six months) of paramedic didactic courses with an 80% or higher GPA.
Description: This course involves clinical experience in the hospital setting enabling the paramedic student to utilize theory and practice learned during the didactic phase. The clinical rotation puts an emphasis on patient assessments and utilization of paramedic skills in the hospital setting under the direct supervision of an RN and/or MD as the clinical preceptor.
Hours: 189 laboratory
CSS: Credit Course
Transferable: Associate Degree only. Not transferable.

EMTC B17 Paramedic Field Internship
10 units
Prerequisites: Limitation on enrollment, acceptance into the Paramedic Program and EMTC B16 successful completion (within six months) of EMTC B30 with an 80% or higher GPA.
Description: This is the final course of the paramedic program. Field training is performed in a 911 system on an advanced life support ambulance under the direct supervision of a qualified paramedic preceptor. Field training continues the refinement of learned skills. It also advances student understanding by introducing them to a wide variety of prehospital emergencies in the form of on-the-job training.
Hours: 540 laboratory
CSS: Credit Course
Transferable: CSU and private colleges

EMTC B50 Emergency Medical Technician-1
8 units
Prerequisites: Limitation on Enrollment, Student must be 18 years of age by the completion date of the course. Mandatory physical examination/immunizations and fit testing must be completed 2 weeks after the start of the course. Costs of meeting health requirements are paid by the student. Failure to meet these
requirements will result in student ineligibility for clinical rotations. Students must have a copy of a current BLS (American Heart Association Health Care Provider) card.

**Recommended:** MEDS B60

**Description:** Provides foundational skills and assessment techniques to care for an ill or injured person in the pre-hospital setting. Closely follows state regulations for EMT-1 training and leads to certification at the local, county, and state level. Required for all ambulance personnel and appropriate for many other first responders such as law enforcement and fire personnel. The student must meet health requirements to participate in the laboratory section of the course. Any expenses involved in meeting the health requirements are the student’s expense. Mandatory physical examination/immunizations will be required within 2 weeks of the beginning of the course and are at the student’s expense. Failure to meet these requirements will result in student ineligibility for clinical objectives.

**Materials Fee:** $27.00

**Hours:** 135 lecture, 27 laboratory

**CCS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

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**ENGR B17L Electric Circuit Laboratory**

1 unit

**Prerequisites:** ENGR B17 with a grade of ‘C’ or better, may be taken concurrently.

**Description:** An introduction to the construction and measurement of electrical circuits. Basic use of electrical test and measurement instruments including multimeters, oscilloscopes, power supplies, and function generators. Use of circuit simulation software. Interpretation of measured and simulated data based on principles of circuit analysis for DC, transient, and sinusoidal steady-state (AC) conditions. Elementary circuit design. Practical considerations such as component value tolerance and non-ideal aspects of laboratory instruments. Construction and measurement of basic operational amplifier circuits.

**Hours:** 54 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges

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**ENGR B19C Introduction to Programming Concepts and Methodologies for Engineers**

3 units

**Prerequisites:** MATH B1B with a grade of ‘C’ or better

**Description:** The purpose of this course is expose students to (1) the fundamental concepts of procedure oriented programming, (2) associated abstraction mechanisms and design processes, (3) the interface of software with the physical world (e.g., the use of sensors), and (4) the application of programming concepts to numerical analysis techniques. This course utilizes the C/C++ programming language.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges

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**ENGR B24 Engineering Graphics and Descriptive Geometry**

3 units

**Prerequisites:** MATH B1B with a grade of ‘C’ or higher.

**Description:** This course covers the principles of engineering drawings in visually communicating engineering designs and an introduction to computer-aided design (CAD). Topics include the development of visualization skills; orthographic projections; mechanical dimensioning and tolerancing practices; and the engineering design process. Assignments develop sketching and 2-D and 3-D CAD skills. The use of CAD software is an integral part of the course.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges

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**Engineering Courses**

**ENGR B17 Introduction to Electrical Circuits**

3 units

**Prerequisites:** PHYS B4B with a grade of ‘C’ or better.

**Recommended:** MATH B6d (may be taken concurrently).

**Description:** Principles and techniques of D.C. and A.C. circuit analysis, including Kirchhoff’s laws, mesh and nodal analysis, Thévenin’s and Norton’s theorems, impedance, phasors, frequency response, power calculations, natural and forced responses, analog building blocks, operational amplifiers, and Laplace transforms.

**Hours:** 54 lecture

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges

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**ENGR B36 Engineering Mechanics-Statics**

3 units

**Prerequisites:** MATH B6B and PHYS B4A with grades of ‘C’ or better.

**Description:** A first course in engineering mechanics: properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia.

**Hours:** 54 lecture

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges
ENGR B37 Engineering Mechanics-Dynamics
3 units
Prerequisites: ENGR B36 with a grade of ‘C’ or better.
Description: Fundamental principles of motions of particles and rigid bodies and their application to engineering problems. Velocity, acceleration, relative motion, work, energy, impulse and momentum. Mathematical modeling and analysis of mechanical systems.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGR 230
Transferable: UC, CSU and private colleges

ENGR B40 Surveying
3 units
Prerequisite: MATH B1B with a grade of ‘C’ or better.
Description: The course applies theory and principles of plane surveying: office computations and design; operation of surveying field equipment; and production of engineering plans/maps. Topics include distances, angles, and directions; differential leveling; traversing; property/boundary surveys; topographic surveys/ mapping; volume/earthwork; horizontal and vertical curves; land description techniques; and GPS. Extensive field work using tapes, levels, transits, theodolites, total stations, and GPS.
Hours: 36 lecture, 54 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges

ENGR B45 Properties of Materials
3 units
Prerequisites: CHEM B2A and PHYS B2A and MATH B1B or CHEM B1A and PHYS B4A and MATH B1A each with a grade of ‘C’ or better.
Description: Internal structure of engineering materials. Characteristics of single and multiple phase metals; polymers, ceramics and composite materials. Mechanical, thermal, chemical and electrical behavior of engineering materials. Laboratory investigation of the physical properties of metals, wood, soils, concrete, and polymers.
Hours: 36 lecture, 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

ENGR B47 Introduction to Engineering and Design
2 units
Description: Introduction to the engineering profession and the engineering design process. Explores the branches of engineering, the functions of an engineer; and the industries in which engineers work. Explains the engineering education pathways and explores the effective strategies for students to reach their full academic potential. Presents an introduction to the methods and tools of engineering problem solving and design including the interface of the engineer with society and engineering ethics. Develops communication skills pertinent to the engineering profession.
Hours: 18 lecture, 54 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges

ENGR B60 Introduction to Robotics
3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to the basic concepts and control application of robotics. The operation of different types of end actuators is covered along with robotic microcontrollers and basic system sensors. Basic programming techniques are covered.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

English Courses

ENGL B1A Expository Composition
3 units
Prerequisites: English Level 6 – Transfer or ENGL B50 or ENGL B53 or ENSL B50/EMLS B50 with a grade of ‘C’ or better.
Description: Critical reading, writing, and thinking. Students will critically read and write primarily expository and argumentative texts that respond to a variety of rhetorical situations and contexts and incorporate college-level research. Minimum 6,000 words formal writing.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 100
Transferable: UC, CSU and private colleges; IGETC 1A; CSU GE A.2; BC GE A.2

ENGL B1B Introduction to Types of Literature
3 units
Prerequisites: ENGL B1A with a grade of ‘C’ or better.
Description: Introductory course in literature, comprising critical analysis of notable works in prose fiction, drama, and poetry, with emphasis on evaluating the logical relationship between form and content and on formulating criteria for artistic judgment. Continued instruction in the communication skills of writing, listening, and discussing.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: ENGL 120
Transferable: UC, CSU and private colleges; IGETC 3B; CSU GE A.3; CSU GE C.2; BC GE C.2

ENGL B2 Advanced Composition and Critical Thinking
4 units
Prerequisites: ENGL B1A with a grade of ‘C’ or better.
Description: An interdisciplinary team-taught course. Expository writing, reading of expository and literary works; study of the most important ideas in great works in disciplines such as philosophy, natural science, literature, and the social and behavioral sciences; survey of methods of critical thinking and advanced composition.
Hours: 72 lecture
CCS: Liberal Arts/Science
C-ID: ENGL 105
Transferable: UC, CSU and private colleges; IGETC 1B; CSU GE A.3; BC GE A.2

ENGL B3 Argumentative Writing and Critical Thinking Through Literature
4 units
Prerequisites: ENGL B1A with a grade of ‘C’ or better.
Description: This course offers instruction in argumentative, critical, and analytical writing, critical thinking, research strategies, information literacy, and proper documentation through the study of literary works from major genres, while developing students’ close reading skills and promoting an appreciation for the aesthetic qualities of literature.
Hours: 72
CCS: Credit Course
C-ID: ENGL 110
Transferable: UC, CSU and private colleges; IGETC 1B; CSU GE A.3; BC GE A.2
ENGL B5A Survey of English Literature
3 units
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: A historical survey of English literature, emphasizing critical reading of representative works from Beowulf through the eighteenth century. Recommended for students whose major or minor is English and for students who desire to extend their knowledge of the literary tradition.
Hours: 54 lecture
CCS: Credit Course
CI-D: ENGL 160
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

ENGL B5B Survey of English Literature
3 units
Prerequisite: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: A historical survey of English literature, emphasizing critical reading of representative works from eighteenth century through the twenty-first century. Recommended for students whose major or minor is English and for students who desire to extend their knowledge of the literary tradition.
Hours: 54 lecture
CCS: Liberal Arts/Science
CI-D: ENGL 165
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

ENGL B10 Introduction to Shakespeare
3 units
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: Study of the drama and sonnets of William Shakespeare. Recommended as an elective for majors in the humanities, history, or education. Historical information pertaining to Shakespeare and Elizabethan England will also be covered to increase students’ appreciation of the Bard’s accomplishments. Classroom discussions, oral presentations, and performance footage will provide further examples of the ongoing relevance of Shakespeare’s work today.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

ENGL B20A Survey of World Literature
3 units
Prerequisite: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: A study of representative works of world literature in historical and cultural contexts, focusing on their aesthetic significance and the enduring human values which unite the different literary traditions. Covers antiquity to approximately 1650.
Hours: 54 lecture
CCS: Liberal Arts/Science
CI-D: ENGL 140
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

ENGL B21 African-American Literature
3 units
Prerequisite: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: A historical survey of major authors, works, genres, themes, and movements in African-American literature in America from colonial times to the present.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

ENGL B24 Latino/a Literature
3 units
Prerequisites: Reading - one level prior to transfer or ENGL B50 or ENGL B53 or ENSL B50/EMLS B50 with a grade of ’C’ or better.
Description: This course will study works written by Latinas/os in the United States and Latin America in order to discover the ways in which these works have interacted with specific cultures and contexts, from colonialism to the present.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

ENGL B25B Survey of World Literature
3 units
Prerequisites: Writing - 1 Level Prior to Transfer.
Recommended: ENGL B1A.
Description: A study of representative works of world literature in historical and cultural contexts, focusing on their aesthetic significance and the enduring human values which unite the different literary traditions. Covers approximately 1650 to present. Not open to students who have completed ENGL B20B.
Hours: 54 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

ENGL B27 The Bible as Literature
3 units
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: Interpretation and analysis of Old and New Testament genres: Narrative, poetry, drama, epistles, didactics, wisdom, and prophecy.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

ENGL B28 Classical Mythology
3 units
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: A study of classical myth, saga, and local legend, primarily Greek and Roman. Relates classical myths to historical and modern culture.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2
ENGL B30A Survey of American Literature
3 units
Prerequisites: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: Study of the most notable American authors from the colonial period to the American Civil War with emphasis on the intrinsic value of the literature.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 130
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

ENGL B30B Survey of American Literature
3 units
Prerequisite: Writing - one level prior to transfer.
Recommended: ENGL B1A
Description: Study of the most notable American authors from the second half of the 19th century to the present with emphasis on the intrinsic value of the literature.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

ENGL B33 Children's Literature
3 units
Prerequisite: Writing - one level prior to transfer or ENGL B50 or ENGL B53 or ENSL B50 / EMLS B50 with a grade of 'C' or better.
Recommended: ENGL B1A.
Description: This course introduces major works and develops students' reading and analytical writing skills while promoting an appreciation for the aesthetics, history, authors, genres, and themes of children's literature. Readings will include folklore, oral tradition, contemporary stories, illustrated books, poetry, and juvenile novels from a variety of cultures and critical perspectives.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges; BC GE C.2

ENGL B41A Introduction to Creative Writing
3 units
Prerequisite: ENSL B50 / EMLS B50 or ENGL B50 with a grade of 'C' or better.
Recommended: ENGL B1A.
Description: Introduction to the craft of creative writing of poetry, fiction, and other genres. Students will read, discuss, and analyze various literary works, and will produce and revise their own works. In addition, they will give and receive constructive criticism in a workshop environment.
Hours: 54 lecture
CCS: Credit Course
C-ID: ENGL 200
Transferable: CSU and private colleges

ENGL B50 Introduction to College Composition
4 units
Prerequisites: ENGL B60 or EMLS B60 with a grade of 'C' or better or Writing - one level prior to transfer.
Description: Emphasizes the writing of expository and argumentative essays and the comprehension and analysis of readings. Prepares transfer students for English B1a.
Hours: 72 lecture
CCS: Credit Course

ENGL B53 Reading, Reasoning, and Writing
4 units
Prerequisites: ACDV B68 / ACDV B65 or ENSL B70 / EMLS B70 with a minimum grade of 'C' or English Level 4.
Description: Emphasizes developing arguments and strengthening critical thinking, organizing, and reading and writing skills relevant to college work through a thematic approach. Prepares students for English B1a.
Note: For courses that list ENGL B50 as a prerequisite, either ENGL B50 or ENGL B53 with a grade of 'C' or better may be used.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

ENGL B60 Basic Writing Skills
4 units
Prerequisites: English Level 4 or ENSL B70 / EMLS B70 or ACDV B68 or ACDV B65 with a minimum grade of 'C'.
Description: Review and application of fundamentals of standard English. Emphasizes sentence, paragraph, and short essay writing.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

English for Multilingual Students

EMLS B50 Introduction to College Composition
4 units
Prerequisite: Writing - one level prior to transfer.
Description: Recommended for international and multilingual students who need to develop their skills in composition and persuasion as well as comprehension and analysis of reading. Stresses both organization and in-depth essay development as well as critical thinking. Prepares students for ENGL B1A.
Note: Not open to students who have completed ENSL B50 or ENSL B1.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B51 Advanced Reading
3 units
Prerequisite: Reading - one level prior to transfer
Description: Recommended for international and multilingual students who need to improve reading comprehension and build vocabulary in English. Emphasis is on identifying main ideas, summarizing, inferring, analyzing, drawing comparisons, and developing more advanced vocabulary by reading complex academic and literary texts. Prepares students for college level reading.
Note: Not open to students who have completed ENSL B52.
Hours: 54 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B52 Advanced Communication Skills
3 units
Prerequisite: Reading - one level prior to transfer
Description: Recommended for international and multilingual students who need prescriptive training in pronunciation, stress and intonation in spontaneous speech. Development of oral communication skills through formal presentations and debates. Analysis of lectures, arguments, and academic discussions.
Transferable: Not degree applicable. Not transferable.
EMLS B60 Basic Skills Writing
4 units
Prerequisite: Writing - two levels prior to transfer
Description: Recommended for international and multilingual students at the advanced level of English who require grammar and composition skills necessary to take essay exams, improve personal and professional writing, or prepare for EMLS B50 or ENGL B50.
Note: Not open to students who have completed ENSL B60.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B61 Intermediate Reading
4 units
Prerequisite: Reading - two levels prior to transfer
Description: Recommended for international and multilingual students who need to improve reading comprehension and build vocabulary in English. Emphasis is on identifying main ideas, summarizing, making inferences, and developing vocabulary using more complex academic reading selections than in EMLS B71.
Note: Not open to students who have completed ENSL B51 or ACDV B61 or ACDV B62.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B62 Intermediate Communication Skills
3 units
Prerequisite: Reading - two levels prior to transfer
Description: Recommended for international and multilingual students who need to improve communication and pronunciation skills. Emphasis is on critical listening skills, oral presentations, class discussions, and pronunciation practice.
Note: Not open to students who have completed ENSL B21.
Hours: 54 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B70 Grammar and Composition
4 units
Prerequisite: Writing - three levels prior to transfer
Description: Recommended for international and multilingual students at the high-intermediate level of English who require grammar and composition skills necessary to take essay exams, improve personal written communication, or prepare for EMLS B60.
Note: Not open to students who have completed ENSL B70 or ENSL B3.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B71 Basic Reading
4 units
Prerequisite: Reading - three levels prior to transfer
Description: Recommended for international and multilingual students who need to improve reading comprehension and build their vocabulary in English. Emphasis is on identifying main ideas, summarizing, making inferences, developing vocabulary, and using academic language.
Note: Not open to students who have completed ENSL B22.
Hours: 54 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

EMLS B72 Basic Communication Skills
4 units
Prerequisite: Reading - three levels prior to transfer
Description: Recommended for international and multilingual students who need to improve their listening and speaking skills in small groups as well as in larger settings. The focus is on improving pronunciation, intonation, rhythm, and stress patterns as well as listening comprehension in small group settings and classroom lectures.
Note: Not open to students who have completed ENSL B71CD.
Hours: 72 lecture
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

Fire Technology Courses

FIRE B1 Fire Protection Organization
3 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.
Description: Career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations offering the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. Field trips required.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B2 Principles of Fire and Emergency Services
Safety and Survival
3 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.
Description: This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B3 Fire Command, Strategy, & Tactics
3 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.
Description: This course will cover fire department organization, management, resources, and the use of those resources to control various types of emergencies. The course will also cover the incident command system, tactics, and strategies. This course also provides an introduction to the national incident management system.
Note: elective or degree credit.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

FIRE B4 Fire Behavior and Combustion
3 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.
**FIRE B5 Fire Prevention**

*Description:* Theory and fundamentals of how and why fires start, spread and are controlled; an in-depth study of fire chemistry and physics, fire burning characteristics of materials, extinguishing agents, and fire control techniques.  
*Hours:* 54 lecture  
*CCS:* Credit Course  
*Transferable:* CSU and private colleges

**FIRE B6 Fire Protection Equipment and Systems**

*Prerequisites:* FIRE B1 with a grade of ‘C’ or better.  
*Description:* Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention systems, fire investigation and fire safety education.  
*Hours:* 54 lecture  
*CCS:* Credit Course  
*Transferable:* CSU and private colleges

**FIRE B7 Building Construction for Fire Protection**

*Prerequisites:* FIRE B1 with a grade of ‘C’ or better.  
*Description:* The study of the components of building construction that relate to fire/life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at fires/collapse emergencies. The development and evolution of building and fire codes will be studied in relationship to past fires/collapses in residential, commercial, and industrial occupations.  
*Note:* elective credit only.  
*Hours:* 54 lecture  
*CCS:* Credit Course  
*Transferable:* CSU and private colleges

**FIRE B25A Wildland Fire Behavior**

*Description:* Provides the knowledge to understand wildland fire behavior at the supervisory level in the Incident Command System. Conforms to curriculum requirements of the National Wildfire Coordinating Group. Includes, but is not limited to, the material contained in S-290 Intermediate Fire Behavior.  
*Hours:* 54 lecture  
*CCS:* Occupational Education  
*Transferable:* CSU and private colleges

**FIRE B25B Wildland Firefighter Safety and Survival**

*Description:* Study of factors that lead to unsafe working conditions in wildland firefighting and procedures to limit risk. Emphasis is placed on avoiding situations and conditions which have resulted in the fire shelter deployments, injuries, and fatalities. The Ten Standard Fire Orders and the Eighteen Situations that Shout Watch Out are studied in detail. Course meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.  
*Hours:* 54 lecture  
*CCS:* Occupational Education  
*Transferable:* CSU and private colleges

**FIRE B25C Wildland Fire Operations**

*Prerequisites:* FIRE B1 with a grade of ‘C’ or better.  
*Description:* Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention systems, fire investigation and fire safety education.  
*Hours:* 54 lecture  
*CCS:* Credit Course  
*Transferable:* CSU and private colleges

**FIRE B25D Wildland Public Information Officer, Prevention, and Investigation**

*Prerequisites:* FIRE B1 with a grade of ‘C’ or better.  
*Description:* Presents the information necessary to understand the roles and functions of the Wildland Fire Information Officer, Wildland Fire Prevention Officer, and Wildland Fire Investigation Officer.  
*Hours:* 54 lecture  
*CCS:* Occupational Education  
*Transferable:* CSU and private colleges

**FIRE B25E Wildland Fire Logistics, Finance, and Planning**

*Prerequisites:* FIRE B1 with a grade of ‘C’ or better.  
*Description:* Presents the information necessary to understand the roles and functions of the Wildland Fire Information Officer, Wildland Fire Prevention Officer, and Wildland Fire Investigation Officer.  
*Hours:* 54 lecture  
*CCS:* Occupational Education  
*Transferable:* CSU and private colleges

**FIRE B26A S-200 Initial Attack Incident Commander (ICT 4)**

*Description:* Prepares the student to function as an initial attack incident commander at the ICT4 level in the incident Command System. Includes preparation, mobilization, size up, leading the initial attack, and initial attack strategy. Meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.  
*Hours:* 18 lecture  
*CCS:* Credit Course  
*Transferable:* CSU and private colleges

**FIRE B26D Interagency Incident Business Management**

*Prerequisites:* FIRE B1 with a grade of ‘C’ or better.  
*Description:* Prepares the student to function as an initial attack incident commander at the ICT4 level in the incident Command System. Includes preparation, mobilization, size up, leading the initial attack, and initial attack strategy. Meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.  
*Hours:* 18 lecture  
*CCS:* Credit Course  
*Transferable:* CSU and private colleges
Description: Provides knowledge to perform the tasks of the position in the Incident Command System (ICS) for which basic incident business management is required. Provides policy and direction for incident business management. Intended for students to pursue a career with a wildland fire suppression agency or for a specialty with a municipal fire control agency.

Hours: 18 lecture

Transferable: CSU and private colleges

FIRE B26E S-215 Fire Operations in the Wildland/Urban Interface
1.5 units

Description: Designed to meet the training needs for incident commanders (Type 4), strike team leaders, and company officers confronting wildland fire that threatens life, property, and improvements in the wildland urban interface. Course meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 27 lecture

Transferable: CSU and private colleges

FIRE B26G S-230 Crew Boss Single Resource
1.5 units

Description: This is a classroom course designed to produce student proficiency in the performance of duties associated with the single resource boss position from initial dispatch through demobilization to the home unit. Topics include operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization, and post-incident responsibilities.

Hours: 27 lecture

Transferable: CSU and private colleges

FIRE B26K S-244 Field Observer
1.5 units

Description: This course provides the student with the skills necessary to perform as a field observer (FOBS) and/or a fire effects monitor (FEMO). Topics include roles and responsibilities of the FOBS and FEMO; how to make observations and document those observations; how to produce hand drawn and GPS field maps; and how to navigate using a compass and GPS. The navigation unit has field exercises, and the final field exercise will total 8 hours. Meets National Wildfire Coordinating Group/California State Fire Marshal curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 27 lecture

Transferable: CSU and private colleges

FIRE B26M Display Processor
1 unit

Description: This course provides students with the skills necessary to perform as a display processor (DPRO). Topics include general roles and responsibilities and how to assist the situation unit leader with producing incident maps, inputs for the Incident Status Summary (ICS-209) and other incident products. Pre-course work, students need to read specific chapters in Basic Land Navigation

Transferable: Not transferable. Not degree applicable.

FIRE B27B 1-300 Incident Command System
1.5 units

Description: Provides description and detail of the organization and operation of the ICS. Covers management of resources, duties of all positions including the Air Operations organization, and examples of how the essential principles are used in incident and event planning. Meets the curriculum requirements of the National Wildfire Coordinating Group. Applicable to wildland fire management agencies and municipal fire departments. Offered as a National Wildfire Coordinating Group /State Fire Marshal CFSTES class.

Hours: 27 lecture

Transferable: CSU and private colleges

FIRE B28B L-280 Followership to Leadership
1 unit

Description: This training course is designed as a self-assessment opportunity for individuals preparing to step into a leadership role. The course combines classroom and lab (in the field) instruction, with students working through a series of problem solving events in small teams (Field Leadership Assessment Course).

Hours: 20 lecture

Transferable: CSU and private colleges

FIRE B29 S-212 Wildland Fire Chain Saws
2 units

Description: Prepares students to become a wildfire powersaw operator within the National Interagency Management System. Covers safety considerations, techniques of saw operation, maintenance, and repair. Wildland Fire Chain Saws (S-212) is identified training in the National Wildfire Coordinating Group Suppression/California State Fire Marshal Curriculum. Intended for students to pursue a career with a federal or state wildland fire management agency or as specialty training with a municipal/county fire agency.

Hours: 36 lecture

Transferable: CSU and private colleges

FIRE B30 RT130 Wildland Skill Refresher
2 units

Description: Annual fireline Safety Refresher Training is designed to provide up-to-date fireline safety information to anyone who will be working on the fireline. The RT130 class was developed to recognize hazards, mitigate risk, maintain safe practices, and reduce accidents and near misses on the fire ground.

Hours: 9 lecture, 81 laboratory

Transferable: Not transferable. Not degree applicable.

FIRE B50A Fire Command 2A-Command Tactics at Major Fires
2 units

Description: Concepts and methods for Chief Officers to understand complex fire ground operations. Stresses the multiple company response and the efficient use of human and material resources in
handling major structural fires. Accredited by the California Fire Service Training and Education System (CFSTES) for Chief Officer certification.

**FIRE B50B Fire Command 2B-Scene Management at Major Incidents**  
2 units  
**Description:** Management techniques for Chief Officers to control major fire disasters. Techniques in developing and writing plans for fire disaster control and in managing local disasters. Accredited by the California Fire Service Training and Education System (CFSTES) for Chief Officer certification.

**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Not transferable. Not degree applicable.

**FIRE B50C Fire Command 2C-High Rise Fire**  
2 units  
**Description:** Command and control techniques used at the scene of an emergency by fire company officers. Emphasizes decision making, the act of commanding, personnel and organization structures and pre-planning for effective command performance particularly related to high-rise building emergencies. Includes a review of the Incident Command System instituted by the State of California Fire Services.

**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Not transferable. Not degree applicable.

**FIRE B50D Fire Command 2D, Management of Large Scale Disasters**  
2 units  
**Description:** Essential management techniques for Chief Officers needed to control major disasters. Developing and writing plans for disaster control and managing local disasters emphasized. Accredited by the California Fire Service Training and Education System (CFSTES) for Chief Officer certification.

**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Certificate of Achievement only. Not transferable.

**FIRE B50E Fire Command 2E-Wildland Tactics**  
2 units  
**Description:** California’s wildland fire problem will be examined through wildland fire safety, weather effects, fuels, fire behavior, initial attack methods, using support equipment, including the use of topographic maps, strategy and tactics, and air attack operations. Accredited by the California Fire Service Training and Education System Chief Officer certification requirements.

**Hours:** 36 lecture, 4 laboratory  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

**FIRE B50F Fire Management 2A-Organizational Development and Human Relations**  
2 units  
**Prerequisites:** FIRE B51A with a grade of ‘C’ or better.  
**Description:** This course provides information on the foundations of 1) individual behavior, personality and emotions, motivational concepts, individual decision making; 2) group behavior; work teams, group dynamics, group communication, conflict and negotiations, power and politics, leadership and creating trust; and 3) organizational structure, human resources policies and practices, organizational culture, and organizational change and development. Accredited by the California Fire Service Training and Education System (CFSTES) for Chief Officer Certification.

**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Not transferable. Not degree applicable.

**FIRE B50G Fire Management 2B, Fire Service Financial Mgt**  
2 units  
**Description:** This course is designed to provide insight into the cyclical nature of budgeting and financial management. As a management course, the student will become familiar with essential elements of the financial planning, budget preparation, budget justification, and budget controls. Offered as a State Fire Marshal CFSTES class.

**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

**FIRE B50H Fire Management 2C - Personnel and Labor Relations**  
2 units  
**Description:** Provides a fire manager with knowledge and insight of personnel, human resources, diversity management, legal mandates, labor relations, and related areas. Accredited by the California Fire Service Training and Education System for Chief Officer certification.

**Hours:** 36 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

**FIRE B50I Fire Management 2D-Strategic Planning**  
2 units  
**Description:** Long-range fire protection planning. Emphasizes program planning, strategic planning, forecasting, systems analysis, systems design, research, networking policy analysis and plans and reports. Accredited by the California Fire Service Training and Education System for Chief Officer certification.

**Hours:** 36 lecture  
**CCS:** Credit Course  
**Transferable:** Not transferable. Not degree applicable.

**FIRE B50J Fire Management 2E-Ethics and the Challenge of Leadership**  
2 units  
**Description:** In this course, the participant will correlate personal core values and characteristics to ethical decisions and behaviors. In addition, the participant will explore ethical and principle-centered leadership, including ethical systems, ethical dilemmas, and ethical decision-making models. The participant will also examine challenges and develop strategies for leading in public safety organizations serving diverse and dynamic communities. The participant will use a variety of learning modalities including case studies, video analyses, and critical thinking scenarios to explore ethics and the challenges of leadership. Accredited by the State Fire Marshal as a CFSTES for Chief Officer certification.

**Hours:** 40 lecture
FIRE B51A Fire Management 1A
2 units
Description: Planning, operating and controlling the personnel functions necessary to become a company officer. Emphasizes training, counseling, managing the development of a firefighter, participating in departmental grievance procedures, managing discipline, morale, safety standards and diversity in the workplace. This course is one in a series of State Fire Marshal classes required for certification as a fire officer. This course is AA/AS degree applicable, but is not transferable to a four year college.
Hours: 40 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

FIRE B51B Fire Command 1A
2 units
Prerequisites: FIRE B1 with a grade of ‘C’ or better.
Description: This course provides an introduction to the principles of command, an overview of the concepts of command safety and the risk management process, preincident planning considerations, command considerations at structure fire incidents, Company Officer initial actions at an incident including the development of incident priorities, strategy, and tactics, information on the roles and responsibilities of a Company Officer for post-incident actions. Each student will have the opportunity to gain experience in a controlled environment through structure fire incident simulations.
Hours: 38 lecture, 2 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B51C Fire Command 1B
2 units
Prerequisites: FIRE B51B with a grade of ‘C’ or better.
Description: This class will provide information and knowledge in command and control techniques used at the scene of hazardous material incidents. Emphasizes acts of commanding, the authority or right to command, the personnel organization or area under incident commander and the performance requirements for Fire Service Officers.
Hours: 38 lecture, 2 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B51D Fire Prevention 1A
2 units
Description: Basic skills and knowledge necessary for Fire Prevention Officer Level I. Legal responsibilities and authority, Occupancy Classification and building construction, egress requirements, fire resistant assemblies, general fire safety provisions, and general principles procedures of fire inspections.
Hours: 40 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

FIRE B51E Fire Prevention 1B
2 units
Recommended: FIRE B51D with a grade of ‘C’ or better.
Description: Basic fire prevention information for company officers so they may respond to a variety of fire prevention situations in a professional and effective manner. Meets NFPA 1031 Fire Inspection Professional Qualifications and California State Board of Fire Services Standards for Fire Prevention Officer 1B.

FIRE B51F Fire Investigation 1A
2 units
Description: This course provides the participants with an introduction and basic overview of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire’s origin. Arson investigators will successfully carry out their responsibilities in arson detection and explosives investigation. Emphasizes essential elements of fire and explosives behaviors, types and use of laboratory services, and investigative responsibilities of an investigator at location of arson and explosives incidents. Meets P.O.S.T. certification requirements. Offered as a State Fire Marshal CFSTES class.
Hours: 40 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B51G Training Instructor 1A
2 units
Description: This is the first of a three-course series. Topics include methods and techniques for training in accordance with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching cognitive lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two student teaching demonstrations are required of each student.
Hours: 40 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B51H Training Instructor 1B
2 units
Description: This is the second of a three-course series. Topics include methods/techniques for training with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching psycho-motor lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two student teaching demonstrations are required of each student.
Hours: 40 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B51I Fire Prevention 1C
2 units
Description: Special hazards associated with flammable and combustible liquids and gases. Topics include bulk storage and handling, transportation of flammable gases and liquids. Meets NFPA 1031 Fire Inspection Professional Qualifications and California State Board of Fire Services Standards for Fire Prevention Officer 1
Hours: 36 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B51J Fire Investigation 1B
2 units
Description: Topics of discussion include the juvenile fire setter, report writing, evidence collection and preservation procedures. Course meets P.O.S.T. certification requirements.
FIRE B51K Fire Command 1C  
2 units  
**Description:** This course is designed around the responsibilities of the Company Officer at a wildland/urban interface incident. It will bring the structural Company Officer out of the city and into the urban/interface; in other words, from his or her comfort zone into an area that could very well be quite unfamiliar for Fire Service Officers.  
**Hours:** 32 lecture, 8 laboratory  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

FIRE B51L Fire Apparatus Driver Operator 1A  
2 units  
**Prerequisite:** FIRE B62 or FIRE B63 with a grade of ‘C’ or better and a California Class B driver’s license, fire fighter restricted.  
**Description:** This course provides the student with information on driver responsibilities, recognized standards, and related laws for fire apparatus reflecting current California Vehicle Code requirements and the 2009 NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. Topics include basic inspections, documentation, maintenance, and troubleshooting fire apparatus, and techniques on driving and positioning fire apparatus. Each student also has the opportunity to increase his or her driving skills during simulated driving conditions.  
**Hours:** 24 lecture, 16 laboratory  
**CCS:** Credit Course  
**Transferable:** Associate Degree only

FIRE B51M Fire Apparatus Driver/Operation 1-B  
2 units  
**Prerequisite:** California driver's license, Class A, B or C, with a fire fighter endorsement.  
**Description:** This course was developed to reflect the 2009 NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. This course provides the student with information on pump construction and theory of pump operations. Topics include methods for performing basic hydrdraulics and techniques on basic inspections, documentation, maintenance, and troubleshooting fire pumps. Each student also has the opportunity to increase his or her pumping skills during simulated pumping conditions.  
**Hours:** 24 lecture, 16 laboratory  
**CCS:** Credit Course  
**Transferable:** Not transferable. Not degree applicable.

FIRE B52A Company Officer 2A  
2 units  
**Description:** This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene.  
**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

FIRE B52 Company Officer 2B  
1 unit  
**Description:** This course provides information on general administrative functions, the implementation of department policies and procedures, and addresses conveying the fire department’s role, image, and mission to the public.  
**Hours:** 20 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

FIRE B52C Company Officer 2C  
2 units  
**Description:** This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause, securing the incident scene and preserving evidence.  
**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

FIRE B52D Company Officer 2D  
2 units  
**Description:** This course provides information on conducting incident size-up, developing and implementing an initial plan of action involving single and multi-unit operations for various types of emergency incidents to mitigate the situation following agency safety procedures, conducting pre-incident planning, and develop and conduct a post-incident analysis.  
**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

FIRE B52E Company Officer 2E  
2 units  
**Description:** This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports.  
**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

FIRE B52F Chief Fire Officer 3A  
1.5 units  
**Description:** This course provides students with a basic knowledge of the human resources requirements related to the roles and responsibilities of a Chief Fire Officer including developing plans for providing employee accommodation, developing hiring procedures, establishing personnel assignments, describing methods of facilitating and encouraging professional development, developing an ongoing education training program, developing promotion procedures, developing proposals for improving employee benefits, and developing a measurable accident and injury prevention program.  
**Hours:** 27 lecture  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

FIRE B52G Chief Fire Officer 3B  
1 unit  
**Description:** This course provides students with a basic knowledge of the budgeting requirements related to the roles and responsibilities of a Chief Fire Officer including developing a budget management system, developing a division or departmental budget, and describing the process for ensuring competitive bidding.
FIRE B52H Chief Fire Officer 3C
1 unit
Description: This course provides students with a basic knowledge of the administration requirements related to the roles and responsibilities of a Chief Fire Officer including directing a department record management system, analyzing and interpreting records and data, developing a model plan for continuous organizational improvement, developing a plan to facilitate approval, preparing community awareness programs, and evaluating the inspection program of the AHJ.
Hours: 24 lecture
CCS: Credit Status
Transferable: Associate Degree only. Not transferable.

FIRE B52J Chief Fire Officer 3D
1 unit
Description: This course provides students with a basic knowledge of the emergency service requirements related to the roles and responsibilities of a Chief Fire Officer including developing a plan for the integration of fire services resources, developing an agency resource contingency plan, evaluating incident facilities, supervising multiple resources, developing and utilizing an incident action plan, obtaining incident information to facilitate transfer of command, developing and conducting a post-incident analysis, and maintaining incident records.
Hours: 24 lecture
CCS: Credit Status
Transferable: Associate Degree only. Not transferable.

FIRE B52K Executive Chief Fire Officer 4B
0.5 units
Description: This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching theme of this curriculum is maintaining, developing, and providing leadership for a risk management program.
Hours: 11 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B52L Executive Chief Fire Officer 4C
1.5 units
Description: This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are developing a comprehensive, long-range plan; evaluating and projecting training requirements, facilities, and building needs; completing a written comprehensive risk, hazard, and value analysis; and developing a plan for a capital improvement project or program.
Hours: 31 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B52M Executive Chief Fire Officer 4D
2 units
Description: This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are developing a comprehensive disaster plan and a comprehensive plan for the organization to operate at a civil disturbance.
Hours: 39 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B52N Executive Chief Fire Officer 4E
0.5 units
Description: This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching theme of this curriculum is maintaining, developing, and providing leadership for a risk management program.
Hours: 15 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B52O Instructor 1 - Instructional Methodology
2 units
Description: This course provides the skills and knowledge needed for the entry level professional instructor to perform his or her duties safely, effectively, and competently. The curriculum is based on the 2012 edition of NFPA 1041 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Instructor 1 certification will be able to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. The Instructor 1 will also be able to adapt a lesson plan and complete the reporting requirements to the local jurisdiction.
Hours: 40 lecture
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

FIRE B60 Driver/Operator Certification
2 units
Description: Knowledge and skills in pump operations for fire engineers. Includes procedures on pumps, pumping principles, practical hydraulics, safe apparatus operation on route and at scenes of emergencies, principles of reading and interpreting gauges, hydrant operations and drafting procedures.
Hours: 32 lecture, 8 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

FIRE B62 Fire Fighter I Academy
12.5 units
Description: Basic educational and practical training essential for Fire Fighter I. Advanced study of organizational procedures; forcible entry tools; protective breathing apparatus; emergency medical
care; inspection procedures; fire protection equipment and systems; wildland fire control; fire behavior; and petroleum fire procedures.  
**Hours:** 108 lecture, 351 laboratory  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

### FIRE B63 Fire Fighter II Academy  
**3.5 units**  
**Description:** Advanced academic and manipulative training essential for the achievement of job tasks specified for Fire Fighter II. Covers general knowledge germane to the profession, fire department communications, fire ground operations, rescue operations, and prevention, preparedness, and maintenance. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications. Meets requirements for the California State Board of Fire Services, Fire Fighter II certification.  
**Hours:** 42 lecture, 76 activity/skills, 8 testing  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

### FIRE B64 State Fire Fighter I Academy  
**15 units**  
**Description:** Provides the skills and knowledge needed for the entry level fire fighter, career or volunteer, to perform their duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications, the 2012 edition of NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications and the 2008 edition of NFPA 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. The curriculum includes: fire department communications, fire ground operations, rescue operations, preparedness and maintenance, wildland suppression activities, and hazardous materials/WMD.  
**Hours:** 167 lecture, 371.5 activity/skills  
**CCS:** Credit Course  
**Transferable:** Associate Degree only. Not transferable.

### FIRE B66 Fire Fighting Skills  
**8 units**  
**Prerequisites:** FIRE B62 or FIRE B63 with a grade of ‘C’ or better.  
**Description:** Professional development workshops and seminars related to fire fighting skills. Practical experience including utilization of fire hose, ladders, tools, salvage, chemistry, extinguishing and agents, fire control, prevention, arson, crowd and traffic control, manual aid, communications, fire and health safety, and emergency rescue techniques.  
**Hours:** 90 lecture, 162 laboratory  
**Repeat:** unlimited, legally mandated training  
**CCS:** Credit Course  
**Transferable:** Not degree applicable. Not transferable.

### FIRE B70A Hazardous Materials for First Responders  
**1 unit**  
**Description:** This class is mandated by law or called upon by necessity to assess, plan for, and initiate mitigation of incidents involving hazardous materials. Content covers the extent and nature of today’s hazardous materials problem, effects of weather, topography, and environmental conditions on the behavior of hazardous materials and the containment efforts these conditions require. Defensive tactics to contain the release from a safe distance, keep it from spreading, and prevent exposures without trying to stop the release. Meets and exceeds the requirements of CFR 29 1910.120 and CCR Title 8. This course meets National Wildfire Coordinating Group and State Fire Marshal CFSTES class.  
**Hours:** 24 lecture  
**CCS:** Credit Course  
**Transferable:** Not degree applicable. Not transferable.

### FIRE B70B First Responder Operational-Decontamination  
**0.5 unit**  
**Description:** This course will provide the hazardous materials emergency responder with the processes used in decontamination and methods to limit the spread of hazardous materials contamination in a safe and competent manner. As a National Wildfire Coordinating Group /State Fire Marshal CFSTES/CSTI class.  
**Hours:** 9 lecture  
**CCS:** Credit Course  
**Transferable:** Not degree applicable. Not transferable.

### FIRE B70C Hazardous Materials Incident Commander/Scene Manager  
**1 unit**  
**Description:** Provide students with competencies needed to assume the role of an Incident Commander, as well as leadership skills for any other Command of Staff Incident Command System positions which are necessary during a hazardous materials incident. Content will also accentuate personnel safety and Occupational Education  
**Hours:** 18 lecture  
**CCS:** Credit Course  
**Transferable:** Not degree applicable. Not transferable.

### FIRE B70D Hazardous Materials Technician/Specialist  
**1A: Basic Chemistry**  
**2 units**  
**Description:** Technical training in the physical and chemical terminology important to hazardous materials technicians/ specialists and prevention officers, ability to determine properties of a chemical compound by name or formula. Includes study of important terms which describe properties, reactions with other materials, and the effects upon human beings, environment, and property. Applies to Hazardous Materials Technician/Specialist certification. This also meets the State Fire Marshal California State Training Institute and CSTI California State Training Institute course requirements, Occupational Education.  
**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Not degree applicable. Not transferable.

### FIRE B70E Hazardous Materials Technician/Specialist  
**1B: Applied Chemistry**  
**2 units**  
**Description:** This course will review the basic terminology and theory of chemistry as it relates to hazardous materials incident management. Additional new content to include: hazard and risk management; behavior and effect of toxicant and the major biological systems affected by toxicant; as well as using monitoring equipment to detect hazardous atmospheres and unknown solids and liquids. Applies to Hazardous Materials Technician/Specialist I certification.  
**Hours:** 40 lecture  
**CCS:** Credit Course  
**Transferable:** Not degree applicable. Not transferable.

### FIRE B70F Hazardous Materials Technician/Specialist  
**1C: Incident Considerations**  
**2 units**  
**Description:**
Description: Content covers hazardous materials data research; meteorological considerations that influence hazardous materials response activities; hazardous materials incidents command concepts associated with response activities; incident specific considerations that influence hazardous materials response activities; and legislative and regulatory policies that impact hazardous materials response activities. Applies to Hazardous Materials Technician / Specialist certification and is a California State Training Institute class.

Hours: 32 lecture, 8 laboratory

CCS: Credit Course

Transferable: Not degree applicable. Not transferable.

FIRE B70G Hazardous Materials Tech/Spec 1D: Tactical Field Operations

1.5 units

Description: Information on confinement, including diking, dams and sorbent; awareness on plugging and patching; application of chemical protective clothing; preservation of evidence; and emergency medical considerations at a hazardous materials incident. Applies to Hazardous Materials Technician / Specialist certification. Offered: As a California State Training Institute class.

Hours: 18 lecture, 27 laboratory

CCS: Credit Course

Transferable: Not degree applicable. Not transferable.

FIRE B70H Hazardous Materials Tech/Spec 1E: Special Mitigation Techniques

1 unit

Description: Content covers medical monitoring guidelines; use of Level 'A' chemical protective clothing; repair leaks on a rail tank car; procedures to simulate off-loading hydrocarbons from a rolled over DOT MC-306/406 aluminium tank truck; and practice as a member of a hazardous materials team in simulated hazardous materials incidents. Applies to Hazardous Materials Technician / Specialist certification.

Hours: 9 lecture, 31 laboratory

CCS: Credit Course

Transferable: Not degree applicable. Not transferable.

FIRE B70I Hazardous Materials Tech/Spec 1F: Advanced Field Operations

1 unit

Description: Practical application of methods and procedures to mitigate leaking containers; transferring hazardous materials between containers; classifying known and unknown chemicals; participating as a member of hazardous materials team in simulated hazardous materials incidents; and exercising safe methods while operating at hazardous materials incidents. Applies to Hazardous Materials Technician / Specialist certification.

Hours: 9 lecture, 31 laboratory

CCS: Credit Course

Transferable: Not degree applicable. Not transferable.

FIRE B71A Seasonal Firefighter Basic Training 1

2 units

Description: All of the federal fire agencies and many municipal fire departments recognize this course as the foundation to all subsequent wildland fire training. This is “The Basics” it will provide students with an understanding of wildland firefighting principals, tactics, organization, and fireline safety. This class covers NWCG L180, S130, and S190 course material.

Hours: 27 lecture, 27 laboratory

CCS: Credit Course

Transferable: Associate degree only. Not transferable.

FIRE B71B Seasonal Firefighter Basic Training 2

1 unit

Prerequisites: FIRE B71A with a grade of ‘C’ or better.

Description: Manipulative and technical training in the identification and operation of wildland fire tools and equipment. Includes fire-line construction practices, physical fitness and water-handling equipment. Satisfies one-half of required training standards.

Hours: 9 lecture, 27 laboratory

CCS: Credit Course

Transferable: Associate Degree only. Not transferable.

FIRE B71E Wildland Fire Behavior and Control

0.5 unit

Description: Basic watershed fire behavior. Environmental factors of fire behavior which start and spread watershed fires, and basic fire suppression methods applicable to breaking the fire triangle are emphasized. Meets National Interagency Incident Management System certification.

Hours: 9 lecture

CCS: Occupational Education

Transferable: Not degree applicable. Not transferable.

FIRE B72A Rescue Systems 1

2 units

Description: Technical knowledge and practical skills necessary to successfully perform team organization, rescue, and environmental considerations, use of ropes, knots rigging and pulley systems, descending, rappelling, and belaying tools and techniques, subsurface rescue techniques, use of cribbing, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescue situations, and day and night simulated rescue exercises. Accredited by the California Fire Service Training and Education System.

Hours: 24 lecture, 16 laboratory

CCS: Credit Course

Transferable: Not degree applicable. Not transferable.

FIRE B72D Swift Water Rescue

1 unit

Description: Basic techniques necessary to perform emergency rescue procedures involving swift water rivers. Emphasizes basic rescue knot practices, handling small rescue boats, emergency care, and controlling special hazard and problems in swift water emergencies.

Hours: 18 lecture

CCS: Credit Course

Transferable: Not degree applicable. Not transferable.

FIRE B72F Auto Extrication

0.5 unit

Description: A systematic approach to vehicle rescue, and the use of mechanical and hand tools used in the extrication process.

Hours: 9 lecture, 7 laboratory

CCS: Credit Course

Transferable: Not degree applicable. Not transferable.

FIRE B72H Emergency Medical Technician

7.5 units
**FIRE B72I Emergency Medical Technician I Refresher**

1 unit

**Prerequisites:** FIRE B72H with a grade of 'C' or better.

**Description:** A review of material in FIRE B72H with updates on EMT-1 issues and new material or skill techniques. An approved refresher course that follows state regulations and leads to a re-certification completion certificate. This course meets the requirements to continue practicing pre-hospital emergency care in the County of Kern.

**Note:** Not open to students who have completed EMTC B50R.

**Hours:** 24 lecture

**Transferable:** Associate Degree only. Not transferable.

**FIRE B73 Intermediate Wildland Fire Behavior S-290**

2 units

**Description:** Professional development related to the topic of wildland fire behavior. This course provides instruction in the identification and prediction of wildland fire behavior in various fuel types and under varying weather conditions. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Inter-agency Incident Management System.

**Hours:** 36 lecture

**Transferable:** Not transferable. Not degree applicable.

**FIRE B79 Regional Instructor Orientation**

0.5 unit

**Description:** This course is designed to provide instructors with an overview of State Fire Training, instructor registration requirements, instructor responsibilities and accountability, how to schedule and return courses, and manual procedures.

**Hours:** 9 lecture

**Transferable:** Not degree applicable. Not transferable.

**FIRE B85 Special Topics/Fire**

0.5-3 units

**Description:** Various mandated training topics required by California State Fire Marshal (CSFM).

**Hours:** 9 lecture hours for each .5 unit (9-54)

**Transferable:** Not degree applicable. Not transferable.

**Food Service Courses**

**FDSV B48WE Occupational Work Experience Education**

1-8 units

**Prerequisites:** Declared major or occupational goal and evaluation of student’s qualifications and objectives.

**Description:** College credit for food service related learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student. Occupational work experience credit may accrue at the rate of 1 to 8 units per semester for a total of sixteen units, and students must work 75 paid hours or 60 non-paid hours per unit. Repetition allowed per Title 5 55253.

**Hours:** Non-paid 60 hours for each 1 unit (60 - 480). Paid 75 hours for each 1 unit (75 - 600).

**Transferable:** CSU and private colleges

**FDSV B50 Introduction to the Foodservice Industry**

2 units

**Recommended:** Reading - one level prior to transfer.

**Description:** An introduction to the foodservice industry including history, trends, organization and job opportunities. Entry skills to be taught include communication techniques, terminology, work simplification, application of computational skills, safety procedures, time management, equipment identification and operation, and knife skills and cutting techniques. Provides career and educational planning. Satisfies the 0.5 unit counseling requirement for graduation from Bakersfield College. Fields trips required.

**Hours:** 36 lecture

**Transferable:** Associate Degree only. Not transferable.

**FDSV B51 Food and Nutrition Orientation**

0.5 unit

**Recommended:** Reading - one level prior to transfer.

**Description:** Provides a basic understanding of professional standards used in food service industry as well as orientation to the kitchen equipment, storage practices and the use of a recipe. Covers skills development for organizational skills, time management and goal setting. Preparations for the construction of student projects and portfolios are included in this course.

**Hours:** 9 lecture

**Transferable:** Associate Degree only. Not transferable.

**FDSV B52 Foodservice Sanitation and Safety**

2 units

**Recommended:** Reading - one level prior to transfer.

**Description:** Basic principles of sanitation and safety standards set by regulatory agencies. Causes and prevention of food-borne illnesses. Application of food safety production and service, personal hygiene and facilities maintenance procedures. Food safety regulations and inspection including HACCP system are emphasized. Course meets minimum food safety certification requirements of California legislation effective January 1, 2000. Upon passing the required exam, course certificate of completion is awarded from the
FDSV B55A Food Service Production Theory I
2.5 units
Description: Basic principles and techniques involved in commercial and non-commercial food production. Emphasizes recipe standardization, equipment and sanitation and safety principles. Cookery principles relating to stocks, sauces, soups, meats, vegetables, salads, potatoes, and starches. Field trips may be required.
Hours: 45 lecture
 CCS: Credit Course
 Transferable: Associate Degree only. Not transferable.

FDSV B55B Food Service Production Theory II
2.5 units
Description: Basic principles and techniques involved in commercial and non-commercial food production. Emphasizes nutritional standards, equipment use and sanitation/safety principles. Cookery principles relating to poultry, fish and shellfish, sandwiches, hors d’oeuvres, breakfast cookery, vegetarian cookery, food presentation and garde manger. Field trips may be required.
Hours: 45 lecture
 CCS: Credit Course
 Transferable: Associate Degree only. Not transferable.

FDSV B55C Food Service Production Laboratory I
2 units
Prerequisites: FDSV B50 and FDSV B55A (may be taken concurrently) or FDSV B55B (may be taken concurrently) with grades of ‘C’ or better.
Description: Practical experiences in the preparation of foods typical to a dinner house/a la carte menu in the campus restaurant. Work station rotations in kitchen and dining room with emphasis on professional skill development, work ethics and presentation skills for plate service. Uniforms are required. Field trips may be required.
Hours: 108 laboratory
 CCS: Credit Course
 Transferable: Associate Degree only. Not transferable.

FDSV B55D Food Service Production Laboratory II
2 units
Prerequisites: FDSV B50 and FDSV B55A (may be taken concurrently) or FDSV B55B (may be taken concurrently) with grades of ‘C’ or better.
Description: Practical experiences in the preparation of buffets and garde manger in the campus restaurant. Work station rotations in the kitchen and dining room with emphasis on professional skill development, work ethics and presentation skills for buffet service. Uniforms are required. Field trips may be required.
Hours: 108 laboratory
 CCS: Credit Course
 Transferable: Associate Degree only. Not transferable.

FDSV B55E Advanced Food Service Practicum
3 units
Prerequisites: FDSV B52, FDSV B55A, FDSV B55B, FDSV B55C, and FDSV B55D with grades of ‘C’ or better.
Corequisite: FDSV B59
Description: Practicum application of acquired knowledge, skills, work ethics, and technology in developing a broader understanding of production, service and management function in on-campus and off-campus foodservice operations. Uniforms are required. Transportation provided by the student. Practicum sites must be approved by their instructor.
Hours: 36 lecture
 CCS: Credit Course
 Transferable: Associate Degree only. Not transferable.

FDSV B55F Fundamentals of Baking
2 units
Prerequisite: FDSV B50 with a grade of ‘C’ or better.
Description: Fundamental baking experience in the production of cakes, basic creams, icings, dessert sauces, tarts, eclairs, meringues, cookies, yeast breads, quick breads and specialty cookies. Decorative work and display pieces, product presentation and marketing techniques demonstrated.
Hours: 18 lecture, 108 laboratory
 CCS: Credit Course
 Transferable: Associate Degree only. Not transferable.

FDSV B55I Food and Nutrition Internship
2 units
Prerequisites: FDSV B52, FDSV B55A, FDSV B55B, FDSV B55C, and FDSV B55D with grades of ‘C’ or better.
Corequisite: FDSV B59
Description: Advanced practicum application of required knowledge, skills, work ethics and technology in developing a broader understanding of the food service industry. Off campus work internship under supervision of a food service professional. Practicum sites must be approved by the instructor. Course emphasizes integrating theory with practical food service applications. Participation criteria may vary among the participating food service professional organizations. Uniform is required. Transportation provided by the student.
Hours: 18 lecture, 54 activity
 CCS: Credit Course
 Transferable: Associate Degree only. Not transferable.

FDSV B59 Food Service Production Management
3 units
Prerequisites: FDSV B50 and FDSV B52 (may be taken concurrently) and FDSV B55A (may be taken concurrently) or FDSV B55B (may be taken concurrently) with grades of ‘C’ or better.
Description: Emphasizes basic knowledge of the first-line hospitality supervisor’s roles and responsibilities. Principles of good people management are presented in how they apply to the job. Food purchasing activities for foodservice operations and product information from a management’s perspective are discussed in relation to supervisory roles. Basic principles of cost control are discussed along with applications of basic accounting procedures to cost controls and profitability. Field trips may be required.
Hours: 54 lecture
 CCS: Credit Course
 Transferable: Associate Degree only. Not transferable.

FDSV B64A Dietetic Service Supervisor Practicum
2 units
Prerequisites: NUTR B10 and NUTR B50 with grades of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: Role and responsibilities of the Dietetic Service Supervisor in health care and community foodservice operations.
Forestry Courses

FORE B1 Introduction to Forestry
3 units
Recommended: Reading - one level prior to transfer.
Description: The ecological, economic and sociological basis of forest management interrelated with the management of other resources. Topics include a history of forestry in America, the economics of forestry, forestry and national planning and forest uses.
Hours: 54 lecture
CCS: Occupational Education
Transferable: UC, CSU and private colleges

FORE B2 Natural Resources
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Survey of our natural resources and the conservation of those uncaptured natural stores which are useful to humankind. Resources covered are water, soil, air, forests, grasslands, wildlife, oceans, minerals and energy. Ecology, waste management and human resources are also covered.
Hours: 54 lecture
CCS: Occupational Education
Transferable: UC, CSU and private colleges; CSU GE E; BC GE B.1

FORE B3 Wildlife Management
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: The practice of wildlife management. Foundations of wildlife production. The identification, life histories and ecology of selected important wildlife species - mammals including fur bearers, waterfowl and fish.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

FORE B4 Wildlife Law Enforcement
3 units
Recommended: Reading - one level prior to transfer.
Description: A brief history of the development of wildlife law enforcement. State functions and jurisdiction; federal jurisdiction, federal wildlife laws, federal versus state jurisdiction; rights of the private citizen. Types of violations and the role of the law enforcement officer. The function of the officer, including arrests, preparation of evidence, interviewing and court appearances.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

FORE B5 Identification of California Wildlife
3 units
Description: A survey of game birds, fish, mammals of California and the Western United States. Characteristics of game animals and protected species. Practices identifying animals in their environment. Emphasizes protecting species which are in danger of extinction.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CU and private colleges

FORE B6 Forestry Skills
3 units
Recommended: Reading - one level prior to transfer.
Description: Survey of the forestry, wildlife and natural resources management industries. Careers, job requirements, terminology, employment opportunities and the identification and/or use of selected tools and equipment. Field trips required. Transfers as an Agriculture elective.
Hours: 18 lecture, 108 laboratory
CCS: Occupational Education
Transferable: CU and private colleges

FORE B7 Wildland Fire Management
3 units
Description: Covers the physical theories of wildland fire, the methodology of wildland fire suppression, pre-suppression, and post-fire suppression and equipment. The practice of fire ecology and the use of prescribed control burns to maintain and improve our nation's forests and rangelands. Field trips may be required.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CU and private colleges

FORE 48WE Occupational Work Experience Education
1-8 units
Prerequisites: Declared major or occupational goal and evaluation of student's qualifications and objectives.
Description: College credit for forestry related learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student. Occupational work experience credit may accrue at the rate of 1 to 8 units per semester for a total of sixteen units, and students must work 75 paid hours or 60 non-paid hours per unit. Repetition allowed per Title 5 55253.
Hours: Non-paid 60 hours for each 1 unit (60 - 480). Paid 75 hours for each 1 unit (75 - 600).
CCS: Credit Course
Transferable: CU and private colleges

Geography Courses

GEOG B1 Physical Elements of Geography
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: This course is the study of the earth as a physical system and its processes. Topics of inquiry are derived from the earth's four main spheres, the atmosphere, hydrosphere, lithosphere, and biosphere. They include weather and climate, earth-sun relationships, geology, and landforms. Geographic techniques such as mapping, Geographic Information Systems (GIS) and Remote Sensing are also discussed.
Hours: 54 lecture
CCS: Credit Course
**GEOG B1L Physical Geography Laboratory**  
1 unit  
Prerequisites: GEOG B1 with a grade of ‘C’ or better; may be taken concurrently.  
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.  
Description: Laboratory portion of Physical Geography is designed to demonstrate how material presented in Geography B1 can be applied in a working environment. Assignments are designed to help students understand and apply the concepts learned in the lecture to real world problems. Exercises include using an atlas, coordinate systems, earth-sun relationships, weather and climate analysis, landform development, and topographic map interpretation.  
Hours: 54 laboratory  
C-ID:  
CCS: Credit Course  
Transferrable: UC, CSU and private colleges; IGETC 5.C; CSU GE B.3; BC GE B.1

**GEOG B2 Human Geography**  
3 units  
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.  
Description: This course is designed to demonstrate how different human populations interact culturally with their environment. Special emphasis will be placed on concepts such as population, movement, human-earth relationships, languages, religion, economics and politics.  
Hours: 54 lecture  
C-ID:  
C-ID:  
Transferrable: UC, CSU and private colleges; IGETC 4; CSU GE D.5; BC GE D.2

**GEOG B3 Introduction to Weather and Climate**  
3 units  
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.  
Description: This course is an introduction to the earth’s atmosphere, weather and climate. Topics to be discussed include solar and terrestrial energy, atmospheric composition, earth-sun relationships, temperature changes, wind and pressure systems, destructive weather patterns, frontal systems, and climate.  
Hours: 54 lecture  
C-ID:  
C-ID:  
Transferrable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

**GEOG B5 World Regional Geography**  
3 units  
Recommended: Reading - one level prior to transfer.  
Description: Survey of the world’s cultural regions and nations as interpreted by geographers, including physical, cultural, and economic features. Emphasis on spatial and historical influences on population growth, transportation networks, and natural environments. Identify important and significant features within regions.  
Hours: 54 lecture  
C-ID: GEOG 125  
Transferrable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

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**Geology Courses**

**GEOL B10 Introduction to Geology**  
3 units  
Prerequisites: Reading - one level prior to transfer.  
Description: Introduction to the principles of geology with emphasis on the structure and origin of the earth, its present and past landscapes and the processes at work changing its surface. Students requiring laboratory experience should enroll in GEOL B10L concurrently with GEOL B10.  
Note: At least one Saturday field trip or equivalent required. Not open to students who have successfully completed GEOL B1A.  
Hours: 54 lecture  
C-ID:  
Transferrable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

**GEOL B10L Introduction to Geology Laboratory**  
1 unit  
Prerequisites: GEOL B10 with a grade of ‘C’ or better; may be taken concurrently.  
Description: Exercises planned to accompany the lectures of GEOL B10. Identification of rocks and minerals, topographic and geologic map exercises demonstrating the work of water, wind, ice and gravity and effects of volcanism and earthquakes. Field trips required.  
Hours: 54 laboratory  
C-ID:  
Transferrable: UC, CSU and private colleges; IGETC 5.C; CSU GE B.3; BC GE B.1

**GEOL B11 Historical Geology**  
3 units  
Prerequisites: Reading - one level prior to transfer.  
Description: An introduction to the formation and development through time of the solid Earth, atmosphere and biosphere. Covers past movements and locations of the continents and interpretation of past environments as recorded in rock and fossil records, including the dinosaurs. Students requiring laboratory experience should enroll in GEOL B11L concurrently with GEOL B11. At least one Saturday field trip or equivalent required.  
Hours: 54 lecture  
C-ID:  
Transferrable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1

**GEOL B11L Historical Geology Laboratory**  
1 unit  
Prerequisites: GEOL B11 with a grade of ‘C’ or better; may be taken concurrently.  
Description: Exercises planned to accompany the lectures of GEOL B11. Identification and description of sedimentary rocks and fossils. Stratigraphic section, relative dating, and geologic map exercises. Introduction to classification using cladistics.  
Hours: 54 laboratory  
C-ID:  
Transferrable: UC, CSU and private colleges; IGETC 5.A; CSU GE B.1; BC GE B.1
**GEOB 21 Topics in Geology**  
1-3 units  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Introductory study of the various geological processes that shape the Earth. For each class offering students will focus on one particular area of geology, such as structures and earthquakes, rocks and minerals, geology of Sequoia National Park, geology of Joshua Tree National Park, geology of Death Valley, geology of Yosemite National Park, or other similar subjects. Students will learn about the processes and forces that created these areas and be able to apply their knowledge and understanding to other geological formations around the world. Field trips required.  
**Hours:** 18 lecture hours for each unit (18-54)  
**CCS:** Liberal Arts/Science  
**Transferable:** CSU and private colleges

**Health Education Courses**

**HLED B1 Principles of Health Education**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** A survey of Health as expressed through the interdependence of the intellectual, emotional, environmental, physical, social and spiritual dimensions of wellness.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; CSU GE E; BC GE E

**History Courses**

**HIST B1 World History from the Origins of Civilizations to 1600**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Survey of the historical development of different world societies' major economic, intellectual, political, religious, cultural and social ideas and institutions from Paleolithic humanity to the Early Modern Era.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE C.2; CSU GE D.6; BC GE D.2

**HIST B2 History of the World (Since 1650)**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Interdisciplinary multimedia approach to the development of our interconnected and interdependent modern world since the 16th Century. Emphasis is on comparative history, world systems, modernization theory, cultural diffusion, and ecologies of core/periphery associations.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.6; BC GE D.2

**HIST B4A European Civilization**  
3 units  
**Recommended:** Reading and Writing - one level prior to transfer.  
**Description:** Survey of history of European civilization from its origin to 1650. Course will examine the different economic, intellectual, political, religious, cultural and social ideas and institutions of the different ethnic and national groups of Europe as they developed from its origin to 1650. Course includes critical thinking and evaluation skills development in analysis and interpretation of historical evidence.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.6; BC GE D.2

**HIST B4B European Civilization**  
3 units  
**Recommended:** Reading and Writing - one level prior to transfer.  
**Description:** A survey history of the early and late modern eras in European History and its influence on other ‘westernized’ nations. Course will examine the different economic, intellectual, political, religious, cultural and social ideas and institutions of the different ethnic and national groups of Europe as they developed from 1600 to the present. Course includes critical thinking and evaluation skills development in analysis and interpretation of historical evidence.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** HIST 180  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.6; BC GE D.2

**HIST B15 Civilizations of the Middle East**  
3 units  
**Recommended:** Reading - one level prior to transfer.  
**Description:** An introduction to the history and culture of the Middle East from the rise of Islam in the 7th century to the present. Includes the study of government, family, social classes, religion, politics, and conflict in the region.  
**Hours:** 54 lecture  
**CCS:** Liberal Arts/Science  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE C.2; CSU GE D.6; BC GE D.2

**HIST B17A History of the United States**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Survey of the political, economic and cultural history of the United States from earliest colonial times to 1877. Includes a study of the U.S. Constitution and federal government. Partially satisfies the requirements in U.S. Constitution, American history and institutions.  
**Note:** HIST B17A is not a prerequisite to HIST B17B.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** HIST 130  
**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.6; BC GE D.2; BC GE D.3

**HIST B17B History of the United States Since 1870**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Survey of the political, economic and cultural history of the United States from Reconstruction to the present. Includes a study of the U.S. Constitution and federal government. Partially satisfies the requirements in U.S. Constitution and American history and institutions.  
**Note:** HIST B17A is not a prerequisite to HIST B17B.  
**Hours:** 54 lecture
HIST B18 History of California
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: The social, economic, and political development of California from its pre-European past to its post-industrial present. Examines the historical uniqueness of California's environment, population, institutions, and economy. Emphasis placed on the influence of American political thought and institutions in the historical evolution of California's state and local governments. Partially satisfies the requirements in U.S. Constitution, American history and institutions.
Hours: 54 lecture
CCS: CreditCourse
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.6; BC GE D.2; BC GE D.3

HIST B20A African American History of the United States
3 units
Recommended: ENGL B50. Reading - one level prior to transfer.
Description: Survey of the political, economic, and cultural history of the United States from earliest colonial times to reconstruction with emphasis on the role and contributions of African Americans. Includes a study of the U.S. Constitution and federal government. Partially satisfies the requirements in U.S. Constitution, American history and institutions. Meets the Multicultural Requirement.
Hours: 54 lecture
CCS: LiberalArts/Science
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE C.2; CSU GE D.6; BC GE D.2; BC GE D.3

HIST B20B African American History/U.S.
3 units
Recommended: Reading - one level below transfer. Writing - one level below transfer.
Description: Survey of the political, economic, and cultural history of the United States from reconstruction to the present with emphasis on the role and contributions of African Americans. Includes a study of the state and local government of California. Satisfies the requirements in U.S. Constitution, American history and institutions.
Hours: 54 lecture
CCS: CreditCourse
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.3; CSU GE D.6; BC GE D.2; BC GE D.3

HIST B25 Introduction to Women in American History
3 units
Recommended: ENGL B50 And Reading - one level prior to transfer.
Description: Survey of the history of women in America from the pre-colonial period to the present. Emphasis is on the social, economic, political, and multicultural facets of women's history in the US, and includes both the commonalities and diversities of women's roles, the use of gender as an analytic category, and the specific significance of women in the evolution of the major contours of US history.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.4; CSU GE D.6; BC GE D.2

HIST B30A Early Chicano History
3 units
Recommended: Reading - one level prior to transfer.
Description: A survey of the history of the peoples of the Mexican-American borderlands from Pre-Columbian times until 1848. Examines the social, economic, and political evolution of the region with emphasis upon the inter-relationships between the histories of the United States and Mexico. Partially satisfies the requirements in U.S. Constitution, American history and institutions. Not open to students who have successfully completed CHST B30A.
Hours: 54 lecture
CCS: LiberalArts/Science
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.3; CSU GE D.6; BC GE D.2

HIST B30B History of Chicanos in the Southwest
3 units
Recommended: Reading – one level prior to transfer. Writing – two levels prior to transfer.
Description: Survey of the Chicanos and the U.S. with an emphasis on the developments in California and the Southwest from 1848 to present: relationship of regions within the U.S. area, roles of major ethnic groups, continuity of American experience, derivation from other cultures, aftermath of the U.S. Mexican War, interrelationship of Mexican and U.S. history between 1860 and 1910, effects of Mexican Revolution on the 20th century experience of Chicanos, California State Constitution. Partially satisfies requirements in U.S. Constitution, American history and institutions.
Note: Not open to students who have taken the equivalent course, CHST B30B.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.3; CSU GE D.6; BC GE D.3

HIST B33 Latin American History
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Historical survey of the social, economic and political development of Latin America, including the formation of pre-Columbian civilization through establishments of the Spanish and Portuguese colonial systems to nation building of the modern era. Examines the impact of the United States’ foreign policy on the development of Latin America.
Note: Not open to students who have completed CHST B33.
Hours: 54 lecture
CCS: CreditCourse
Transferable: UC, CSU and private colleges; IGETC 3.B; IGETC 4; CSU GE D.3; CSU GE D.6; BC GE D.2

HIST B36 History of Native American Indians
3 units
Recommended: ENGL B50 and reading - one level prior to transfer.
Description: Survey of the origins, traditions, lifeway and belief systems of various Native American communities. Emphasis on socio-political encounters with Anglo American expansion and indigenous resilience. Partially satisfies the requirements in U.S. Constitution, American history and institutions.
Hours: 54 lecture
CCS: Credit Course
Human Services Courses

HMSV B5 Human Services Internship
2 units
Prerequisites: HMSV B40 with a grade of ‘C’ or better. Student must have completed HMSV B40, attend a mandatory orientation, and obtain the signature of the Human Services Program Coordinator before enrolling in HMSV B5.
Description: Study of human services organizations; Work internship under supervision in a human services field; Emphasizes integrating theory with practical application; Participation criteria may vary among the participating human services agencies; Signature of the Program Coordinator is required to register for this class. Note: Eligible interns may take two units per semester until a total of four units (216 hours of field work) has been completed. Two units equal 18 hours seminar and 108 hours field work.
Hours: 18 lecture, 54 laboratory
Repeat: 2
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

HMSV B40 Introduction to Human Services
3 units
Recommended: Reading - one level prior to transfer.
Description: Survey of helping institutions and social issues concerning human services, including target populations; survey of human services careers; historical, ethical, and theoretical perspectives of social and public policy; current controversies concerning human services; institutional and community-based services; diversity; models of service delivery; helping process techniques and skills.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

Industrial Drawing Courses

INDR B12 Introduction to Drafting and CAD
2 units
Description: Introductory course dealing with conventional drafting methods and a computer aided drafting and design (CAD) program to obtain graphic solutions, design modifications, and delineations for industrial, architectural, and engineering drawings. Emphasizes basic drafting and CAD skills.
Note: Not open to students who have taken INDR B10 and INDR B11.
Hours: 18 lecture, 54 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

INDR B20A Computer Aided Drafting and Design (CAD)
3 units
Prerequisites: INDR B10 and INDR B11 or INDR B12 with grade of ‘C’ or better; or equivalent experience to be evaluated by the instructor.
Description: An intensive course utilizing a computer aided design (CAD) program to obtain graphic solutions, design refinements, modifications, and delineations in both 2D and 3D for industrial, architectural, and engineering drawings. Emphasizes technology skills that are necessary to function as an entry-level CAD operator.
Materials Fee: $10.00
Hours: 27 lecture, 81 laboratory

CCS: Occupational Education
Transferable: UC, CSU and private colleges

INDR B20B Computer Aided Drafting and Design (CAD)
3 units
Prerequisites: INDR B20A with a grade of ‘C’ or better.
Description: Continuation of the sequence utilizing a computer aided drafting (CAD) program to obtain graphic solutions, design refinements, modifications, and delineations in both 2D and 3D for industrial, architectural and engineering drawings. Emphasizes technology skills that are necessary to function as an entry-level CAD operator.
Materials Fee: $3.00
Hours: 27 lecture, 81 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

INDR B50 Process Piping
3 units
Prerequisites: INDR B10 and INDR B11 or INDR B12 with grade of ‘C’ or better.
Description: An intermediate-level CAD course that is structured to impart the foundation knowledge and essential technical skills required to succeed in the field of process pipe drafting. Areas of study include units on industry standards, delineation conventions, and the creation of piping plans, isometric drawings, and process flow diagrams.
Materials Fee: $5.00
Hours: 27 lecture, 81 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

INDR B51 Electrical Design
3 units
Prerequisites: INDR B10 and INDR B11 or INDR B12 with grade of ‘C’ or better.
Description: Introduces the student to the drawing and drafting techniques used in the preparation of electrical construction drawing in industry today. Emphasizes concepts of design to the
student utilizing various national, state, and local rules and codes (e.g. 1987 National Electrical Code).

- **Materials Fee**: $3.00
- **Hours**: 27 lecture, 81 laboratory
- **CCS**: Occupational Education
- **Transferable**: Associate Degree only. Not transferable.

**INDT B272 Special Problems in Electronics**

- **2-3 units**
- **Prerequisites**: INDT B271 Special Problems in Electronics with a grade of ‘C’ or better.
- **Description**: Provides individual students the opportunity to explore various segments of electronics. Development and implementation of meaningful self-directed studies in areas where student desires specific technical and related skills development necessary for enrichment or employment.
- **Hours**: 27 lecture, 81 laboratory
- **CCS**: Occupational Education
- **Transferable**: Associate Degree only. Not transferable.

**Industrial Technology Courses**

**INDT B5 Architectural Woodworking and Design**

- **1 unit**
- **Prerequisites**: ARCH B6 (may be concurrently enrolled).
- **Description**: Students will complete an architectural woodworking project of their own design, including conceptual drawings of the design. Emphasis is on woodworking lab safety. Covers the incorporation of woodworking joinery.
- **Hours**: 9 lecture, 27 laboratory
- **CCS**: Occupational Education
- **Transferable**: CSU and private colleges

**INDT B10 Occupational Readiness**

- **3 units**
- **Description**: Orientation to Bakersfield College and post-secondary education in California. Survey of various fields of industrial technology, career opportunities and requirements, development of a personal education plan. Satisfies the 0.5 unit educational planning requirement for graduation from Bakersfield College. Elective credit only.
- **Hours**: 54 lecture
- **CCS**: Occupational Education
- **Transferable**: CSU and private colleges

**INDT B271 Special Problems in Welding**

- **2 units**
- **Prerequisites**: WELD B1A and WELD B1B and WELD B53a and WELD B74A and WELD B74B with grades of ‘C’ or better.
- **Description**: Provides individual students the opportunity to explore various segments of welding such as various welding processes and codes, fabrication techniques, layout, and testing and preparation for certification. Development and implementation of meaningful, self-directed studies in areas where student desires specific technical and related skills development necessary for enrichment or employment.
- **Hours**: 27 lecture, 27 laboratory
- **CCS**: Credit Course
- **Transferable**: Not degree applicable. Not transferable.

**INDT B274 Special Problems in Woodworking**

- **2-3 units**
- **Prerequisites**: Completion of minimum of 9 units of electronics courses with a grade of ‘C’, or equivalent experience or evaluation by instructor. Completed Petition for Individual Study form.
- **Description**: Provides individual students the opportunity to explore various segments of electronics. Development and implementation of meaningful self-directed studies in areas where student desires specific technical and related skills development necessary for enrichment or employment.
- **Hours**: 18 lecture hours for each unit (36-54)
- **CCS**: Credit Course
- **Transferable**: Not degree applicable. Not transferable.

**INDT B273 Special Problems in Machine Tool Metal Working**

- **2-3 units**
- **Prerequisites**: Completion of minimum of 6 units of machine tool courses with a grade of ‘C’ or equivalent experience of evaluation by instructor. Completed Petition for Individual Study form.
- **Description**: Provides individual students the opportunity to explore various segments of machine tool metal working. Development and implementation of meaningful self-directed studies in areas where student desires specific technical and related skills development necessary for enrichment or employment.
- **Hours**: 18 laboratory hours for each unit (36-54)
- **CCS**: Credit Course
- **Transferable**: Not degree applicable. Not transferable.

**INDT B272 Special Problems in Electronics**

- **2-3 units**
- **Prerequisites**: Completion of minimum of 9 units of electronics courses with a grade of ‘C’, or equivalent experience or evaluation by instructor. Completed Petition for Individual Study form.
- **Description**: Provides individual students the opportunity to explore various segments of electronics. Development and implementation of meaningful, self-directed studies in areas where student desires specific technical and related skills development necessary for enrichment or employment.
- **Hours**: 27 lecture, 81 laboratory
- **CCS**: Occupational Education
- **Transferable**: Associate Degree only. Not transferable.

**Japanese Courses**

**JAPN B1 Elementary Japanese I**

- **4 units**
- **Recommended**: Reading - one level prior to transfer. Writing - one level prior to transfer.
- **Description**: Introduction to Japanese language and culture. Special emphasis is on speaking and understanding Japanese along with mastering elementary grammar and composition while learning the characters of Japanese alphabets.
- **Hours**: 72 lecture
**JAPN B2 Elementary Japanese II**

4 units

**Prerequisites:** JAPN B1 with a grade of ‘C’ or better.

**Description:** Continuing of elementary course introducing Japanese language and culture. Special emphasis on speaking and understanding Japanese along with mastering elementary grammar and composition while learning the characters of Japanese alphabets. Requires practice with audiotape/CD program outside of class.

**Hours:** 72 lecture

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

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**JAPN B3 Intermediate Japanese**

4 units

**Prerequisites:** JAPN B2 with a grade of ‘C’ or better.

**Description:** Course provides the students with further knowledge and communication skills in Japanese in all 4 areas: speaking, listening, reading and writing. In addition to the polite/distal style, the course further develops oral communication skills in other speech styles such as direct style and honorific style. Students should be able to read and write about 200 kanji (Chinese characters) in this course.

**Hours:** 72 lecture

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

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**Journalism Courses**

**JRNL B4 Introduction to Public Relations**

3 units

**Recommended:** JRNL B2 with a grade of ‘C’ or better. Writing - one level prior to transfer. Reading - one level prior to transfer.

**Description:** An introduction to public relations in today’s society, including history of public relations and study of definitions, processes and audiences of businesses as well as nonprofit organizations. Includes how to prepare, write and submit news releases to electronic and print media. Field trips required.

**Hours:** 54 lecture

**CCS:** Occupational Education

**Transferable:** UC and private colleges

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**JRNL B1 Media and Society**

3 units

**Recommended:** Writing - one level prior to transfer. Reading - one level prior to transfer.

**Description:** A study and evaluation of mass media and how it shapes societies and cultures. The focus provides the media consumer with a historical and a theoretical perspective on newspapers, magazines, books, Internet, television, radio, public relations, advertising, and motion pictures. Course content discusses media law and ethics, controversial topics as well as topics of current interest. Field trips required.

**Hours:** 54 lecture

**CCS:** Credit Course

**C-ID:** JOUR 100

**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.8; BC GE D.2

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**JRNL B2 Beginning Reporting**

3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Introduction to journalism through the study of practical application of various techniques. Concentration on recognizing story ideas, gathering information from sources, news judgment, ethics, proper style and writing. Emphasizes news, features, sports and opinion writing. Prepares students for possible role on a student newspaper.

**Hours:** 54 lecture

**CCS:** Occupational Education

**C-ID:** JOUR 110

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**JRNL B15 Press Photography**

3 units

**Recommended:** JRNL B1 with a grade of ‘C’ or better.

**Description:** Study and application of digital photography as applied to journalism. Covers technical aspects of cameras, use of Photoshop, how to photograph assignments in the field and choosing photographs for print. Entry-level photojournalism course prepares students for enrollment in student newspaper.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**C-ID:** JOUR 160

**Transferable:** UC and private colleges

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**JRNL B16 Multimedia Reporting**

3 units

**Recommended:** JRNL B15 with a grade of ‘C’ or better.

**Description:** Study and application of photography applied to emerging changes in the journalism landscape, specifically visual and audio communication through new media. Emphasizes the combined use of still cameras, audio recording equipment and video cameras to produce in-depth, content-rich reporting for journalism Web sites.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**C-ID:** JOUR 120

**Transferable:** UC and private colleges

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**JRNL B26 Newspaper Production/Editors**

4 units

**Recommended:** JRNL B27A

**Description:** Designed for editors and second-semester students of the online and print editions of The Renegade Rip, BC’s award winning student-produced college newspaper. Teaches news content analysis, planning and evaluation using critical-thinking skills, story organization, intensive page design, planning and developing style and design of stories, photography, graphics, and art. Includes numerous discussions of ethics, collaboration with staff, and learning editorial leadership, with editors making all policy and content decisions for student-produced print and online media.

**Hours:** 18 lecture, 162 laboratory

**CCS:** Occupational Education

**C-ID:** JOUR 131

**Transferable:** UC and private colleges
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**Library Courses**

**LIBR B1 Introduction to Library Research**
1 unit

**Prerequisites:** Writing - one level prior to transfer. Reading - one level prior to transfer.

**Description:** Emphasizes developing research skills in order to locate and evaluate relevant and appropriate sources for college-level papers, speeches and other projects. Introduces students to advanced research techniques through the use of electronic databases, print resources, and the web, as well as the ethical use of information. Prepares students for research projects in English B50, English B1A, and other courses with research components.

**Hours:** 18 lecture

**Transferable:** UC, CSU and private colleges

**LIBR B55 Information Competency Workshops**
0 unit

**Description:** Variety of hour-long workshops that assist students in gaining proficiency in all aspects of information competency. Workshop topics include research strategies, searching the online catalog for books, finding periodical articles online, using advanced techniques with Internet searching, evaluating Internet resources, evaluating print resources, and examining ethics in research (plagiarism, fair use, and copyright).

**Hours:** 1 lecture

**Transferable:** Not degree applicable. Not transferable.

**Manufacturing/Machine Technology Courses**

**MFGT B1A Machine Tool Processes**
3 units

**Recommended:** MFGT B1AB with a grade of ‘C’ or better. Reading - one level prior to transfer.

**Description:** An introduction to machine tool technology including the use of precision measuring instruments, drilling machines, saws, lathes, and vertical milling machines.

**Note:** Elective credit only.

**Hours:** 36 lecture, 54 laboratory

**Transferable:** CSU and private colleges

**MFGT B2 CNC Lathe Programming & Operation**
3 units

**Recommended:** MFGT B1AB with a grade of ‘C’ or better. Reading - one level prior to transfer.

**Description:** Programming, set-up, and operation of a computer numerical control lathe.

**Hours:** 36 lecture, 54 laboratory

**Transferable:** CSU and private colleges

**MFGT B3 CNC Mill Programming**
3 units

**Recommended:** MFGT B1AB with a grade of ‘C’ or better. Reading - one level prior to transfer.

**Description:** Programming, set-up, and operation of a computer numerical control milling machines. G-code programming is emphasized along with the use of CAD/CAM software.

**Hours:** 36 lecture, 54 laboratory

**Transferable:** CSU and private colleges

**Mathematics Courses**

**MATH B1A Precalculus I**
4 units

**Prerequisites:** MATH BD/B70 with a grade of ‘C’ of better.

**Description:** Preparation for calculus; the algebraic and graphical analysis of polynomial, rational, logarithmic and exponential functions and their applications; systems of linear and nonlinear equations, graphing, inequalities, absolute value, and complex numbers.

**Hours:** 72 lecture

**Transferable:** UC, CSU and private colleges; IGETC 2; CSU GE B.4; BC GE B.2

**MATH B1B Precalculus II**
4 units

**Prerequisites:** MATH B1A with a grade of ‘C’ or better.

**Description:** Definitions of trigonometric functions, graphs of trigonometric functions, use of trigonometric functions in problem solving, derivation of trigonometric identities, verification of trigonometric identities, solution of conditional trigonometric equations, study of inverse trigonometric functions, trigonometric form of complex numbers and DeMoivre’s Theorem; analytic geometry, mathematical induction, and introduction to sequences and series.

**Hours:** 72 lecture
MATH B2 Basic Functions and Calculus for Business
4 units
Prerequisites: MATH B1A with a grade of ‘C’ or better.
Description: Modern concepts in mathematics emphasizing applications to business. Functions and the basic concepts of differential calculus with introductions to integral calculus and multivariable calculus.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 2; CSU GE B.4; BC GE B.2

MATH B4A Mathematics for Elementary School Teaching
4 units
Prerequisites: Mathematics - one level prior to transfer
Description: Focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasizes the comprehension and analysis of mathematical concepts and applications of logical reasoning. Designed for students intending to teach in K-8. Not recommended for majors in physical sciences nor mathematics.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE B.2

MATH B6A Analytic Geometry/Calculus I
4 units
Prerequisites: MATH B1B or equivalent with a grade of ‘C’ or better.
Description: Limits and differential calculus with an introduction to antiderivatives and integration. Includes analytic geometry and applications.
Hours: 72 lecture
CCS: Credit Course
Transferable: Transferable: UC, CSU and private colleges; IGETC 2; CSU GE B.4; BC GE B.2

MATH B6B Analytic Geometry/Calculus II
4 units
Prerequisites: MATH B6A with a grade of ‘C’ or better.
Description: Transcendental functions, polar functions, sequences, infinite series and methods of integration. Further exposure to techniques and applications of differential and integral calculus.
Hours: 72 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 2; CSU GE B.4; BC GE B.2

MATH B6C Calculus III
4 units
Prerequisites: MATH B6B or equivalent with a grade of ‘C’ or better.
Description: Continuation of Calculus II. Vectors and parametric equations, vector-valued functions, partial differentiation, multiple integrals, vector analysis, including theorems of Green, Gauss and Stokes.
Hours: 72 lecture
CCS: Credit Course
C-ID: MATH 230

MATH B6D Ordinary Differential Equations
3 units
Prerequisites: MATH B6C with a grade of ‘C’ or better.
Description: Vector spaces and linear transformations; elementary differential equations; Laplace transforms; series solutions and systems of differential equations; matrices; eigenvalues and eigenvectors.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 2; CSU GE B.4

MATH B6E Elementary Linear Algebra
3 units
Prerequisites: MATH B6C or equivalent with a grade of ‘C’ or better.
Description: Real and complex number fields, vector spaces, linear transformation, matrices, systems of equations and matrix inversion, determinants, eigenvalues and eigenvectors.
Hours: 54 lecture
CCS: Credit Course
C-ID: MATH 250
Transferable: UC, CSU and private colleges; IGETC 2; CSU GE B.4

MATH B21 Special Projects in Mathematics
1-2 units
Description: Individually directed work in mathematics in preparation for intercollegiate math competitions, including advanced topics, research projects, special problems and applications of mathematics to specific subject areas. Interested students should talk with their math instructors for an evaluation of their math skills. Field trips may be required.
Hours: 18 lecture hours for each unit (18-36)
CCS: Credit Course
Transferable: CSU and private colleges

MATH B22 Elementary Probability and Statistics
4 units
Prerequisites: Mathematics - one level prior to transfer
Description: Tabular, graphical, and numerical methods of summarizing data, finite probability, discrete and continuous random variables, binomial probability distribution, normal probability distribution, sampling distributions, point and interval estimation, one and two sample hypothesis testing procedures, analysis of variance, chi-square analysis, linear regression and correlation, and if time allows, nonparametric methods.
Hours: 72 lecture
CCS: Credit Course
C-ID: MATH 110
Transferable: UC, CSU and private colleges; IGETC 2; CSU GE B.4; BC GE B.2

MATH B23 Finite Mathematics
3 units
Prerequisites: Mathematics - one level prior to transfer with a grade of ‘C’ or better.
Description: Solving equations and inequalities in one variable, relations and functions, matrices, linear inequalities in two variables, linear programming, mathematics of finance including simple and compound interest, annuities, sets and counting, and Venn Diagrams.
Hours: 54 lecture
CCS: Credit Course
**MATH B50 Modern College Arithmetic and Pre-Algebra**

*4 units*

**Prerequisites:** Mathematics - four levels prior to transfer.

**Description:** A general review of basic arithmetic including the fundamental operations of addition, subtraction, multiplication and division of whole numbers, fractions and decimals. Emphasis is placed on real life applications, including percents, ratios, proportions, exponents, averages, estimation, graphs and measurement. The introduction to algebra includes operations with signed numbers and solving simple equations.

**Hours:** 72 lecture

**CCS:** Credit Course

**Transferable:** Not degree applicable. Not transferable.

**MATH B60 Beginning Algebra**

*5 units*

**Prerequisites:** MATH B50 or equivalent pre-algebra course with a grade of 'C' or better or mathematics - two levels prior to transfer.

**Description:** Fundamental concepts and mathematical processes first degree equations, polynomials, special products and factoring, rational expressions and equations, ratios, proportions, exponents, graphs, simultaneous linear equations.

**Hours:** 90 lecture

**CCS:** Pre-collegiate basic skills

**Transferable:** Not degree applicable. Not transferable.

**MATH B65 Intermediate Algebra for Statistics**

*4 units*

**Prerequisites:** Mathematics - two levels prior to transfer

**Description:** An accelerated algebra course for non-STEM majors. Topics include simplifying algebraic expressions, manipulating and applying formulas, solving equations and inequalities in one and two variables, polynomials, and modeling with linear, exponential, and logarithmic functions.

**Note:** This course will only satisfy the prerequisite for MATH B22 and PSYC B5. This course should not be taken by Business majors and Elementary Teacher Education majors.

**Hours:** 54 Lecture 54 Laboratory

**CCS:** Credit Course

**Transferable:** Not degree applicable. Not transferable.

**MATH B70 Intermediate Algebra**

*5 units*

**Prerequisites:** MATH B60 or equivalent course with a grade of 'C' or better or mathematics - one level prior to transfer.

**Description:** Topics for the course are functions and operations on functions; system of linear equations, linear, and absolute value inequalities; linear, absolute value, and quadratic equations; radicals and operations with radicals; equations involving radicals, exponential, and logarithmic equations; and conic sections.

**Hours:** 90 lecture

**Transferable:** Associate Degree only. Not transferable. BC GE B.2

**Mechanized Agriculture**

**MCAG B2 Introduction to Mechanized Agriculture**

*3 units*

**Description:** This course covers basic mechanical skills in woodworking, cold metal, electricity, plumbing, concrete, and project construction skills as related to farm maintenance and repair. The use of hand and power tool skills as well as emphasis on safety practices for all mechanical areas are covered. A laboratory class is required.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges

**MCAG B3 Small Gas Engines**

*3 units*

**Description:** An accelerated algebra course for non-STEM majors.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges

**MCAG B4 Agriculture Safety**

*3 units*

**Description:** This course involves safety practices and principles, accident causation and prevention in the shop and in the field, as well as with tractors and machinery. Operation, service and normal safety practices common to farming will be stressed, including welding, hand tools, and chemical applicators. Material Safety Data Sheets, Personal Protective Equipment and on-site Worker safety will be explored. Supervised field operation and field trips will be required. Laboratory required.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges

**MCAG B5 Agriculture Irrigation Technology**

*3 units*

**Description:** An examination of agriculture irrigation systems, Irrigation and drainage problems relating to pumps, motors, sprinkler systems, structures, pipelines, ditches and wells; computation of costs and measurement of water; water law; basic principles of plant-soil-moisture relations, and water movement in soil. Field trips are required.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges

**MCAG B10 Farm Power Operation**

*3 units*

**Description:** This course involves design principles, selection, maintenance, adjustment, and safe operation of wheel and track type tractors and commonly used equipment in agriculture and in the construction industry.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges

**MCAG B11 Farm Power Diesel Repair**

*4 units*

**Recommended:** MCAG B3

**Description:** This course explores the operation and repair of modern diesel engines. Principles and theories are studied by running, testing, diagnosing, disassembling and reassembling components, systems and engines.
Medical Science Courses

MEDS B35 Lifespan Development
3 units
Recommended: Reading - one level prior to transfer.
Description: Study of normal human growth and development in prenatal, childhood, adolescent, adult and old age periods. Offers a balanced study of basic theories, research, applications; principles of physiological, cognitive, and psychosocial development are discussed. Related observations are required. Health maintenance and safety issues for all age levels are incorporated. Concepts of death and dying are considered.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

MEDS B52 Cardiopulmonary Resuscitation for Healthcare Providers
0.5 unit
Description: An initial and retraining course in Basic Life Support that provides basic knowledge and skills of Basic Life Support and AED use for victims of all ages. Skills learned in the class will enable the students to recognize emergencies and how to respond to them. At the end of the course, the students will qualify for an American Heart Association Healthcare Provider BLS card. Repeat: As needed for recertification. Note: In addition to the scheduled hours, students must arrange a total of 2 required class hours in which students must obtain materials from the college bookstore. Prior to the first class meeting student must read manual and view DVD.
Materials Fee: $12.00
Hours: 9 lecture
Repeat: Unlimited, legally mandated training
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

MEDS B60 Medical Terminology
3 units
Description: A study of basic medical terms related to the major body systems. Three units are required for radiologic technology, medical billing, and transcribers.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

MEDS B66 Intravenous Therapy and Blood Withdrawal
2 units
Prerequisites: Enrollment in or completion of an Associate Degree or Vocational Nursing program.
Description: This course introduces the principles of intravenous therapy and blood withdrawal. The course is designed to enable the Licensed Vocational Nurse to safely initiate and maintain intravenous therapy and to perform blood withdrawal in a clinical setting. This course is approved by the Board of Vocational Nurses and Psychiatric Technicians and enrollment in or completion of an Associate Degree or Vocational Nursing Program is required.
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Not transferable. Not degree applicable.

MEDS B68 Home Health Aide
1.5 units
Prerequisites: MEDS B69
Description: This course follows the California Department of Public Health (CDPH) guidelines and builds upon the foundation of the nurse assistant training. The course is designed to prepare students to work with clients in the home setting and includes a minimum of 20 hours in the clinical setting. Skills competencies will be assessed utilizing objective, measurable criteria. Upon completion of the course the student will be eligible for the State of California Home Health Aide certification.
Hours: 18 lecture, 27 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

MEDS B69 Nurse Assistant
6 units
Prerequisites: Program requirements. See Allied Health Department for specifics.
Recommended: MEDS B60 with a grade of ‘C’ or better.
Description: Course focus is to prepare the nurse assistant for certification by the State of California as an entry-level worker on a health care team. The curriculum is structured to provide theory and practical application on skills needed to function as a nurse assistant. Correlated laboratory experiences are provided with emphasis on providing basic nurse assistant care to residents in a long term care setting. Concepts presented in MEDS B69 are applied in the laboratory and clinical setting. Formerly MEDS B67 and MEDS B67L.
Materials Fee: $72.00
Hours: 63 lecture, 135 laboratory
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

Music Courses

MUSC B2 Basic Elements of Music
3 units
Description: Designed for the student with little or no previous experience in the reading and writing of music. Development of beginning skills in music notation and basic elements of music theory. Course also serves as pre-requisite for Music B4A Elementary Theory.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: MUS 110
Transferable: UC, CSU and private colleges; IGETC 3A; CSU GE C.1; BC GE C.1
MUSC B4A Elementary Theory
3 units
Prerequisites: MUSC B2 with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Concurrent enrollment in MUSC B15a.
Description: A study of common practice harmony. A study of common practice harmony. Chromatic
harmony including scales, key signatures, triad and seventh chord constructions and 4-part voice leading including phrase structure.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: MUS 130
Transferable: UC, CSU and private colleges; IGEC 3.A; CSU GE C.1; BC GE C.1

MUSC B4B Elementary Theory
3 units
Prerequisites: MUSC B4a with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Concurrent enrollment in MUSC B15 and MUSC B230b.
Description: A study of common practice harmony. A study of common practice harmony. Chromatic
harmony from secondary dominants through augmented sixth chords including simple form analysis and mod.]ulation.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: MUS 140
Transferable: UC, CSU and private colleges; IGEC 3.A; CSU GE C.1; BC GE C.1

MUSC B4C Intermediate Theory-Contemporary
Materials
3 units
Prerequisites: MUSC B4b with a grade of ‘C’ or better.
Corequisite: MUSC B15c must be taken concurrently.
Description: Study of compositional styles and practices of Western art music since the late 19th century including practical application in composition: Covers advanced chromaticism, impressionism, serialism, basic set theory, and jazz harmony.
Note: Not open to students who have taken the equivalent course, MUSC B4d. Formerly MUSC B4d.
Hours: 54 lecture
CCS: Credit Course
C-ID: MUS 150
Transferable: UC, CSU and private colleges

MUSC B5A Class Piano
1 unit
Recommended: Reading - one level prior to transfer. English Level 6.
Description: Beginning study of piano. Includes instruction in note reading, technical exercises, and repertoire study. Intended for students preparing to teach in the elementary grades and for music majors specializing in voice or instruments, other than the piano.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B5B Class Piano
1 unit
Prerequisites: Demonstrated by audition of piano skill of at least MUSC B5a level.
Recommended: MUSC B5A with a grade of ‘C’ or better or equivalent. Reading - one level prior to transfer.
Description: Continuing study of piano beyond beginning level (MUSC B5a). Includes instruction in elementary keyboard theory, technical exercises, and repertoire study. Intended for students preparing to teach in the elementary grades and for music majors specializing in voice or instruments, other than the piano.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B6A Class Voice
1 unit
Recommended: Basic understanding of music fundamentals.
Description: Elementary solo vocal training. Emphasizes breath control, tone placement, posture, diction, and interpretive concepts.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B6B Class Voice
1 unit
Prerequisites: Demonstration by audition of skill of at least MUSC B6a level.
Description: Solo voice training. Emphasizes repertoire and further technical development beyond the level of MUSC B6a.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MUSC B6C Class Voice
1 unit
Prerequisites: Demonstration by audition of skill of at least MUSC B6b level.
Description: Solo voice training. Emphasizes repertoire and further technical development beyond the level of MUSC B6b.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MUSC B6D Class Voice
1 unit
Prerequisites: Demonstration by audition of skill of at least MUSC B6c level.
Description: Solo voice training. Emphasizes repertoire and further technical development beyond the level of MUSC B6d.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

MUSC B7 Applied Music
1 unit
Prerequisite: Enrollment open only to students who pass a qualifying audition.
Corequisites: Must be concurrently enrolled in a music ensemble (MUSC B10A, MUSC B12A, MUSC B13A or MUSC B14A) Must be concurrently enrolled in one of the following music theory/ear training course combinations or have completed the entire sequence with a grade of ‘C’ or better in each course: MUSC B2, MUSC B4A/B15A, MUSC B4B/B15B, or MUSC B4C/B15C.
Description: Individual and group instruction in solo performance for music majors culminating in a juried performance final. Includes instruction in technique, repertoire, and performance practice. Designed for students with significant prior experience/instruction with a particular instrument or singing.
Hours: 54 laboratory
Repeat: 3
CCS: Credit Course
MUSC B9A Beginning Class Guitar
1 unit
Prerequisites: MUSC B9a with a grade of 'C' or better or guitar playing ability of at least MUSC B9a level as determined by instructor.
Recommended: Reading - one level prior to transfer.
Description: A guitar course in sequence designed to teach the student how to play the guitar. Correct right and left hand technique, how to read guitar music, basic chords, finger-picking, scales, arpeggios, slurs, bar chords, and strumming. A suitable acoustic guitar is required.
Hours: 54 laboratory
C-ID: MUS 160
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B9B Intermediate Class Guitar
1 unit
Prerequisites: MUSC B9a with a grade of 'C' or better or guitar playing ability of at least MUSC B9a level as determined by instructor.
Recommended: Reading - one level prior to transfer. A suitable acoustic guitar is required.
Description: Intermediate techniques of guitar playing. Emphasizes advanced chord positions, scales, arpeggios, slurs, and bar chords.
Hours: 54 laboratory
C-ID: MUS 180
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B10A Concert Band
1 unit
Prerequisites: Audition.
Description: Rehearsal and performance of standard band literature. Participation in public performances such as concerts, assemblies, and additional rehearsals are required.
Hours: 54 laboratory
Repeat: 3
CCS: Liberal Arts/Science
C-ID: MUS 180
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B10B College Orchestra
1 unit
Prerequisites: Limitation on enrollment, audition required.
Description: Performance of standard works from the orchestra literature. An audition and field trips are required for this course.
Hours: 54 laboratory
Repeat: 3
CCS: Liberal Arts/Science
C-ID: MUS 180
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B12A Jazz Ensemble
1 unit
Prerequisites: Audition.
Recommended: Reading - one level prior to transfer.
Description: Practical experience working in various instrumental combinations and styles in the jazz tradition. Training in jazz literature, phrasing, ensemble playing, musicality, and creative improvisation leading to public performances on and off campus.
Hours: 54 laboratory
Repeat: 3
CCS: Credit Course
C-ID: MUS 180
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B14A College Choir
1.5 units
Prerequisites: Limitation on enrollment, audition required.
Description: Study of major choral literature of all the historical periods. Public performance required for credit. Field trips for performances are required.
Hours: 81 laboratory
Repeat: 3
CCS: Liberal Arts/Science
C-ID: MUS 180
Transferable: UC, CSU and private colleges; BC GE C.1

MUSC B15A Ear Training and Sight Singing
1 unit
Description: Drill in the singing and recognition of intervals, scales, and melodies with solfège syllables using moveable do. Practice in conducting and performing rhythms.
Hours: 54 laboratory
CCS: Liberal Arts/Science
C-ID: MUS 135
Transferable: UC, CSU and private colleges

MUSC B15B Ear Training and Sight Singing
1 unit
Prerequisites: MUSC B15A with a grade of 'C' or better.
Corequisite: Concurrent enrollment in MUSC B4b and MUSC B230B.
Description: This course applies and develops the rhythmic, melodic, and harmonic materials of MUSC B4b Elementary Theory through ear training, sight singing, analysis, and dictation.
Hours: 54 laboratory
CCS: Credit Course
C-ID: MUS 145
Transferable: UC, CSU and private colleges

MUSC B15C Intermediate Ear Training and Sight Singing
1 unit
Prerequisite: MUSC B15B with a grade of 'C' or better.
Corequisite: MUSC B4c and MUSC B230C must be taken concurrently.
Description: Aural skill training in chromatic, post-tonal, and jazz oriented materials including exercises in singing, rhythm performance/conducting, keyboard, dictation (melodic, rhythmic, and harmonic), and scale/mode/choral aural recognition.
Hours: 54 laboratory
CCS: Credit Course
C-ID: MUS 180
Transferable: UC, CSU and private colleges

MUSC B17A Chamber Singers
1.5 units
Prerequisites: Limitation on enrollment: Audition.
Description: A select choral group, specializing in rehearsal and performance of all choral literature for all historical periods. Public performance required for credit. Field trips for performances are required.
Hours: 81 laboratory
Repeat: 3
CCS: Liberal Arts/Science
C-ID: MUS 180
Transferable: UC, CSU and private colleges; BC GE C.1
MUSC B18A Drum Line

1-3 units
Prerequisites: Limitation on Enrollment, Audition required.
Description: Rehearsal and performance of drum line literature suitable for field, parade, and competition. Field trips and performances required.
NOTE: 54 hours of lab for each unit of credit. MUSC B18A has a limit of 3 repeats.
Hours: 54 laboratory hours for each 1 unit (54-162)
Repeat: 3
 CCS: Credit Course
Transferable: UC, CSU and private colleges

MUSC B21A History of Music

3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Historical survey of western music from the Greco-early Christian era to the present. Uses recorded music and musical scores to study changing musical styles.
Hours: 54 lecture
 CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B21B History of Music

3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Historical survey of western art music from the music of Beethoven to the present. Uses recorded music and musical scores to study changing musical styles.
Hours: 54 lecture
 CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B22 Music Appreciation

3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to appreciation of music with an emphasis on Western art music: historical development is surveyed with recordings, videos, multi-media computer presentations, and live performances as illustrations for directed listening as a basis for appreciation.
Hours: 54 lecture
 CCS: Liberal Arts/Science
C-ID: MUS 100
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B23 Appreciation of Jazz

3 units
Recommended: Reading - one level prior to transfer or writing – one level prior to transfer.
Description: Comparative survey of jazz styles, musicians, and representative works. Students learn core musical concepts, engage in directed listening activities, attend live concerts, and discuss the various theoretical, aesthetic, and philosophical ideas that inspire the creation of jazz music.
Hours: 54 lecture
 CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B24 A Survey of World Music

3 units
Recommended: Reading and Writing - one level prior to transfer.
Description: An introductory course surveying the dominant musical cultures of the new and non-western world with comparisons to European/western music. Emphasizes listening to and participation in world music through lecture, films, recording, live presentations, and class performance.
Hours: 54 lecture
 CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.1; BC GE C.1

MUSC B27 History of Rock and Roll

3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to the historical and stylistic developments of rock music, with emphasis on its social, economic and political consequences.
Hours: 54 lecture
 CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

MUSC B28 Drum and Bugle Corps

2 units
Prerequisites: Limitation on Enrollment, Audition required.
Description: Rehearsal and performance of drum corps literature suitable for field, parade, and competition. Field trips and performances required.
Hours: 108 laboratory
Repeat: 3
 CCS: Credit Course
Transferable: CSU and private colleges

MUSC B30 Introduction to Music Technology

3 units
Recommended: Reading - one level below transfer.
Description: This course introduces the basics of how technology and music interact. There will be an emphasis on audio software and hardware, basic principles of sound, digital audio workstations, MIDI, synthesis, and sequencing. Particular attention will be paid toward making connections between analog and digital technological contexts. Lab activity consists of self-directed projects which make use of software and hardware found in the typical digital audio studio.
Hours: 54 lecture
Repeat: 3
 CCS: Credit Course
Transferable: CSU and private colleges

MUSC B31 Commercial Music Composition

3 units
Recommended: Reading - one level below transfer.
Description: This course explores the process of songwriting and commercial music composition. Songs and compositions will be analyzed on chord structure, form, rhythm, melody, harmony, and lyrics. Original compositions and performances are expected from all students. Emphasis on the development of musical and lyrical skills. Students will analyze harmonic, melodic, and rhythmic components of popular songs from a range of genres. Emphasis will be placed on relevant repertoire and the composition and performance of original material. Additional emphasis on commercial music composition for multimedia applications (jingles, production music,
soundtracks). Includes use of basic recording technology useful for the contemporary songwriter.

**MUSC B32 Sound Design and Synthesis**

**3 units**

**Prerequisite:** MUSC B30 with a grade of ‘C’ or better.

**Recommended:** Reading - one level below transfer.

**Description:** This course introduces and builds up properties of sound and how it functions acoustically and electronically. There will be an emphasis on digital and analog synthesis, sampling, MIDI sequencing, film sound design, and other multimedia applications. Crucial to this exploration are considerations of the widespread use of sound synthesis and design in entertainment industry. The course culminates with a sound design reel and portfolio consisting of original electronic music compositions, multimedia applications, and sound design treatments.

**Hours:** 36 lecture 54 laboratory

**CCS:** Credit Course

**Transferable:** CSU and private colleges

**MUSC B33 Live Sound**

**3 units**

**Prerequisite:** MUSC B30 with a grade of ‘C’ or better.

**Recommended:** Reading - one level below transfer.

**Description:** Introduction to live sound systems and aspects of reinforcement and acoustical design. Emphasis on components and function of live sound systems including microphones, mixers, effects, power amplifiers, and speaker systems. Focus on setup, operation, maintenance, safety, health, and other workplace issues. Student will gain hands-on experience at local venues and/or events with opportunities to troubleshoot, sound check, and mix in live sound situations.

**Hours:** 54 activity

**CCS:** Credit Course

**Transferable:** CSU and private colleges

**MUSC B34 Recording Techniques I**

**3 units**

**Prerequisite:** MUSC B30 with a grade of ‘C’ or better.

**Recommended:** Reading - one level below transfer.

**Description:** This course covers the fundamental aspects of work in the modern recording studio. Emphasis on commonalities between project and professional studio contexts. Topics include microphone technique, recording consoles, signal chain, signal processors, patchbays, monitoring, mastering, producing, and synchronization.

**Hours:** 36 lecture 54 laboratory

**CCS:** Credit Course

**Transferable:** CSU and private colleges

**MUSC B35 Recording Techniques II**

**3 units**

**Recommended:** MUSC B30 and B34. Reading – one level below transfer.

**Description:** This course builds upon the fundamental aspects covered in Recording Techniques I. Emphasis on mixing, mastering, advanced automation techniques, production techniques, film sound synchronization.

**Hours:** 36 lecture 54 laboratory

**CCS:** Credit Course

**Transferable:** CSU and private colleges

**MUSC B36 Music Business**

**3 units**

**Recommended:** Reading – one level below transfer.

**Description:** An overview of the music industry including publishing, music merchandising, contracts and licenses, retail concerns, and live entertainment. Additional examination of duties and responsibilities of producers, agents, managers, promoters, and performing artists. Emphasis on new media marketing and exposure to diverse careers and streams of income within industry. Students build portfolio in preparation for career in music industry.

**Hours:** 54 lecture

**CCS:** Credit Course

**Transferable:** CSU and private colleges

**MUSC B37 Commercial Music Ensemble**

**1 unit**

**Prerequisite:** Limitation on Enrollment, Basic skill on instrument

**Description:** Participation in small ensemble concentrating on popular styles, improvisation, and other aspects of commercial music performance.

**Hours:** 54 activity

**Repeat:** 3

**CCS:** Credit Course

**Transferable:** CSU and private colleges; BC GE C1

**MUSC B54A College Chorale**

**1 unit**

**Prerequisites:** Previous experience in a choral group and demonstrated proficiency.

**Recommended:** Reading - one level prior to transfer.

**Description:** Select choral ensemble of mixed voices specializing in the rehearsal and performance of major choral works. Repertoire is selected from choral literature of all periods. Field trips for performances are required.

**Hours:** 54 laboratory

**Repeat:** 3

**CCS:** Liberal Arts/Science

**Transferable:** Not degree applicable. Not transferable.

**MUSC B54B College Chorale**

**1 unit**

**Prerequisites:** Previous experience in a choral group and demonstrated proficiency.

**Recommended:** Reading - one level prior to transfer.

**Description:** Select choral ensemble of mixed voices specializing in the rehearsal and performance of major choral works. Repertoire is selected from choral literature of all periods. Field trips for performances are required.

**Hours:** 54 laboratory

**CCS:** Liberal Arts/Science

**Transferable:** Not degree applicable. Not transferable.

**MUSC B54C College Chorale**

**1 unit**

**Prerequisites:** Previous experience in a choral group and demonstrated proficiency.

**Recommended:** Reading - one level prior to transfer.

**Description:** Select choral ensemble of mixed voices specializing in the rehearsal and performances of major choral works. Repertoire is selected from choral literature of all periods. Field trips for performances are required.

**Hours:** 54 laboratory

**CCS:** Liberal Arts/Science

**Transferable:** Not degree applicable. Not transferable.
MUSC B54D College Chorale

1 unit
Prerequisites: Previous experience in a choral group and demonstrated proficiency.
Recommended: Reading - one level prior to transfer.
Description: Select choral ensemble of mixed voices specializing in the rehearsal and performance of major choral works. Repertoire is selected from choral literature of all periods. Field trips for performances are required.
Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

MUSC B230A Music Laboratory

0.5 unit
Description: A computer-based, positive attendance course featuring self-pacing programmed system instruction in one of two self-directed music technology areas: reading transcribing, and performing rhythmic, harmonic, and melodic elements of music and/or generating, manipulating, editing, and producing digital audio content by gaining experience with digital audio workstations (DAWs). Offered on a Pass/No Pass basis.
Hours: 27 laboratory
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

MUSC B230B Music Laboratory

0.5 unit
Description: A computer-based, positive attendance course featuring self-pacing programmed system instruction in one of two self-directed music technology areas: reading, transcribing, and performing rhythmic, harmonic, and melodic elements of music and/or generating, manipulating, editing, and producing digital audio content by gaining experience with digital audio workstations (DAWs).
Hours: 27 laboratory
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

MUSC B230C Music Laboratory

0.5 unit
Description: A computer-based, positive attendance course featuring self-pacing programmed system instruction in one or two self-directed music technology areas: reading, transcribing, and performing rhythmic, harmonic, and melodic elements of music and/or generating, manipulating, editing, and producing digital audio content by gaining experience with digital audio workstations (DAWs).
Hours: 27 laboratory
CCS: Liberal Arts/Science
Transferable: Not degree applicable. Not transferable.

Natural Resources

Management Courses

NRES B1 Range Management

3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer. Mathematics - one level prior to transfer.
Description: Basic range management and improvement practices. Proper utilization of rangeland resources. Overview of multiple
use principles. Maintenance and improvement of range plant communities. Field trips required.
Hours: 36 lecture, 54 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

NRES B2 Parks and Outdoor Recreation

3 units
Recommended: Reading - one level prior to transfer.
Description: Introduction to national, state, county, city, and private park systems. History, philosophy, policy and principles of the formation, administration and functioning of recreational units at the park, district and regional levels.
Hours: 54 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

Nutrition Courses

NUTR B10 Elementary Nutrition

3 units
Recommended: Reading and writing - one level prior to transfer.
Description: Basic concepts and principles of nutrition with application to current nutrition issues. Emphasizes improvement of personal health through proper eating habits.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

NUTR B50 Modified Diets

2 units
Prerequisites: NUTR B10 with a grade of C.
Recommended: Reading - one level prior to transfer.
Description: Nutrition care for acute illnesses and chronic diseases. Related normal and abnormal physiology, nutrition assessment and care plans and client education techniques are emphasized. Field trips may be required.
Hours: 36 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

Ornamental Horticulture Courses

ORNH B1 Introduction to Ornamental Horticulture

3 units
Description: General course in environmental horticulture with emphasis on nursery operations, landscaping, turf management, and floral industries including: basic botany, cultural practices, propagation, structures and layout, pest management, planting, container gardening and houseplants, floral design, plant identification, turf grass installation and care, and survey of career opportunities. Laboratory required. Field trips required.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

ORNH B2 Fundamentals of Nursery Management and Plant Production

3 units
Recommended: Reading - one level prior to transfer and Writing - one level prior to transfer.
Description: This is an introductory class in nursery business operations, skills, and processes appropriate to the horticulture

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industry in California. Emphasis will be placed upon laws/ regulations, record keeping, budgeting, computer skills, professional organizations, cooperatives, merchandising, salesmanship, and communications. Propagation media, nursery designs, propagation, structures, seedage, cuttage, plant structure, rooting aids, transplanting, stepping up, and potting will be covered.

**ORNH B3 Landscape Installation and Maintenance**

3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Enhancing the function and aesthetic value of public and private landscapes by applying appropriate installation and maintenance techniques in Kern County and California. Topics include; sustainability, planting, pruning, watering, soil fertility, pest management, weed control, and landscape maintenance business practices. Laboratory required.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**Transferable:** CSU and private colleges

**ORNH B4 Plant Propagation**

3 units

**Recommended:** Reading and writing - one level prior to transfer.

**Description:** Principles of sexual propagation, seedage, and asexual propagation, budding, grafting, cuttings, layering, division and separation. Principles of tissue culture.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Credit Course

**C-ID:** AG-EH 116L

**Transferable:** CSU and private colleges

**ORNH B6 Ornamental Plant Identification-Ground Covers, Vines, and Dwarf Shrubs**

3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Identification, habits of growth, culture and landscape use of dwarf shrubs, vines, ground covers, annuals, and seasonal plants, adapted to the Central Valley of California and the surrounding regions. Covers those plants best observed and studied in the fall of the year. Plant materials from local regions will also be included. Plants emphasized will come from the current California Association of Nurseries & Garden Centers (CANGC) and Professional Landcare Network (PLANET) Certification Tests Plant Lists. Laboratory required. Field trips required.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**C-ID:** AG-EH 116L

**Transferable:** CSU and private colleges

**ORNH B7 Ornamental Plant Identification-Large Shrubs, Small Trees, Large Trees, and Palms**

3 units

**Description:** Identification, habits of growth, culture and landscape use of large shrubs, small trees, large trees and palms adapted to the Central Valley of California and the surrounding mountains. Field trips required.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Occupational Education

**C-ID:** AG-EH 112L

**Transferable:** UC, CSU and private colleges

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**Philosophy Courses**

**PHIL B6A Introduction to Philosophy**

3 units

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** A method, problems, multicultural and historical approach to philosophy. Epistemology (the study of knowledge), metaphysics (the study of reality), ethics (the study of morality), and philosophy of religion are covered from both traditional Western and non-Western sources.

**Hours:** 54 lecture

**CCS:** Liberal Arts/Science

**C-ID:** PHIL 100

**Transferable:** UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2
PHIL B7 Introduction to Logic
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Traditional basics of correct reasoning with an emphasis on their relationships to language, thought and argument.
Hours: 54 lecture
CCS: Credit Course
C-ID: PHIL 110
Transferable: UC, CSU and private colleges; CSU GE A.3; BC GE B.2

PHIL B9 Critical Thinking and Advanced Composition
3 units
Prerequisites: ENGL B1A with a grade of 'C' or better.
Description: Development of critical thinking skills necessary for evaluating and formulating argumentative/persuasive essays, and practice in applying those skills.
Hours: 54 lecture
CCS: Credit Course
Transferable: UC, CSU and private colleges; IGETC 1.B; CSU GE A.3; CSU GE C.2; BC GE B.2

PHIL B10 Introduction to Ethics
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Examination of the philosophical approach to morality. Study of the meaning of ethics and morality and methods used in ethical theorizing and reasoning. Emphasizes major ethical issues and theories. Discusses how to set up an ethical system.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: PHIL 120
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

PHIL B12 Ethics of Living and Dying
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A philosophical yet practical approach to some of the major medical-ethical problems facing human beings today, such as: what patients should be told, the nature and importance of informed consent, the meaning and criteria for living, dying, and death including caring for the dying, and allowing to die, mercy killing. Permeating these problems will be a study of the basis for ethical relationships among human beings through a study of what morality is, consequentialist and nonconsequentialist theories of morality, and how to set up an ethical system. Special emphasis will be placed on the relationship of the professional and the well to the sick, dying, and bereaved.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

PHIL B18 History of Ancient Philosophy
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A survey of the development of Western philosophy from the Pre-Socratic to the Hellenistic philosophers with particular emphasis on the philosophies of Plato and Aristotle. The focus throughout will be on analyzing and evaluating the central arguments of these philosophers as well as understanding how their views have contributed to the subsequent development of philosophy, science, art, and literature.
Hours: 54 lecture
CCS: Liberal Arts/Science
C-ID: PHIL 130
Transferable: CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

PHIL B37 Introduction to World Religions
3 units
Recommended: Reading - one level prior to transfer.
Description: A survey of three Western religions - Judaism, Christianity, and Islam, and three Eastern Religions - Confucianism, Hinduism and Buddhism. Examines each religions history, sacred scriptures, geographic dispersion, primary theological concepts and spiritual practices, and contemporary role. Emphasis on understanding the distinct belief and practice of an individual in each of these religious traditions.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; IGETC 3.B; CSU GE C.2; BC GE C.2

Physical Education Courses

PHED B1A Educational Planning for College Athletes
1 unit
Prerequisite: Limitation on Enrollment, this class is designed for identified student athletes.
Description: Designed to assist student athletes in understanding college matriculation, educational plans, and collegiate transfer requirements. Satisfies the 0.5 unit educational planning requirement for graduation from Bakersfield College.
Hours: 18 lecture
CCS: Credit Course
Associate Degree Only. Not Transferable.

PHED B2SB Aquatics: Beginning Swimming
1 unit
Description: A semester course in beginning swimming in which the focus is on the knowledge and skill necessary to handle the body with ease in the water. The course covers basic mechanical, physiological and psychological concepts, fundamental safety skills and basic swimming strokes for the 4 competitive swimming strokes. (Free, Back, Breast, Fly)
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 54 activity
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE E

PHED B3ADP Adaptive Physical Education
1 unit
Description: Individualized fitness class for the physically challenged (as verified by D.S.P.S.) with activities designed to emphasize resistive circuit training combined, when possible, with aerobic training.
Note: Students who are physically challenged may contact DSPS to determine if they qualify to enroll in the course again. Justification must be documented by a DSPS counselor.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
PHED B6A Coeducational and Individual Activity: Archery
1 unit
Description: Archery as a lifelong physiological and social activity. An elementary course in archery to include target archery and field archery.

Note: UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

Hours: 54 activity
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE E

PHED B6BB Coeducational and Individual Activity: Basketball
1 unit
Description: Basketball as a lifelong physiological, psychological and social activity. Skills, strategies, rules and etiquette of basketball.

Note: UC campuses give a maximum of four semester units of credit for Physical Education activity units.

Hours: 54 activity
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE E

PHED B6BBLB Coeducational and Individual Activity: Beginning Ballet (DANC B6BBLB)
1 unit
Description: Co-educational beginning ballet course. Includes warm-up exercises, technical skills and terminology.

Note: Not open to students who have completed DANC B6BBLB.

Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.

Hours: 54 activity
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE E

PHED B6FCX Coeducational and Individual Activity: Fitness Center
1 unit
Description: Circuit training with resistance machines (weights), supplemented with a variety of aerobic based equipment.

Stresses the development of muscle mass/tone, endurance and cardiovascular fitness. Not recommended for competitive weight lifters.

Note: UC Campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

Hours: 54 activity
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE E

PHED B6G Coeducational and Individual Activity: Golf
1 unit
Description: This course includes instruction in technique, tactics, and physical conditioning related to the sport of golf.

Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.

Hours: 54 activity
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE E

PHED B6JD Coeducational Team and Individual Activity: Jazz Dance (DANC B6JD)
1 unit
Description: Fundamental Jazz techniques and fundamental terminology of ballet as they relate to jazz dancing: including warm-up exercises for the preparation of the human body as an instrument for dance. Different styles and rhythms of jazz dance and music for jazz dance will be introduced. Note: Not open to students who have completed DANC B6JD.

Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.

Hours: 54 activity
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE E

PHED B6SC Coeducational and Individual Activity: Soccer
1 unit
Description: Soccer as a lifelong physiological, psychological and social activity. Training in the fundamental skills of soccer. Understanding of the rules of the game, safety and basic strategy of play.

Note: UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

Hours: 54 activity
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE E

PHED B6T Coeducational and Individual Activity: Tennis
1 unit
Description: Tennis as a lifelong physiological, psychological and social activity. Student will learn basic tennis skills, rules, strategies and etiquette.

Note: UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

Hours: 54 activity
CCS: Credit Course
Transferable: UC, CSU and private colleges; BC GE E

PHED B6V Coeducational and Individual Activity: Beginning Volleyball
1 unit
Description: An elementary course in volleyball to include instruction in techniques, tactics, and physical conditioning related to the sport of volleyball.

Note: UC campuses give a maximum of four semester units of credit for appropriate Physical Education activity courses.

Hours: 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges; BC GE E

PHED B6WT Coeducational and Individual Activity: Weight Training
1 unit
Description: Coeducational course stressing correct application of weight training principles used with "free weights." Instruction in the correct and safe use of "free weights" to develop strength, endurance and general conditioning.

Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.

Hours: 54 activity
Repeat: 1
PHED B10 Intercollegiate Competition for Men: Football
3 units
Prerequisite: Limitation on Enrollment, Students must meet athletic code eligibility requirements.
Description: Intercollegiate competition for Men’s Football team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 162 activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B11 Intercollegiate Competition for Men: Basketball
1.5 units
Prerequisite: Limitation on Enrollment, Students must meet athletic code eligibility requirements.
Description: Intercollegiate competition for Men’s Basketball team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 81 activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B12 Intercollegiate Competition: Track and Field
3 units
Prerequisite: Limitation on Enrollment, Must meet Athletic Eligibility standards.
Description: Intercollegiate competition for the Track and Field team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 162 activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B13 Intercollegiate Competition for Men: Tennis
3 units
Prerequisite: Limitation on Enrollment, Students must meet athletic code eligibility requirements

PHED B14 Intercollegiate Competition for Men: Baseball
3 units
Prerequisite: Limitation on Enrollment, Students must meet athletic code eligibility requirements.
Description: Intercollegiate competition for Men’s Baseball team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 162 activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B15 Intercollegiate Competition for Men: Golf
2 units
Prerequisite: Limitation on Enrollment, Students must meet athletic code eligibility requirements.
Description: Intercollegiate competition for Men’s Golf team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 180
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B16 Intercollegiate Competition for Men: Golf
3 units
Prerequisite: Limitation on Enrollment, Students must meet athletic code eligibility requirements.
Description: Intercollegiate competition for Men’s Golf team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 162 activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B17 Intercollegiate Competition for Men: Cross Country
2 units
Description: Intercollegiate competition for Men’s Cross Country team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 180
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B18 Intercollegiate Competition for Men: Wrestling
2 units
Description: Intercollegiate competition for Men’s Wrestling team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 180
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E
PHED B22 Intercollegiate Competition for Women: Tennis
3 units
Description: Intercollegiate competition for Women's Tennis team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 162 activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B23 Intercollegiate Competition for Women: Soccer
2 units
Description: Intercollegiate competition for Women's Soccer team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 180 activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B24 Intercollegiate Competition for Women: Golf
3 units
Prerequisite: Limitation on Enrollment, Students must meet athletic code eligibility requirements.
Description: Intercollegiate competition for Women's Golf team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 162 activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B25 Intercollegiate Competition for Women: Volleyball
2 units
Description: Intercollegiate competition for Women's Volleyball team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 180
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B28 Intercollegiate Competition for Women: Basketball
1.5 units
Prerequisites: Limitation on Enrollment, Students must meet athletic code eligibility requirements.
Description: Intercollegiate competition for Women's Basketball team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 54 activity
Repeat: 3
CCS: Credit Course

PHED B29 Intercollegiate Competition for Women: Softball
2 units
Description: Intercollegiate competition for Women's Softball team. Student must meet athletic code eligibility requirements. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 180
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B32 Shape Up
3 units
Description: An integration of physiological, psychological and sociological understandings of the human being in relationship to physical activity as a lifelong pursuit. Topics include physical fitness, stress reduction benefits of exercise, nutrition, socialization and individual differences in human behavior.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 18 lecture, 108 activity
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B33 Intercollegiate Swimming
3 units
Prerequisite: Limitation on Enrollment, Credit limitations may apply. For specific information see a counselor or the transfer institution. An athlete must be continuously enrolled in a minimum of 12 units during the season of competition. Those competing in a sport must successfully complete 24 units to be eligible for a second season of competition. A 2.0 grade point average must be maintained to be eligible to participate.
Description: Intercollegiate coeducation competition. Field trips may be required.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 162 Activity
Repeat: 3
CCS: Credit Course
Transferable: UC, CSU and private colleges; CSU GE E; BC GE E

PHED B34C Intercollegiate Conditioning
1 unit
Description: Intercollegiate athletics course emphasizing preseason conditioning. Enrollment is limited to athletic team candidates and includes, sport specific aerobic and anaerobic conditioning, drill technique, strength conditioning, speed development and game play. Students who repeat this course will improve skills and fitness through further instruction and practice.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 54 activity
Repeat: 3
CCS: Credit Course
PHED B34WT Intercollegiate Weight Training
0.5-2 units
Prerequisite: Limitation on Enrollment, enrollment in intercollegiate athletics.
Description: Intercollegiate athletics course emphasizing weight training. Enrollment is limited to athletic team candidates and includes, sport specific aerobic and anaerobic weight training, appropriate technique, strength conditioning, speed development and explosive exercises. Students who repeat this course will improve strength, flexibility, and fitness through detailed instruction and practice.
Note: UC Campuses give a maximum of four semester units of credit for Physical Education activity units.
Hours: 27 activity hours for each .5 unit (27-108)
Repeat: 3
CCS: Credit Course
Transferable: CSU and private colleges

PHED B36 First Aid and CPR
3 units
Recommended: Reading - one level prior to transfer.
Description: This course involves the theory and detailed demonstration of the first aid care of the injured. The student will learn to assess a victim's condition and incorporate proper treatment. Standard first aid, C.P.R. and AED certification(s) will be granted upon successful completion of requirements.
Materials Fee: $27.00
Hours: 54 lecture
CCS: Credit Course
C-ID: KIN 101
Transferable: UC, CSU and private colleges; BC GE E

PHED B39A Prevention and Care of Athletic Injuries
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer. BIOL B32 and BIOL B33 with grades of ‘C’ or better.
Description: An introduction to the field of sports medicine. Evaluation, rehabilitation and prevention of athletic injuries. Major emphasis will be on prevention of injuries and performance enhancement, through pre-screening for potential biomechanical deficiencies, strength training, conditioning, flexibility, nutrition and proper hydration techniques. The instructor will properly advise students who take this course of limitations and proper skills applications. Field trip required.
Hours: 36 lecture, 54 laboratory
CCS: Credit Course
Transferable: UC, CSU and private colleges

PHED B39B Advanced Athletic Training
3 units
Recommended: BIOL B32 and BIOL B33
Description: Evaluation and rehabilitation of athletic injuries; exposure to various physical therapy modalities and prevention of injuries will be discussed. The athletic trainer will properly advise students who take this course of limitations and proper skills applications. Field trips required.
Hours: 36 lecture, 54 laboratory
CCS: Liberal Arts/Science
Transferable: UC, CSU and private colleges

PHED B41 Recreation Leadership
3 units
Description: Survey of employment opportunities in the field of recreation. Students will learn the meaning and scope of recreation leadership, the problems of organization, types of activities and elements of leadership.
Hours: 54 lecture
CCS: Liberal Arts/Science
Transferable: CSU and private colleges

PHED B42 Introduction to Kinesiology
3 units
Recommended: Reading and Writing - one level prior to transfer.
Description: This course is an introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions.
Hours: 54
CCS: Liberal Arts/Science
Repeat: 3
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

PHED B50 Intercollegiate Conditioning
1 unit
Description: Pre-season intercollegiate athletics. Enrollment is limited to athletic team candidates and includes, sport specific aerobic and anaerobic conditioning, drill technique, strength conditioning, speed development and game play. Students who repeat this course will improve skills and fitness through further instruction and practice.
Hours: 54 activity
Repeat: 3
CCS: Credit Course

PHED B53 Intercollegiate Weight Training
.5 – 2 units
Prerequisite: Limitation on Enrollment, only students who are identified as intercollegiate student athletes will be eligible to enroll. This course is designed for students who are participating in a competitive sport at Bakersfield College.
Description: Intercollegiate athletics course emphasizing weight training. Enrollment is limited to athletic team candidates and includes, sport specific aerobic and anaerobic weight training, appropriate technique, strength conditioning, speed development and explosive exercises. Students who repeat this course will improve strength, flexibility, and fitness through detailed instruction and practice.
Hours: 27 – 108
CCS: Credit Course
Not Degree Applicable. Not Transferable.

Physical Science Courses

PHSC B12 Physical Science
4 units
Prerequisites: MATH B60 with a grade of ‘C’ or better or assessment of math level 3 (MATH B70 ready)
Recommended: Reading - one level prior to transfer.
Description: Introduces facts, principles and laws from physics and chemistry. Includes motion, force, energy, electricity and magnetism, waves, atom, periodic laws, ions, solutions, chemical reaction, organic chemistry.
Hours: 54 lecture, 54 laboratory
Physics Courses

PHYS B2A General Physics-Mechanics and Heat
4 units
Prerequisites: MATH BD/MATH B70 with a grade of ‘C’ or better.
Corequisites: MATH B1A (may be taken concurrently)
Description: The properties of matter, mechanics and heat. Emphasizes understanding laws, principles, and theories. Required for most science, premedical, most other pre-professional and technical majors.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
C-ID: PHYS 105
Transferable: UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; CSU GE B.3; BC GE B.1

PHYS B2B General Physics-Sound, Light, Electricity, Magnetism, Modern Physics
4 units
Prerequisites: MATH B1B and PHYS B2A with a grade of ‘C’ or better.
Description: The second in a 2-course algebra/trigonometry-based general physics sequence required of many science, premedical, and other pre-professional and technical majors. Includes electricity and magnetism, geometrical and physical optics, quantum physics, atomic physics, nuclear physics, and relativity. Emphasizes principles, laws, and problem solving.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
C-ID: PHYS 110
Transferable: UC, CSU and private colleges

PHYS B4A Mechanics and Wave Motion
4 units
Prerequisites: MATH B6A with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer.
Description: The first in a sequence of three semester courses required of physics, engineering, and other majors requiring a thorough physics background. Includes vectors, kinematics, dynamics, momentum, energy, rotation, gravitation, oscillations, fluids, and wave motion.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
C-ID: PHYS 205
Transferable: UC, CSU and private colleges; IGETC 5.A; IGETC 5.C; CSU GE B.1; CSU GE B.3; BC GE B.1

PHYS B4B Heat, Electricity, Magnetism
4 units
Prerequisites: PHYS B4A and MATH B6B with grades of ‘C’ or better.
Recommended: MATH B6C.
Description: Second of a three-course calculus-based physics sequence required of physics, engineering, and other majors requiring a thorough physics background. Includes thermodynamics, electricity, magnetism, AC circuits, electromagnetic oscillations, and electromagnetic radiation. Emphasizes principles, laws and problem-solving.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
C-ID: PHYS 210

PHYS B4c Optics and Modern Physics
4 units
Prerequisites: PHYS B4B and MATH B6B with grades of ‘C’ or better.
Description: Third of a three-course calculus-based physics sequence required of physics, engineering, and other majors requiring a thorough physics background. Includes geometric and physical optics, relativity, quantum physics, quantum mechanics, atomic and molecular physics, and nuclear physics. Emphasizes principles, laws, and problem solving.
Hours: 54 lecture, 54 laboratory
CCS: Credit Course
C-ID: PHYS 215
Transferable: UC, CSU and private colleges

Political Science Courses

POLS B1 American Government: National, State and Local
3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: A study of American government with emphasis on the national government. Includes a comprehensive analysis of governmental structure, functions, principles and problems. Includes analysis of California state and local governments. Partially satisfies the requirements in U.S. Constitution, American history and institutions and California state and local government.
Hours: 54 lecture
CCS: Credit Course
C-ID: POLS 110
Transferable: UC, CSU and private colleges; IGETC 4; CSU GE D.8; BC GE D.2; BC GE D.3

POLS B2 Comparative Government
3 units
Recommended: ENGL B50 with a grade of ‘C’ or better. Reading - one level prior to transfer.
Description: A comparative analysis of government structures and the underlying economic, social, and cultural systems of the principal nations of the industrial world: United States, United Kingdom, France, Federal Republic of Germany, Russia, and Japan. Additional emphasis on certain nations in sensitive geographic area or countries whose size and developing economics make them important, such as the People's Republic of China, Brazil, Mexico, Iran, India and Nigeria.
Hours: 54 lecture
CCS: Credit Course
C-ID: POLS 130
Transferable: UC, CSU and private colleges; IGETC 4; CSU GE D.8; BC GE D.2

POLS B3 International Politics
3 units
Recommended: Reading - one level prior to transfer.
Description: Surveys the dynamics and ideologies of present-day international politics and rivalries. Development of the national state system and the evolution of the techniques and arts of diplomacy, and the causes of war.
Hours: 54 lecture
CCS: Credit Course
C-ID: POLS 140
PSYC B1A General Psychology

3 units
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Emphasis is on the scientific process and research methods employed in psychology. Biological, developmental, cognitive, and sociocultural theories are covered to explain psychological phenomena. Psychopathological disorders and the evolving corresponding treatment protocols are applied to a diversity of individuals and groups.
Hours: 54 lecture
C-ID: PSY 110
Transferable: Transferable: UC, CSU and private colleges; IGETC 4; CSU GE D.9; CSU GE E; BC GE D.1; BC GE E

PSYC B1B Biological Psychology

3 units
Prerequisite: PSYC B1A with a grade of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Writing – one level prior to transfer.
Description: Ethical standards and current research methodologies for studying brain-behavior relationships and mental processes in all life forms. Emphasis placed on using empirical analysis to understand and solve problems related to mechanisms underlying neural conduction and synaptic transmission, sensory and perceptual systems, plasticity, and brain damage, development, learning, and memory, hunger, sex, drug use, sleep, lateralization of function and psychopathological disorders. Designed for psychology majors planning for upper division work in psychology.
Hours: 54 lecture
C-ID: PSY 150
Transferable: UC, CSU and private colleges; IGETC 4; CSU GE B.1; BC GE B.1

PSYC B5 Elementary Statistics for the Behavioral and Social Sciences

4 units
Prerequisites: Mathematics – one level prior to transfer
Description: Statistics as applied to the behavioral and social sciences. Introduces terminology and measurement scales associated with basic statistics used in behavioral and social research. Emphasizes appropriate application and interpretation of measures of central tendency, variation, and correlation in the use of parametric and nonparametric statistical hypothesis testing.
Note: Not open to students who have successfully completed BEHS B5.
Hours: 72 lecture
C-ID: SOCI 125
Transferable: UC, CSU and private colleges; IGETC 2; CSU GE B.4; BC GE B.2

PSYC B6 Research Methods for the Behavioral and Social Sciences

4 units
Prerequisites: PSYC B1A and PSYC B5 with grades of ‘C’ or better.
Recommended: Reading - one level prior to transfer. Writing - one level prior to transfer.
Description: Emphasis is on behavioral and social science research processes and methods including: problem definition and hypothesis formation, research design, ethical treatment of participants, data collection and analysis, application of statistical software, and professional report writing. Students will collect and analyze data from both experimental and non-experimental research methods.
Hours: 72 lecture
C-ID: PSY 200
Transferable: UC, CSU and private colleges; IGETC 4; CSU GE D.9; BC GE B.2

PSYC B10 Social Psychology

3 units
Recommended: Reading – one level prior to transfer. Writing – one level prior to transfer.
Description: Examines the effects of social influence on individual behavior: including the study of conformity, obedience, persuasion, attitude formation and attitude change. The role of social judgment, aggression, prejudice, prosocial behavior, attraction, and
interpersonal relationships are also examined. The scientific method and research strategies in social psychology are employed.  

**Note:** Not open to students who have successfully completed SOCI B20.  

**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** PSY 170  
**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.9; CSU GE D.10; BC GE D.1; BC GE D.2

### PSYC B21 Special Projects in Psychology  
**1 unit**  
**Recommended:** Evaluation by instructor and PSYC B1A with a grade of ‘C’ or better.  
**Description:** Development of psychological research and/or preparation for teaching within the psychological field. Focus is on empirical methodology and/or assistance with data entry, development and assessment.  
**Hours:** 54 laboratory  
**CCS:** Liberal Arts/Science  
**Transferable:** CSU and private colleges

### PSYC B30 Human Sexuality  
**3 units**  
**Recommended:** PSYC B1A and Reading - one level prior to transfer and Writing - one level prior to transfer  
**Description:** Emphasis on the biopsychosocial aspects of human sexuality from childhood to old age: Examination of the human sexual system, the sexual act, changing sexual attitudes and behavior, gender identity issues, sexual health, sexual orientation, sexual problems and their treatments, and sexual communication. Exploration of legal and ethical aspects of sexuality.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** PSY 130  
**Transferable:** UC, CSU and private colleges; CSU GE E; BC GE E

### PSYC B33 Psychology of Personal and Social Adjustment  
**3 units**  
**Recommended:** Reading – one level prior to transfer. Writing – one level prior to transfer.  
**Description:** Emphasis on the biopsychosocial aspects of personal growth and adjustment: Examination of different psychological perspectives and theoretical foundations and how these are applied across a person's life taking into account the influence of culture, gender, ethnicity, historical, cohort, and social-economic status. A broad understanding of how scientists, clinicians, and practitioners study and apply psychology is emphasized.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** PSY 115  
**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.9; CSU GE E; BC GE D.1; BC GE E

### PSYC B40 Introduction to Lifespan Psychology  
**3 units**  
**Recommended:** Reading – one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Provides an overview, from a psychological perspective, of human development from conception through death, including biological and environmental influences. Biopsychosocial development and cognitive and physical changes are examined in light of historical and contemporary research and theory for the growing child, adolescent, and adult.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** PSY 180  
**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.7; CSU GE D.9; CSU GE E; BC GE D.1

## Public Health

### PBHS B20 Introduction to Public Health  
**3 units**  
**Description:** This course provides an introduction to the discipline of Public Health. Students will gain an understanding of the basic concepts and terminologies of public health, as well as the history and accomplishments of public health officials and agencies. The course will provide an overview of the functions of various public health professions and institutions, and an in-depth examination of the core public health disciplines. Topics will include epidemiology of infectious and chronic disease; prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease; illness and health disparities among various populations; community organizing and health promotion programming; environmental health and safety; global health; and healthcare policy and management.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

### PBHS B21 Personal Health and Wellness  
**3 units**  
**Description:** This course focuses on the exploration of major public health issues and behaviors within the dimensions of health. Emphasis is placed on individual responsibility for personal health and the promotion of informed, positive health behaviors with a focus on community wellness and behavioral change. Topics include nutrition, exercise, weight control, mental health, stress management, violence, substance abuse, reproductive health, disease prevention, aging, healthcare, and environmental hazards and safety.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

### PBHS B22 Drugs, Health, and Society  
**3 units**  
**Description:** This course provides an overview of the epidemiology and toxicology of substance abuse and its relevance to personal and public health. Students will be introduced to the concept of substance abuse and dependence, the definition of licit and illicit drugs, and the pharmacologic, neurologic and physiologic effects of selected substances on the human brain. The course will explore and discuss the political, social and economic factors involved in the supply and demand for drugs. The course will cover epidemiologic data on the prevalence, incidence, and trends of smoking, alcohol, prescription and other drug dependencies in the U.S. as well as risk factors associated with the use and abuse of these substances. Coursework will include a survey of current options for drug addiction recovery, as well as, available resources to support prevention and intervention of drug addiction.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges
PBHS B23 Health and Social Justice

3 units
Prerequisite: ENGL B50 or ACDV B50 with a grade of ‘C’ or better.
Description: This course provides an introduction to the health inequities in the United States that stem from unequal living and health conditions. Students will explore how education, socioeconomic status, racism and gender shape health epidemics and policy development. The course will provide the basic skills necessary for advocating for health and social justice, as well as provide the theoretical concepts on health disparities and the relationship with social justice.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

Registered Nursing Courses

NURS B20 Fundamentals of Nursing

4 units
Prerequisites: Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director.
Description: Level 1 course introduces the concepts of the professional nurse, nursing skills, beginning leadership, health care environment, growth and development across the lifespan, basic physiologic and human needs in health and illness, and providing a safe environment. Beginning critical thinking skills are emphasized, within the framework of the nursing process. Correlated clinical experiences are provided with adult patients who have basic health problems with predictable outcomes. The roles of Provider of Care, Manager of Care, and Member of the Profession are introduced and integrated throughout the course.
Hours: 36 lecture, 108 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

NURS B21 Medical Surgical Nursing 1

5 units
Prerequisites: Appropriate standing in the Associate Degree Nursing Program
Description: This level 1 course introduces medical surgical nursing concepts and practices as they relate to adult clients across the lifespan. Using the nursing process as the framework, the student will begin to recognize alterations in function or illness, and formulate age appropriate nursing interventions. Correlated clinical experiences are provided with adult patients who have basic health problems with predictable outcomes. The roles of Provider of Care, Manager of Care, and Member of the Profession are introduced and integrated throughout the course.
Materials Fee: $27.00
Hours: 45 lecture, 135 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

NURS B22 Pharmacology

3 units
Prerequisites: Admission and appropriate standing in the Associate Degree Nursing Program.
Description: This Level 1 course provides the foundation knowledge base related to pharmacology in nursing, including both theoretical and mathematical aspects. Course uses the nursing process as the framework, and addresses the roles of provider of care, manager of care, and member of the profession. Fundamental principles of pharmacodynamics, pharmacokinetics, legal and ethical issues, and nursing responsibilities are covered. Information regarding intravenous drug administration is limited to pharmacokinetics. The drug classes most commonly used in clinical practice are presented. Additionally, information regarding basic mathematical calculations related to medication administration is introduced.
Hours: 54 lecture
CCS: Credit Course
Transferable: CSU and private colleges

NURS B23 Medical Surgical Nursing 2

4.5 units
Prerequisites: Appropriate standing in the Associate Degree Nursing Program
Description: This Level 2 course focuses on the development of the knowledge base and skills to care for patients across the lifespan, in various settings, who have higher acuity and more complex nursing needs. The nursing process is the framework for identification and treatment of health problems, and other concerns. Correlated clinical experiences emphasize clinical decision making, patient care management, including prioritization of care, and development of psychomotor skills. Leadership and management knowledge and skills are integrated in both the theory and clinical components. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated throughout the course.
Materials Fee: $27.00
Hours: 45 lecture, 108 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

NURS B24 Obstetrics - Maternity Nursing

3 units
Prerequisites: Admission and appropriate standing in the Associate Degree Nursing Program.
Description: This Level 2 course provides a foundation for theoretical and technical knowledge base while caring for the contemporary family centered childbirth. Parent/newborn issues are viewed from a nursing process approach for the antepartum, intrapartum, postpartum, and neonatal client. Correlated clinical experiences emphasize clinical decision making, patient care management, including prioritization of care, and development of psychomotor skills. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated in both the theory and the clinical components.
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

NURS B25 Mental Health Psychiatric Nursing

3.5 units
Prerequisites: Admission to the Associate Degree Nursing Program and appropriate standing in the Nursing Program.
Description: This Level 2 course provides an introduction to Psychiatric Mental Health Nursing, using the nursing process as the framework to promote psychosocial integrity within the context of the health illness continuum across the life span. Emphasis is on therapeutic interactions and communications, bio-psychosocial rehabilitation and therapeutic use of self. Correlated clinical experiences will provide opportunities for students to participate in therapeutic activities in a variety of mental health settings. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated in both the theory and the clinical components.
Hours: 36 lecture, 81 laboratory
CCS: Credit Course
Transferable: CSU and private colleges
NURS B26 Medical Surgical Nursing 3
5.5 units
Prerequisites: Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director.
Description: Level 3 course focuses on the application of previously learned knowledge as well as the development of more in-depth knowledge for adult clients across the lifespan who have more diverse and complex disease states. The nursing process is the framework used in this course to present topics, such as leadership, critical thinking, pharmacology and safety. Correlated clinical experiences are provided with adult patients who have increasingly complex outcomes. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated and analyzed throughout the didactic and clinical experiences.
Materials Fee: $27.00
Hours: 27 lecture, 27 laboratory
CS: Occupational Education
Transferable: CSU and private colleges

NURS B27 Pediatric Nursing
3.5 units
Prerequisites: Admission to the Associate Degree Nursing Program and appropriate standing in the Nursing Program.
Description: This Level 3 course provides a foundation for pediatric nursing using growth and development concepts as a framework for presenting problems and special concerns of the pediatric patient. Communication, anticipatory guidance, response to hospitalization, legal and ethical issues and health care of pediatric clients are discussed. Correlated clinical experiences emphasize clinical decision making, patient care management, including prioritization of care, and development of psychomotor skills. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated in both the theory and the clinical components.
Hours: 27 lecture, 108 laboratory
CS: Occupational Education
Transferable: CSU and private colleges

NURS B28 Medical Surgical Nursing 4
7 units
Prerequisites: Appropriate standing in the Associate Degree Nursing Program.
Description: This capstone course focuses on the application of previously learned knowledge and skills, though analysis and synthesis. The nursing process is used as the framework for providing nursing care to clients who have critical and complex medical conditions. Correlated clinical experiences emphasize refinement of clinical decision making, formulating and revising priorities of care; psychomotor skills and patient care management. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated to promote success in transitioning from student to entry level Registered Nurse.
Materials Fee: $27.00
Hours: 54 lecture, 216 laboratory
CS: Credit Course
Transferable: CSU and private colleges

NURS B29 Gerontology - Community Nursing
2 units
Prerequisites: Appropriate standing in the Associate Degree Nursing Program or evaluation of skills and knowledge by the Program Director.
Description: Level 4 course integrates previous medical surgical knowledge and leadership skills as it applies to the aging adult. The Nursing process framework is used to explore the lifestyle and physical changes that occur with aging, apply the process of initiating health referrals and propose the outcome criteria for evaluating the aging individual's response to teaching/learning. Correlated clinical experiences will emphasize the application of interventions that will increase the older adults functional ability. The roles of Provider of Care, Manager of Care, and Member of the Profession are integrated throughout the didactic and clinical experiences.
Hours: 18 lecture, 54 laboratory
CS: Occupational Education
Transferable: CSU and private colleges

NURS B33 Advanced Pharmacology
2 units
Prerequisites: Appropriate standing in the Associate Degree Nursing Program.
Description: Advanced pharmacology is the development of the theoretical and technical knowledge base necessary in meeting advanced pharmacological needs of the client in a variety of settings. The course uses the nursing process as the framework and addresses the roles of provider of care manager of care, and member of the profession. Professional issues and concepts for nursing practice related to intravenous therapy are presented including techniques of intravenous therapy and intravenous drug administration. The student will apply the advanced pharmacology principles in the clinical setting in all nursing courses.
Hours: 27 lecture, 27 laboratory
CS: Occupational Education, Credit - not degree applicable
Transferable: Not degree applicable. Not transferable.

NURS B48WE Occupational Work Experience Education
1-8 units
Prerequisites: Declared major or occupational goal and evaluation of student's qualifications and objectives.
Description: College credit for registered nursing related learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student. Occupational work experience credit may accrue at the rate of 1 to 8 units per semester for a total of sixteen units, and students must work 75 paid hours or 60 non-paid hours per unit. Repetition allowed per Title 5 55253.
Hours: Non-paid 60 hours for each 1 unit (60 - 480). Paid 75 hours for each 1 unit (75 - 600).
CS: Credit Course
Transferable: CSU and private colleges

NURS B70 Role Transition: Bridging Nursing Theory to Practice
2 units
Prerequisites: LVN or RN licensure and Limitation on Enrollment, Appropriate standing in the Associate Degree Nursing Program.
Description: Prerequisite: LVN or RN licensure. This Level 3 course is designed for the LVN who is pursing licensure as an RN or the RN who wants to update skills to re-enter the workforce. The focus is on the development of critical thinking skills, physical assessment, the nursing process, role transition, and clinical skill competencies. The roles of provider of care, manager of care, and member of the profession are integrated throughout the course. The lab correlates with the didactic portion and provides an opportunity for application of concepts in the Nursing Skills lab.
Hours: 27 lecture, 27 laboratory
CS: Credit Course
Transferable: Associate Degree only. Not transferable.
NURS B100 Strategies for Success in a Nursing Program
2 units
Description: Designed to prepare students for successful completion of the nursing program. The students will be given an overview of the program requirements and expectations and they will acquire information and skills that facilitate student success once admitted into the program. Students will also explore nursing career options which will guide the development of their educational plan. Satisfies the 0.5 unit educational planning requirement for graduation from Bakersfield College. Pass/No Pass grading only.
Hours: 36 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

NURS B201A Learning Lab
1 unit
Prerequisites: Enrollment into the ADN or LVN program or nursing student with evaluation of skills and knowledge by the ADN Program Director.
Description: An on-campus laboratory designed for self-paced practice and mastery of nursing skills necessary for providing safe client care throughout the program. This level 1 course provides instructional guidelines to assist students to refine newly acquired skills and develop the competency level expected of entry level nurses. Multimedia and computer assisted instructional materials which support the semester learning objectives are available. Subsequent enrollment in additional semesters will offer the student an opportunity for additional skill and competency development within the subject matter.
Note: Offered credit/no credit grading only. Open entry/open exit. Formerly NURS B201L.
Hours: 54 laboratory
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

NURS B201B Learning Lab
1 unit
Prerequisites: Appropriate standing in the Associate Degree Nursing Program.
Description: An on-campus laboratory designed for self-paced practice and mastery of nursing skills necessary for providing safe client care throughout the program. This level 2 course builds upon content from level one curriculum and provides instructional guidance to assist students in refining newly acquired skills and to develop the expected competencies for level two students.
Note: open entry/open exit
Hours: 54 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

NURS B201C Learning Lab
1 unit
Prerequisites: Appropriate standing in the Associate Degree Nursing Program.
Description: An on-campus laboratory designed for self-paced practice and mastery of nursing skills necessary for providing safe client care throughout the program. This level three course builds upon content from level two curriculum and provides instructional guidance to assist students to refine newly acquired skills and develop the expected competencies for level two students.
Note: open entry/open exit
Hours: 54 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

NURS B201D Learning Lab
1 unit
Prerequisites: Appropriate standing in the Associate Degree Nursing Program.
Description: An on-campus laboratory designed for self-paced practice and mastery of nursing skills necessary for providing safe client care throughout the program. This level four course builds upon content from all previous levels of the curriculum and provides instructional guidance to assist students to refine newly acquired skills and develop the competency level expected of entry level nurses.
Note: open entry/open exit
Hours: 54 laboratory
CCS: Credit Course
Transferable: Not degree applicable. Not transferable.

Radiologic Technology Courses

RADT B1A Introduction to Radiologic Technology
2 units
Prerequisites: Enrollment into the Radiologic Technology Program and MATH BD/B70.
Description: Orientation to the duties and responsibilities of the Radiologic Technologist. Emphasizes the medical use of radiation, interpersonal communication, ethics, radiation safety and protection, foundations and futures of medicine and radiology, hospital and departmental operations, professional development and quality assurance. Assistance in understanding program requirements.
Hours: 36 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

RADT B1B Patient Care
2 units
Prerequisites: Enrollment into the Radiologic Technology Program and BIOL B18.
Description: Introduction to the basic concepts of patient care in the field of radiography. Instruction and demonstration in aseptic and non-aseptic techniques, infection control, body mechanics, transfer and immobilization techniques, vital signs, oxygen therapy administration, medical emergencies, and contrast media.
Hours: 36 lecture
CCS: Occupational Education
Transferable: CSU and private colleges

RADT B2A Radiographic Anatomy and Positioning 1
3 units
Prerequisites: RADT B1a, RADT B1b and RADT B4b with grades of 'C' or better.
Description: Instruction and laboratory practice in radiographic positioning of the chest, abdomen, lower and upper extremities, arthrography, bone surveys and bone densitometry with correlated film anatomy.
Hours: 36 lecture, 54 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

RADT B2B Radiographic Anatomy and Positioning 2
3 units
Prerequisites: RADT B2A, RADT B3A, and RADT B4B with grades of 'C' or better.
Description: Instruction and laboratory practice in radiographic positioning of the vertebral column, bony thorax, gastrointestinal, biliary and urinary systems with correlated film anatomy.

Hours: 36 lecture, 54 laboratory

CCS: Credit Course
Transferable: CSU and private colleges

RADT B2C Radiographic Anatomy and Positioning 3

Prerequisites: Completion of second summer session of Radiologic Technology Program.

Description: Instruction and laboratory practice in radiographic positioning of the head and skull with correlated film anatomy. Introduction to the principles of mammography, angiography and interventional imaging with correlated anatomy.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education
Transferable: CSU and private colleges

RADT B3A Radiographic Principles 1

Prerequisites: RADT B1A and RADT B4A with grades of ‘C’ or better.

Description: Principles of x-ray tube construction, prime exposure factors, beam restriction and scatter radiation, grids, radiographic film, image receptors and intensifying screens, image processing, sensitometry and digital imaging.

Hours: 36 lecture, 54 laboratory

CCS: Credit Course
Transferable: CSU and private colleges

RADT B3B Radiographic Principles 2

Prerequisites: RADT B2A, B3A, B4B, and B12 with grades of ‘C’ or better. These courses are equivalent to completion of the first semester of the Radiologic Technology Program.

Description: Principles of radiographic image analysis including density, contrast, detail and distortion. Principles of exposure control systems, mobile radiography, and fluoroscopy.

Hours: 36 lecture, 54 laboratory

CCS: Occupational Education
Transferable: CSU and private colleges

RADT B4A Introduction to Clinical Education

1.5 units

Prerequisites: Acceptance into the Radiologic Technology Program. BIOL B18 or BIOL B32 or BIOL B33 with a grade of ‘C’ or better.

Description: Introduction to clinical education includes job shadowing and observation in patient transportation techniques, image processing, patient registration, equipment orientation, general patient care and safety.

Materials Fee: $20.00

Hours: 81 laboratory

CCS: Credit Course
Transferable: CSU and private colleges

RADT B4B Clinical Education 1

4 units

Prerequisites: RADT B4A with a grade of ‘C’ or better.

Description: Supervised clinical experiences are provided to develop skills in basic radiographic procedures. Fundamentals of anatomy, positioning and technical factors for imaging quality, radiation safety and protection.

Materials Fee: $20.00

Hours: 240 laboratory

CCS: Credit Course
Transferable: CSU and private colleges

RADT B5 Radiation Physics

3 units

Prerequisites: Enrollment in Radiologic Technology Program.

Description: Fundamentals of physics, radiologic quantities and units, the atom, electromagnetic radiation, electricity and magnetism, x-ray equipment, x-ray production, filtration, x-ray interaction with matter, radiation protection and quality assurance.

Hours: 72 lecture, 18 laboratory

CCS: Occupational Education
Transferable: CSU and private colleges

RADT B6 Clinical Education 2

5 units

Prerequisites: RADT B4B with a grade of ‘C’ or better.

Description: Supervised clinical experiences provided to perfect skills in a variety of radiographic procedures. Case studies of radiographic procedures discussing the fundamentals of anatomy, positioning and technical factors of image quality are analyzed. Extension of radiographic procedures demonstrated in RADT B2A, B2B.

Materials Fee: $20.00

Hours: 18 lecture, 216 laboratory

CCS: Credit Course
Transferable: CSU and private colleges

RADT B7 Clinical Education 3

6.5 units

Prerequisites: RADT B2B and RADT B3A and RADT B6 with grades of ‘C’ or better.

Description: Supervised clinical experiences provided to perfect skills in a variety of radiographic procedures. Case studies of radiographic procedures discussing the fundamentals of anatomy, positioning and technical factors of image quality are analyzed. Extension of radiographic procedures demonstrated in RADT B2A, B2B.

Materials Fee: $20.00

Hours: 18 lecture, 302 laboratory

CCS: Credit Course
Transferable: CSU and private colleges

RADT B9A Sectional Anatomy for Medical Imaging

3 units

Prerequisites: Acceptance into the radiologic technology program.

Description: Sectional anatomy of the head, spine, thorax, abdomen and pelvis. Emphasis on computed tomography and magnetic resonance images and other imaging modalities using sectional anatomy.

Hours: 54 lecture

CCS: Occupational Education
Transferable: CSU and private colleges

RADT B10 Clinical Education 4

7 units

Prerequisites: RADT B7 with a grade of ‘C’ or better.

Description: Supervised clinical experiences are provided in advanced radiographic and fluoroscopic procedures. Case studies of radiographic procedures discussing anatomy, pathology, positioning and technical factors of image quality are analyzed on a case-by-case basis.

Materials Fee: $20.00
Sociology Courses

SOCI B1 Introduction to Sociology  
**3 units**  
**Recommended:** Reading - one level prior to transfer; Writing - one level prior to transfer.  
**Description:** The scientific study of human social behavior. This assumes that external forces shape individual behavior. The focus of this perspective is to identify, explain, and interpret these forces. As such, essential concepts, research methods, social institutions, and applications essential to the sociological perspective are examined.  
**Hours:** 18 lecture  
**CCS:** Credit Course  
**Transferable:** CSU and private colleges

SOCI B2 Problems of Modern Society  
**3 units**  
**Recommended:** Reading - one level prior to transfer; Writing - one level prior to transfer.  
**Description:** Studies the social problems of modern society, especially in the United States, in order to arrive at alternate methods of identification and measurement of social problems. An attempt to gain understanding by judging the probable results of proposed changes. Problems include deviant behavior, including crime and delinquency, alcoholism, family violence, deviant subcultures, problems of man in industrial society, including the industrial workers and white collar workers and also stress and mental illness.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**C-ID:** SOCI 110  
**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.10; BC GE D.2

SOCI B28 Introduction to Gender  
**3 units**  
**Recommended:** Reading - one level prior to transfer; Writing - one level prior to transfer.  
**Description:** Sociological analysis of the social construction of masculinity and femininity historically and cross-culturally. It examines the debate on sex and gender and analyzes the impact of economic and political change on gender expectation and practices.
It focuses macro-analyses on how institutions shape gender and micro-analyses on how individuals are socialized and how they practice gender.

**Hours:** 54 lecture
**CCS:** Credit Course
**C-ID:** SOCI 140

**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.3; CSU GE D.4; CSU GE D.10; CSU GE E; BC GE D.2

### SOCI B36 Sociology of the Chicano

**Recommended:** Reading - 1 Level Prior to Transfer. Writing - 1 Level Prior to Transfer.

**Description:** Historical review of the sociocultural and cultural characteristics of Chicanos in the United States. Focus is on the inter-relationships of Chicanos and the society including their immigration history, acculturation, assimilation, minority status and their cultural change, by generation status. Not open to students who have taken the equivalent course, CHST B36.

**Hours:** 54 lecture

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.3; CSU GE D.10; BC GE D.2

### SOCI B45 Minority Relations

**3 units**

**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.

**Description:** Examination of the relationships among dominant and minority groups and related concepts and theories: Review of the immigration history, acculturation, assimilation, minority status and resultant social patterns reflecting their acculturation and structural assimilation. Those experiences unique to African Americans, women, and religious groups are also included. Not open to students who have taken the equivalent course, HMSV B45.

**Hours:** 54 lecture

**CCS:** Credit Course

**C-ID:** SOCI 150

**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE D.3; CSU GE D.10; BC GE D.2

### Soil Science Courses

### SOIL B1 Introduction to Soil Science

**3 units**

**Recommended:** Reading and writing - one level prior to transfer. Mathematics - two levels prior to transfer.

**Description:** Core agriculture course; required of all agriculture majors. Problems pertaining to the soil which are important in the profitable production of plants, including physical properties of soils, fertilizers, crop rotation, erosion and salt control, cultivation problems and irrigation.

**Hours:** 36 lecture, 54 laboratory

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; BC GE B.1

### Spanish Courses

### SPAN B1 Elementary Spanish I

**4 units**

**Recommended:** Writing - one level prior to transfer and Reading - one level prior to Transfer.

**Description:** Introduction to Spanish language and culture by means of a program that involves video, audio, and print media in an integrated method of planned immersion. Students will develop language skills that include reading, writing, listening comprehension and oral production.

**Note:** Not open to students who have taken the equivalent course, SPAN B1AB.

**Hours:** 72 lecture

**CCS:** Credit Course

**C-ID:** SPAN 100

**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE C.2; BC GE C.1; BC GE C.2

### SPAN B2 Elementary Spanish II

**4 units**

**Prerequisite:** SPAN B1 or SPAN B1AB with a grade of ‘C’ or better.

**Recommended:** Writing - one level prior to transfer and Reading - one level prior to transfer.

**Description:** This course continues using the "planned immersion approach" begun in SPAN B1. It explores new tenses and moods of the language and continues vocabulary enhancement, development of oral production and writing, integrating aspects of the Spanish culture.

**Note:** Not open to who have taken the equivalent course, SPAN B2AB.

**Hours:** 72 lecture

**CCS:** Credit Course

**C-ID:** SPAN 110

**Transferable:** UC, CSU and private colleges; IGETC 4; CSU GE C.2; BC GE C.2

### SPAN B3 Intermediate Spanish I

**4 units**

**Prerequisite:** SPAN B2/SPAN B2AB with a grade of ’C’ or better (or Native Speaker or Equivalent).

**Recommended:** Reading - one level prior to transfer.

**Description:** Intensive grammar review of the Spanish language, supplemented with reading selections of Spanish and Latin American authors with the purpose of nourishing an understanding of the Spanish culture.

**Note:** Not open to students who have successfully completed SPAN B35.

**Hours:** 72 lecture

**CCS:** Credit Course

**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2

### SPAN B4 Intermediate Spanish II

**4 units**

**Prerequisite:** SPAN B3 or SPAN B35 with a grade of ’C’ or better.

**Description:** Continued advanced readings from Spanish and Latin American authors, and continued intensive grammar review of the Spanish language preparing students for upper division work in literature and language. Note: Not open to students who taken the equivalent course, SPAN B36.

**Hours:** 72 lecture

**CCS:** Liberal Arts/Science

**C-ID:** SPAN 210

**Transferable:** UC, CSU and private colleges; IGETC 3.B; IGETC 6.A; CSU GE C.2; BC GE C.2
**SPAN B35 Spanish for Heritage Speakers I**
4 units

**Recommended:** Heritage speaker or near heritage speaker abilities and skills.

**Description:** This course is designed for students whose native language is Spanish but need to improve their writing, grammar, vocabulary, and spelling skills. Strong emphasis will be placed on punctuation, accent rules, composition, grammar, vocabulary and reading. The course is taught entirely in Spanish.

**Note:** Not open to students who taken the equivalent course, SPAN B3.

**Hours:** 72 lecture

**CCS:** Credit Course

**C-ID:** SPAN 220

**Transferable:** UC, CSU and private colleges; IGETC 6.A; CSU GE C.2; BC GE C.2

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**SPAN B36 Spanish for Heritage Speakers II**
4 units

**Prerequisite:** SPAN B35 with a grade of ‘C’ or better.

**Description:** This course is a continuation of Spanish B35 and is designed for students whose native language is Spanish but need to improve their academic skills in the language. This course will focus on advanced grammar concepts, subjunctive tenses, sequence of tenses, extensive writing and reading. The writing and reading skills will be strengthened as well as vocabulary building. The course is taught entirely in Spanish.

**Note:** Not open to students who taken the equivalent course, SPAN B4, or who have taken SPAN B10.

**Hours:** 72 lecture

**CCS:** Credit Course

**C-ID:** SPAN 230

**Transferable:** UC, CSU and private colleges; IGETC 6.A; CSU GE C.2

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**Special Studies Courses**

**SPST B48 Special Studies: Honors**
0.5-2 units

**Description:** Study and projects planned to provide an enriched academic experience for students not being served in regularly scheduled courses. It is planned to meet the needs of superior students whose background and interests indicate that they could profit from study and projects in a subject area. The course will be designed according to the subject field’s studies. Field trips may be required.

**Hours:** 9 lecture hours for .5 unit (9-36)

**CCS:** Credit Course

**Transferable:** CSU and private colleges

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**SPST B49 Special Studies: Honors**
0.5-2 units

**Description:** Seminars and/or individual conferences by arrangement. Independent, individual study planned to provide an enriched academic experience for students not being served in regularly scheduled courses. Meets the needs of superior students whose background and interests indicate that they could profit from individual study in a subject area. The course will be designed according to the subject field studies, i.e. Special Studies/German. Field trips may be required.

**Hours:** 9 hours for .5 unit

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges

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**SPST B49L Special Studies Lab: Honors**
1-2 units

**Description:** Seminars and/or individual conference by arrangement. Independent, individual study planning to provide an enriched academic experience for students not being served in regularly scheduled courses. It is planned to meet the needs of superior students whose background and interests indicate that they could profit from individual study in a subject area. The course will be designated according to the subject field of studies, i.e. Special Studies/German. Field trips may be required.

**Hours:** 54 hours for 1 unit

**CCS:** Liberal Arts/Science

**Transferable:** UC, CSU and private colleges

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**SPST B201 Special Projects and Studies**
1-3 units

**Description:** Special projects of studies in an area not being served by regularly scheduled courses. Students are required to meet periodically with a faculty advisor to review progress in the study program. Field trips may be required.

**Hours:** 18 lecture hours for unit (18-54)

**CCS:** Liberal Arts/Science

**Transferable:** Not degree applicable. Not transferable.

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**SPST B201L Special Projects and Studies**
1-3 units

**Description:** Special projects of studies in an area not being served by regularly scheduled courses. The student is required to meet periodically with a faculty advisor to review progress in the study program. Maximum 6 units. Field trips may be required.

**Hours:** 54 hours for 1 unit

**CCS:** Liberal Arts/Science

**Transferable:** Not degree applicable. Not transferable.

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**Student Development Courses**

**STDV B1 Educational Planning**
0.5 unit

**Recommended:** Reading - one level prior to transfer

**Description:** Designed to assist students in understanding college requirements and to help them in making educational plans. Required for the associate degree. Satisfies the 0.5 units educational planning requirement for graduation from Bakersfield College.

**Note:** Required for both the AA and AS degrees.

**Hours:** 9 lecture

**CCS:** Liberal Arts/Science

**Transferable:** CSU and private colleges

---

**STDV B2 Career Decision Making/Planning**
1.5 units

**Recommended:** Reading - one level prior to transfer

**Description:** An introduction to career search and strategies. Provides an overview of the career decision making process including goal setting, decision making and research in the job market. Satisfies the 0.5 educational planning graduation requirement for Bakersfield College.

**Hours:** 27 lecture

**CCS:** Liberal Arts/Science

**Transferable:** CSU and private colleges
### Bakersfield College 2016-2017 Catalog

#### Liberal Arts/Science

##### Theatre Arts Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Transferable</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA B1</td>
<td>Introduction to Acting</td>
<td>3</td>
<td>Designed for either theatre majors, or, non-majors. Emphasizes mastery of self as the key to creative process of communication and performance through improvisation, theatre games, concentration, pantomime, etc.</td>
<td>THEA B1 with a grade of 'C' or better or by audition.</td>
<td>UC, CSU and private colleges; CSU GE C.1; BC GE C.1</td>
</tr>
<tr>
<td>THEA B2A</td>
<td>Elements of Acting</td>
<td>3</td>
<td>This course is an exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process as it relates to scripted materials such as monologues, scenes and full plays.</td>
<td>THEA B1 with grades of ‘C’ or better or by audition.</td>
<td>UC, CSU and private colleges; CSU GE C.1; BC GE C.1</td>
</tr>
<tr>
<td>THEA B2B</td>
<td>Elements of Acting</td>
<td>3</td>
<td>This course is an exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process as it relates to scripted materials such as monologues, scenes and full plays.</td>
<td>Reading - one level prior to transfer.</td>
<td>UC, CSU and private colleges; CSU GE C.1; BC GE C.1</td>
</tr>
<tr>
<td>THEA B12A</td>
<td>Introduction to Shakespeare</td>
<td>3</td>
<td>Examination of Shakespeare's use of verse and prose, imagery, language, developing style, themes, and character development as applied to production concerns. Emphasis is the reading of four representative plays.</td>
<td>Reading - one level prior to transfer.</td>
<td>UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1</td>
</tr>
<tr>
<td>THEA B2A</td>
<td>Elements of Acting</td>
<td>3</td>
<td>This course is an exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process as it relates to scripted materials such as monologues, scenes and full plays.</td>
<td>Reading - one level prior to transfer.</td>
<td>UC, CSU and private colleges; CSU GE C.1; BC GE C.1</td>
</tr>
</tbody>
</table>

### Technical Mathematics Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Transferable</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECM B52</td>
<td>Industrial Math and Quality Control</td>
<td>3</td>
<td>Introduces precision measurement and the application of statistical quality control (SQC) in industry.</td>
<td>Reading - two levels prior to transfer.</td>
<td>UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1</td>
</tr>
<tr>
<td>TECM B53</td>
<td>Career, Life, and Educational Planning</td>
<td>2</td>
<td>This course guides students through a decision-making process that will help them envision and plan for a future that is productive, achievable, and stimulating.</td>
<td>Reading - one level prior to transfer.</td>
<td>UC, CSU and private colleges; CSU GE C.1; BC GE C.1</td>
</tr>
<tr>
<td>TECM B56</td>
<td>Tools for College Success</td>
<td>3</td>
<td>Introduces the understanding of the acting process through acting. The emphasis will be placed on deepening the understanding of the acting process as it relates to scripted materials such as monologues, scenes and full plays.</td>
<td>Reading - one level prior to transfer.</td>
<td>UC, CSU and private colleges; CSU GE C.1; BC GE C.1</td>
</tr>
<tr>
<td>THEA B14</td>
<td>Introduction to Stage Costume</td>
<td>3</td>
<td>Students will study costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated.</td>
<td>Reading - one level prior to transfer.</td>
<td>UC, CSU and private colleges</td>
</tr>
<tr>
<td>THEA B16</td>
<td>Stagecraft</td>
<td>3</td>
<td>Basic set construction, scenic painting, construction materials, stage properties, tools and equipment, special effects, lighting and sound, stage management.</td>
<td>Reading and Writing - one level prior to transfer.</td>
<td>UC, CSU and private colleges</td>
</tr>
<tr>
<td>THEA B20</td>
<td>Introduction to Theatre</td>
<td>3</td>
<td>Recommended: Reading and Writing - one level prior to transfer.</td>
<td></td>
<td>UC, CSU and private colleges</td>
</tr>
</tbody>
</table>
**THEA B37 Acting Theatre Laboratory**  
1-3 units  
**Prerequisites:** Audition.  
**Recommended:** Reading - one level prior to transfer.  
**Description:** The rehearsal and production of both main stage and experimental theatre dramas. Theatre activity for the beginner or expert in acting.  
**Hours:** 54 lecture  
**Repeat:** 3  
**CCS:** Liberal Arts/Science  
**C-ID:** THTR 191  
**Transferable:** UC, CSU and private colleges; BC GE C.1

**THEA B28 Technical Theatre Laboratory**  
1 unit  
**Recommended:** Reading - one level prior to transfer.  
**Description:** Participation in set construction, lighting, makeup, costume, properties, or any other technical area of theatrical productions.  
**Hours:** 54 laboratory  
**Repeat:** 3  
**CCS:** Credit Course  
**C-ID:** THTR 192  
**Transferable:** UC and private colleges

**THEA B31 Introduction to Film Studies**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Designed to give the student a heightened awareness and appreciation of films through viewing, discussing and writing about them. The critical viewing and discussion of film will provide the basis for the development of aesthetic appreciation.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

**THEA B32 Contemporary Film Studies**  
3 units  
**Recommended:** Reading - one level prior to transfer. Writing - one level prior to transfer.  
**Description:** Designed to give the student a heightened awareness and appreciation of genre film categories through viewing various genre films, discussing and writing about them.  
**Hours:** 54 lecture  
**CCS:** Credit Course  
**Transferable:** UC, CSU and private colleges; IGETC 3.A; CSU GE C.1; BC GE C.1

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**Vocational Nursing Courses**

**VNRS B1 Nursing Fundamentals**  
3 units  
**Prerequisites:** Admission to the Vocational Nursing Program.  
**Corequisite:** VNRS B1LV  
**Description:** Provides a foundation of basic nursing arts and sciences necessary for the practice of nursing. Professional issues and trends of nursing are identified along with the development of an understanding of the nursing process. Concepts of the nurse, client and health care environment, professional nursing and nursing skills, growth and development of the adult, human needs in health and illness, basic physiological needs, and providing a safe environment are presented.  
**Hours:** 54 lecture  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**VNRS B1G Gerontological Nursing**  
1 unit  
**Prerequisites:** Admission to the Vocational Nursing Program.  
**Corequisite:** VNRS B1LV  
**Description:** Provides a foundation of basic gerontological nursing using demographics, theories of aging and growth and development concepts as a framework for presenting health problems and special concerns of the elderly. Legal and ethical issues, economics, and healthcare of older adults using a nursing process approach are discussed.  
**Hours:** 18 lecture  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**VNRS B1LV Vocational Nursing Laboratory**  
6 units  
**Prerequisites:** Admission to the Vocational Nursing Program and concurrent enrollment in VNRS B1 and VNRS B75 and VNRS B1G.  
**Description:** Laboratory course correlated with the first semester theory course in the Vocational Nursing Program. The major focus will be on learning fundamental nursing skills with application in geriatric and medical-surgical settings. Incorporated is the nursing process which utilizes the skills of assessment, planning, intervention and evaluation providing a systemic approach to nursing practice.  
**Hours:** 324 laboratory  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges

**VNRS B6 Pediatric Nursing**  
1.5 units  
**Prerequisites:** Appropriate standing in the Vocational Nursing Program.  
**Corequisite:** VNRS B97LV  
**Description:** Provides a foundation for pediatric nursing using growth and development concepts as a framework for presenting health problems and special concerns of the pediatric client. Communication, anticipatory guidance, response to hospitalization, legal and ethical issues and health care of pediatric clients are discussed. Appropriate standing in the VN Program and concurrent enrollment in VNRS B97LV are required.  
**Hours:** 27 lecture  
**CCS:** Occupational Education  
**Transferable:** CSU and private colleges
VNRS B7 Parent/Newborn Nursing
1.5 units
Prerequisites: Appropriate Standing in the Vocational Nursing Program
Corequisite: VNRS B87LV
Description: This course provides an overview of contemporary family-centered childbirth, incorporating the self-care movement and changing roles of the nurse. Legal and ethical issues of maternal/newborn nursing are discussed. Coverage of maternal/newborn nursing uses a nursing process approach for antepartum, intrapartum, postpartum, and neonatal care.
Hours: 27 lecture
CCS: Liberal Arts/Science
Transferable: CSU and private colleges

VNRS B50B Advanced Pharmacology, Part B
0.5 unit
Prerequisites: Appropriate standing in the VN Program and VNRS B31AB with a grade of ‘C’ or better.
Description: Designed to prepare the vocational nurse to function safely when administering medications to a group of clients. Students will be administering medications to more complex clients in the laboratory setting. Expounds on principles learned in NURS B31AB.
Hours: 9 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

VNRS B67 Principles of Pharmacology
2 units
Corequisites: VNRS B68 and VNRS B69 and VNRS B69L and appropriate standing in the Vocational Nursing Program.
Description: This course is designed to prepare the vocational nurse to function safely when administering medication. Using the nursing process as the framework, concepts of pharmacology, calculations, and nursing considerations that pertain to the safe administration of medication are presented.
Hours: 36 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

VNRS B68 Basic Medical Surgical Nursing Practice
3 units
Corequisites: VNRS B67 and VNRS B69 and VNRS B69L and appropriate standing in the Vocational Nursing Program.
Description: This Vocational Nursing theory course focuses on the application of the nursing process in common health/illness situations. Using the nursing process as a framework, emphasis is placed on the role of the vocational nurse as a provider of care in assisting the adult and geriatric patient with chronic disorders affecting the GI, GU endocrine, integumentary systems. Topics in basic nutrition are also presented including an overview of basic nutrients, basic therapeutic diets, and patient education specific to chronic conditions. Basic mental health concepts are introduced. Concepts in this course are correlated with the clinical settings presented in Foundations for Vocational Nursing Practice Lab.
Hours: 54 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

VNRS B69 Foundations for Vocational Nursing Practice
3 units
Corequisites: VNRS B67 and VNRS B68 and VNRS B69L and appropriate standing in the Vocational Nursing Program.
Description: This Vocational Nursing theory course begins with an introduction to the roles of the vocational nurse and provides a foundation of basic nursing arts and sciences necessary for the practice of nursing including concepts specific to the gerontological client. Using the nursing process as a framework, concepts of professionalism, growth and development, safety, and health concerns for the adult and geriatric population are discussed. Legal and ethical considerations, cultural diversity, the nursing process, and basic data collection are included as theory topics along with the presentation of basic mental health concepts applicable to the geriatric client. Fundamental nursing skills are discussed in detail with concurrent hands-on practice of skills.
Hours: 54 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

VNRS B69L Foundations for Vocational Nursing Practice Lab
6 units
Corequisites: VNRS B67 and VNRS B68 and VNRS B69 and appropriate standing in the Vocational Nursing Program.
Description: This Vocational Nursing laboratory course focuses on the provider of care role of the vocational nurse in assisting the adult and geriatric patient to meet essential activities of daily living. A beginning knowledge of nursing techniques and medication administration with an understanding of the principles, rationales, and procedures for each technique is emphasized. Using the nursing process as a framework, students will provide basic care for adult and geriatric patients with various uncomplicated diseases and disorders who require nursing intervention to meet basic human needs. Basic communication techniques for the adult and geriatric client with mental health disorders are integrated throughout. This clinical course includes experiences primarily in long term care clinical settings.
Materials Fee: $27.00
Hours: 324 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

VNRS B75 Medical Surgical Nursing 1
3.5 units
Prerequisites: Appropriate standing in Vocational Nursing Program.
Corequisite: VNRS B1LV
Description: This course provides a study of etiology, pathophysiology, assessment, planning and evaluation of adult clients with gastrointestinal, skin, eye, ear, upper airway, nutritional genitourinary, and fluid and electrolyte disorders. Integrated into course are beginning concepts of the therapeutic, use of drugs, diet therapy, and the physiological and psychosocial problems. Students are required to initiate critical thinking skills when dealing with clients and families. Concepts and skills in course are correlated in laboratory settings presented in the corresponding course VNRS B1LV.
Hours: 63 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

VNRS B79 Intermediate Medical Surgical Nursing
9 units
Prerequisites: Appropriate Standing in the Vocational Nursing Program and concurrent enrollment in VNRS B79L
Description: This Vocational Nursing theory course uses the nursing process as a framework to guide the development of critical thinking skills used to determine nursing actions for adult and geriatric...
patients with cancer and conditions affecting the cardiovascular, lymphatic, musculoskeletal, endocrine, and respiratory system. The role of the vocational nurse as a provider of care and manager of care related to leadership, supervision, and rehabilitation are also discussed. Care of the medical surgical patient with mental health disorders will be integrated. Concepts in this course will be correlated in the various laboratory settings presented in VNRS B79L (Intermediate Medical Surgical Lab).

**VNRS B79L Intermediate Medical Surgical Nursing Lab**

*6 units*

**Prerequisites:** Appropriate Standing in the Vocational Nursing Program and concurrent enrollment in VNRS B79.

**Description:** This Vocational Nursing laboratory course concentrates on the application of the nursing process and the continued development of the manager and provider of care roles for adult medical-surgical patients from various cultural and social backgrounds. Clinical experiences build on the basics of the first semester as students perform more advanced skills when providing nursing care to patients. Incorporated into the course is the utilization of intermediate assessment, planning, intervention and evaluation under clinical supervision. This clinical course includes acute care and rehabilitation settings which correlate with the topics presented in VNRS B79 (Intermediate Medical Surgical).

**Materials Fee:** $27.00

**Hours:** 324 laboratory

**CCS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

**VNRS B83 Critical Thinking and Leadership for the Vocational Nurse**

*1.5 units*

**Prerequisite:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B89L

**Description:** This Vocational Nursing theory course will focus on the concepts of critical thinking skills and clinical reasoning strategies utilizing a case study approach. Leadership skills, capabilities, and knowledge essential to the vocational nurse including roles and responsibilities, application of the nursing process to problem solving methods, and supervision and evaluation of the effectiveness and quality of care are discussed. Managerial traits, styles, roles, and models are also explored. Critical thinking skills and utilization of the nursing process in clinical decision-making will be presented and correlated to the laboratory setting in VNRS B9L (Advanced Medical Surgical Nursing Lab).

**Hours:** 27 lecture

**CCS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

**VNRS B84 Maternal Child Pharmacology**

*1 unit*

**Prerequisite:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B88L

**Description:** This Vocational Nursing theory course will reinforce and emphasize the basic principles of pharmacology and calculations necessary for safe and effective medication administration. The primary focus is on the pharmacology content and variables that influence drug therapy when caring for the child bearing family and the pediatric patient. Utilization of the pharmacological principles from this course will occur in the maternal/child clinical lab course (VNRS B88LMaternal/Child Nursing Lab).

**Hours:** 18 lecture

**CCS:** Credit Course

**Transferable:** Associate Degree only. Not transferable.

**VNRS B85 Medical Surgical Nursing II**

*2.5 units*

**Prerequisites:** Appropriate standing in the nursing program.

**Corequisite:** VNRS B85LV.

**Recommended:** Reading - one level prior to transfer

**Description:** Provides a study of etiology, pathophysiology, assessment, planning and evaluation of adult clients with cardiovascular, peripheral vascular and respiratory disorders. Knowledge imparted builds on nursing theory from the previous medical surgical nursing course (VNRS B75). Emphasis will be placed on developing critical thinking skills. Concepts and skills in this course will be correlated in the various laboratory settings presented in the corresponding course VNRS B85LV.

**Note:** Not open to students who have taken VNRS B80.

**Hours:** 45 lecture

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**VNRS B85LV Medical Surgical Nursing II – Clinical Laboratory**

*1.5 units*

**Prerequisites:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B85

**Description:** Lab course which is correlated with the corresponding medical surgical course in the Vocational Nursing Program. Focus of course is team leading, time management in caring for two clients, providing medications to a group of clients, and improving on skills learned in Medical Surgical Nursing I. Incorporated into this course is team leading, time management, and supervision and evaluation under clinical supervision. Knowledge imparted builds on nursing theory from the previous medical surgical nursing courses (VNRS B75, VNRS B85). Emphasis will be placed on developing critical thinking skills. Concepts and skills in this course will be correlated in the various laboratory settings presented in the corresponding course VNRS B85LV.

**Note:** Not open to students who have taken VNRS B80.

**Hours:** 81 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**VNRS B86 Medical Surgical Nursing III**

*4 units*

**Prerequisites:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B86LV

**Description:** Provides a study of etiology, pathophysiology, assessment, planning and evaluation of adult clients with musculoskeletal, connective tissue, and endocrine disorders. Knowledge imparted builds on nursing theory from the previous medical surgical nursing courses (VNRS B75, VNRS B85). Emphasis will be placed on developing critical thinking skills. Concepts and skills in this course will be correlated in the various laboratory settings presented in the corresponding course VNRS B86LV.

**Hours:** 72 lecture

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

**VNRS B86LV Medical Surgical Nursing III – Clinical Laboratory**

*3 units*

**Prerequisites:** Appropriate standing in the Vocational Nursing Program.

**Corequisite:** VNRS B86
Description: Laboratory course correlated with the corresponding medical surgical course in the Vocational Nursing Program. Focus is on team leading, time management in caring for two clients, providing medications to a group of clients and in improving on skills learned in Medical Surgical Nursing II. Incorporated into course is the utilization of intermediate assessment, planning, intervention and evaluation under clinical supervision. 

Hours: 162 laboratory

Transferable: Associate Degree only. Not transferable.

VNRS B89 Advanced Medical Surgical Nursing

Prerequisite: Appropriate standing in the Vocational Nursing Program.

Corequisite: VNRS B89L

Description: Using the nursing process as a framework, this Vocational Nursing theory course reinforces the critical thinking skills necessary to care for adult and geriatric patients with acute and complex medical surgical disease states, including multi-system involvement. The care for the patient with increasingly complex mental health conditions will be explored. Role expectations related to being a member of the profession are also discussed. Knowledge of nursing principles and leadership/management techniques to determine and prioritize nursing actions will be correlated with the laboratory setting presented in VNRS 89L (Advanced Medical Surgical Nursing Lab).

Hours: 63 lecture

Transferable: Associate Degree only. Not transferable.

VNRS B89L Advanced Medical Surgical Nursing Lab

Prerequisite: Appropriate standing in the Vocational Nursing Program.

Corequisite: VNRS B89

Description: This Vocational Nursing laboratory course focuses on the advanced application of the nursing process in the care of multiple patients from various ethnic and social backgrounds. Clinical experiences will provide opportunities for the demonstration of leadership skills, capabilities, and knowledge essential to the role of the vocational nurse as a member of the health-care team and supervisor of other vocational nurses and unlicensed health care givers. Application of critical thinking skills and the utilization of the nursing process in clinical decision making will be assessed. Students will provide care for patients with acute medical surgical illness and families experiencing common health/illness situations. This clinical course includesacute and sub-acute settings which correlate with topics in VNRS 89 (Advanced Medical Surgical Nursing) and VNRS B83 (Critical Thinking and Leadership for the vocational Nurse).

Materials Fee: $27.00

Transferable: Associate Degree only. Not transferable.

VNRS B95 Medical Surgical Nursing

Prerequisite: Limitation on enrollment. Appropriate standing in the Vocational Nursing Program.

Corequisite: VNRS B95LV

Description: Provides a student of etiology, pathophysiology, assessment, planning and evaluation of adult clients with more complex and critical medical surgical problems and disease states, including multi-system involvement and trauma. Emphasis placed on advanced medical skills. Concepts and skills in this course will be correlated in the various clinical settings presented in the Medical-Surgical Laboratory.

Hours: 72 lecture
VNRS B95LV Medical Surgical Nursing 4/Laboratory
2.5 units
Prerequisite: Limitation on enrollment. Appropriate standing in Vocational Nursing Program.
Corequisite: VNRS B95
Description: Laboratory course which is correlated with the corresponding medical surgical course in the Vocational Nursing Program. Focus is team leading, time management in caring for two clients, providing medications to a group of clients and improving on skills learned in Medical Surgical Nursing III. Also covers the utilization of intermediate assessment, planning, intervention and evaluation under clinical supervision.
Hours: 135 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

VNRS B96 Medical Surgical Nursing 5
2 units
Prerequisite: Limitation on enrollment. Appropriate standing in Vocational Nursing Program
Corequisite: VNRS B96LV
Description: Laboratory course which is correlated with the corresponding medical surgical course in the Vocational Nursing Program. Focus is team leading, time management in caring for two clients, providing medications to a group of clients and improving on skills learned in Medical Surgical Nursing III. Also covers the utilization of intermediate assessment, planning, intervention and evaluation under clinical supervision.
Hours: 108 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

VNRS B96LV Medical Surgical Nursing 5/Laboratory
2 units
Prerequisite: Limitation on enrollment. Appropriate standing in Vocational Nursing Program
Corequisite: VNRS B96
Description: Laboratory course which is correlated with the corresponding medical surgical course in the Vocational Nursing Program. Focus is team leading, time management in caring for two clients, providing medications to a group of clients and improving on skills learned in Medical Surgical Nursing IV. Incorporated into course is the utilization of intermediate assessment, planning, intervention and evaluation under clinical supervision.
Hours: 108 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

VNRS B97LV Pediatrics – Clinical Laboratory
1.5 units
Prerequisite: Appropriate standing in Vocational Nursing Program
Corequisite: VNRS B6
Description: Laboratory course which is correlated with the corresponding pediatric course in the Vocational Nursing Program. Incorporated is the nursing process which utilizes the skills of assessment, planning, intervention and evaluation providing a system approach to nursing practice.
Hours: 81 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

Water Technology Courses

WTRT B51 Basic Water Treatment
3 units
Description: Prepares the beginning level student for the lower level California Department of Health Services (CA/DHS) Water Treatment Operator Certification (grades 1 and 2), and to inform the interested public in the science and technology involved in the purification of drinking water.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

WTRT B52 Basic Water Distribution
3 units
Description: Prepares the beginning level student for the lower level CA/NV AWWA (grade 1) and/or CA/DHS (grades 1 and 2) Water Distribution Operator Certification and to inform the interested public in the science and technology involved in the purification of drinking water.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

WTRT B53 Water and Wastewater Analysis
3 units
Recommended: High school chemistry or job related experience. Reading - one level prior to transfer.
Description: Prepares the student to take California SWRCB, grades 1 and 2, Waste Water Operation exam. Covers environmental influences, composition of natural water, analysis, interpretation of results and application to treatment problems.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

WTRT B61 Advanced Water Treatment
3 units
Prerequisites: Completion of Basic H20 treatment or comparable course.
Description: Prepares the advanced level student for upper level California Department of Health Services (CA/DHS) Water Treatment Operator Certification (grades 3 through 5) and to inform the interested public in the science and technology involved in the purification of drinking water. Field trips required.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

WTRT B62 Advanced Water Distribution
3 units
Prerequisites: Must have completed a basic water distribution course acceptable to Bakersfield College or the instructor, with a minimum of 36 hours.
Description: Prepares the advanced level student for upper level CA/NV AWWA (grades 2 through 4) and/or CA/DHS (grades 3 through 5) Water Distribution Operator Certification and to inform the interested public in the science and technology involved in the distribution of drinking water.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.
Welding Courses

WELD B1A Introduction to Oxygen Acetylene Welding and Cutting
2 units
Recommended: Reading - one level prior to transfer.
Description: Properties and characteristics of metals. Safety, theory, and practical experience in oxy-acetylene welding, cutting, and joint design, codes and weld testing. Not open to students who have taken WELD B1 Ab.
Note: Elective credit only.
Materials Fee: $30.00 for project materials.
Hours: 27 lecture, 27 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

WELD B1B Introduction to the Welding Processes
2 units
Recommended: Reading - one level prior to transfer.
Description: Properties and characteristics of metals and a survey of metal welding processes. Safety, theory, and practical experience in shielded metal arc, PAC, MIG, TIG, FCAW, Shear & Brake, joint design, codes and weld testing.
Note: Elective credit only.
Materials Fee: $30.00 will apply towards steel, welding rods, and welding resume for industry AWS certification.
Hours: 27 lecture, 27 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

WELD B53A Shielded Metal Arc Welding
2 units
Recommended: Reading - one level prior to transfer.
Description: Basic arc welding theory and manipulative skills related to the shielded metal arc welding process, including welding in all positions with various electrodes.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

WELD B53B Shielded Metal Arc Welding 2
2 units
Recommended: WELD B1A, WELD B1B, and Reading - one level prior to transfer
Description: Basic arc welding theory and manipulative skills related to the shielded metal arc welding process, including welding in all positions with various electrodes.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B54A Blueprint Reading for Welders and Machinists
3 units
Recommended: Reading - one level prior to transfer.
Description: Principles of blueprint reading as applied to the welding and machine trades. Emphasis will be placed on the ability to visualize and interpret working drawings. Welding symbols and basic shop math are also included.
Hours: 54 lecture
CCS: Occupational Education
Transferable: Associate Degree only. Not transferable.

WELD B54B Template Development and Layout for the Welder
3 units
Recommended: Reading - one level prior to transfer
Description: Technical skills and critical thinking in layout techniques including layout situations, mathematical and pipe fitting terminology used in the industry.
Hours: 54 lecture
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B55A Structural Plate Certification I
2 units
Prerequisite: WELD B53a with a grade of ’C’ or better.
Recommended: Reading - one level prior to transfer
Description: Safety, introduction to welding codes, welding discontinuities and practical welding. Experience on plate with SMAW or FCAW, based on the American Welding Society DI 1 structural code. Weld 3/8” plate in 1G, 2G, 3G, & 4G fixed position for certification.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B55B Structural Plate Certification II
2 units
Prerequisite: WELD B53a with a grade of ’C’ or better.
Recommended: Reading - one level prior to transfer
Description: Safety, introduction to welding codes, welding discontinuities and practical welding. Experience on plate with SMAW or FCAW, based on the American Welding Society DI 1 structural code. Weld 3/8” plate in 1G, 2G, 3G, & 4G fixed position for certification.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B55C ASME Pipe Certification
2 units
Prerequisites: WELD B55a or WELD B55b with a grade of ’C’ or better OR evaluation of students’ welding skills and knowledge.
Recommended: Reading - one level prior to transfer
Description: Safety, welding pipe in the 5G rolled, 5G fixed and 6G fixed positions. An examination of the ASME Welding Code will also be covered.
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B55D ASME Pipe Certification
2 units
Prerequisites: WELD B55a or WELD B55b with a grade of ’C’ or better OR evaluation of students’ welding skills and knowledge.
Recommended: Reading - one level prior to transfer
Description: Safety, welding pipe in the 5G rolled, 5G fixed, and 6G fixed positions. An examination of the ASME Welding Code will also be covered. 5G rolled, 5G fixed, and 6G fixed positions. An examination of the ASME Welding Code will also be covered.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
WELD B55E API and Related Certification Testing

2 units
Prerequisites: WELD B55c or WELD B55d with grades of 'C' or better OR evaluation of students' skills and knowledge equivalent to WELD B55c and WELD B55d.
Recommended: Reading - one level prior to transfer.
Description: Safety, and welding pipe in 5G rolled, 5G fixed and 6G fixed positions. The API 1104 pipe welding code will also be covered. This course prepares students for certification testing.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B55F API and Related Certification Testing

2 units
Prerequisites: WELD B55c and WELD B55d with grades of 'C' or better OR evaluation of student's welding skills and knowledge equivalent to WELD B55a and WELD B55b.
Recommended: Reading - one level prior to transfer.
Description: Welding safety, and welding pipe in the 5G rolled, 5G fixed, and 6G positions. The API 1104 pipe welding code will also be covered.
Materials Fee: $30.00
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B65AB Welded Steel Structures

3 units
Recommended: Previous class or experience in GMAW (gas metal arc welding) and Reading - one level prior to transfer.
Description: Introduction to welded metal fabrication. Safety related to welding and fabrication tools and equipment. Emphasizes layout, cutting, shaping, forming, and welding structures together. Calculating material and labor costs will be covered as well. (This course is equivalent to combined WELD 65A and 65B).
Materials Fee: $55.00
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B74A Introduction to GMAW (Gas Metal Arc Welding) and FCAW (Flux Core Arc Welding)

2 units
Recommended: Reading - one level prior to transfer and WELD B11B or WELD B53A with a grade of ‘C’ or better or one year work experience as a welder.
Description: Theory and application of GMAW (Gas Metal Arc Welding) and FCAW (Flux Core Arc Welding) welding processes. Emphasizes safe and proper operation of these welding processes while welding on mild steel.
Materials Fee: $25.00 will apply towards steel, welding rods, project: welding resume for industry AWS certification.
Hours: 27 lecture, 27 laboratory
CCS: Credit Course
Transferable: Associate Degree only. Not transferable.

WELD B74B Introduction to Gas Tungsten Arc Welding

2 units
Recommended: WELD B1A or WELD B53a with grades of ‘C’ or better, or one year work experience as a welder. Reading - one level prior to transfer.
Description: Theory and application of GTAW (Gas Tungsten Arc Welding) welding processes. Emphasizes safe and proper operation of this welding process while welding on mild steel, aluminum, and stainless steel.
Note: Not open to students who have taken WELD B74AB.
Materials Fee: $30.00 will apply towards steel, welding rods, and welding resume for industry AWS certification.
Hours: 27 lecture, 27 laboratory
CCS: Occupational Education
Transferable: Not degree applicable. Not transferable.

Woodworking Courses

WOOD B1 Introduction to Woodworking Technologies

3 units
Description: Basic woodworking processes related to industry technology processes to include use and care of machine and hand tools, safe machine and tool use, wood finishing, lathe operation and processes, lamination techniques, woodcarving and other specialized areas of woodworking technology. Students will create a scope of work for each eight week segment of the semester.
Materials Fee: $45.00 to cover cost of expendable materials (abrasives, adhesives, millwork items, etc.)
Hours: 27 lecture, 81 laboratory
CCS: Credit Course
Transferable: CSU and private colleges

WOOD B2 Furniture and Cabinetmaking

3 units
Recommended: Reading - one level prior to transfer.
Description: Skill development on the use and care of portable and stationary woodworking machines. The use of basic wood joint techniques, surface preparations, gluing, clamping and assembly are emphasized.
Materials Fee: $45.00 to cover the cost of materials for the required student projects.
Hours: 27 lecture, 81 laboratory
CCS: Occupational Education
Transferable: CSU and private colleges

WOOD B5 Intermediate Cabinetmaking

3 units
Recommended: WOOD B2 with a grade of ‘C’ or better, or evaluation by instructor of students woodworking skill sets.
**Description:** Machine woodworking for students with prior basic knowledge of woodworking machines and basic construction and assembly techniques. Emphasizes cabinet construction for industry, styles, and designs, materials and handling, and basic estimating skills.

**Materials Fee:** $45.00 for lumber, hardware (if applicable), and finishing products, etc.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Occupational Education

**Transferable:** CSU and private colleges

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**WOOD B65A Advanced Cabinetmaking**

**3 units**

**Prerequisites:** WOOD B5 with a grade of ‘C’ or better; or evaluation by instructor of students woodworking/cabinetmaking skill sets.

**Description:** Machine woodworking emphasizing new designs including modular as well as European cabinet construction, new materials and processes, Kortron, melamine, high density particle board, as well as others. Advanced bidding techniques are discussed.

**Materials Fee:** $45.00 for project materials (glue, hardware, dowels, biscuits, and finishing products. Excludes lumber).

**Hours:** 27 lecture, 81 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

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**WOOD B65B Advanced Cabinetmaking**

**3 units**

**Prerequisites:** WOOD B65A with a grade of ‘C’ or better.

**Description:** Machine and hand techniques necessary for top-end construction emphasized. Non-residential type cabinets studied. Economical use of solid lumber will be shown. Architecture millwork such as frame and panel wainscot, bookcases, desks, bars, doors, skylights and windows demonstrated. Also included are commercial applications such as store fixtures, counters and reception desks.

**Hours:** 27 lecture, 81 laboratory

**CCS:** Occupational Education

**Transferable:** Associate Degree only. Not transferable.

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**Work Experience Courses**

**Registration Instructions:** The Work Experience Program offers variable unit classes. Students desiring to enroll in a Work Experience class must go online to the Bakersfield College website, select Program and Courses, click on Work Experience and begin the application process. The six (6) step process must be completed to ensure enrollment in the course. It is the responsibility of the student to complete all the steps in the application process. For more information, please contact the Work Experience Office at 661/395-4580.

**WEXP B248 Occupational Work Experience Education - Paid**

**1-8 units**

**Prerequisites:** Declared major or occupational goal and evaluation by Work Experience department of student’s qualifications and objectives.

**Description:** College credit for learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student. Occupational cooperative work experience credit may accrue at the rate of one to 8 units per semester for a total of sixteen units, and students must work 75 paid hours or 60 non-paid hours per unit earned. Repetition allowed per Title 5, §55253.

**Hours:** Paid 75 hours per unit (75 – 600)

**CCS:** Credit Course

**Transferable:** CSU and private colleges

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**WEXP B250 General Work Experience Education - Paid**

**1-3 units**

**Prerequisites:** (a) Pursue a planned work experience program, (b) concurrent enrollment in seven or more units (including GWE units) except summer school, (c) evaluation by Work Experience department of students planned work experience program, qualifications and objectives.

**Description:** Offers students an opportunity to combine a planned occupational program with progressive on-the-job experience (OJT) and practical learning experience in the world of work.

**Hours:** Paid 75 hours per unit (75 – 225)

**CCS:** Credit Course

**Transferable:** Associate degree only. Not transferable.

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**WEXP B250 General Work Experience Education - Unpaid**

**1-3 units**

**Prerequisites:** (a) Pursue a planned work experience program, (b) concurrent enrollment in seven or more units (including GWE units) except summer school, (c) evaluation by Work Experience department of students planned work experience program, qualifications and objectives.

**Description:** Offers students an opportunity to combine a planned occupational program with progressive on-the-job experience (OJT) and practical learning experience in the world of work.

**Hours:** Unpaid 60 hours per unit (60 – 180)

**Repeat:** None

**CCS:** Credit Course

**Transferable:** Associate degree only. Not transferable.
Administration and Faculty

**Bakersfield College Administration**

**Christian, Sonya**  
President  
661/395-4211; sonya.christian@bakersfieldcollege.edu  
B.S., University of Kerala  
M.S., University of Southern California  
Ed.D., University of California, Los Angeles

**Gomez-Heitzeberg, Nan**  
Executive Vice President, Academic Affairs  
661/395-4305; ngomez@bakersfieldcollege.edu  
B.A., M.A., California State University, Fresno

**Dadabhoy, Zavareh**  
Vice President, Student Services  
661/395-4305; zavareh.dadabhoy@bakersfieldcollege.edu  
B.A., M.A., University of Wisconsin-Milwaukee  
Ph.D., University of Colorado, Denver

**Culpepper, Anthony**  
Vice President, Finance and Administrative Services  
anthony.culpepper@bakersfieldcollege.edu  
A.A., Long Beach City College  
B.S., California State University, Dominguez Hills  
M.B.A., Pepperdine University  
Ed.D., Pepperdine University

**Capehart, Tim**  
Director, Fire Technology  
661/395-4117; tcapehart@bakersfieldcollege.edu  
B.S., Cogswell Polytechnical College  
M.S., California State University, Long Beach

**Chiang, Amber**  
Director of Marketing and Public Relations  
661/395-4256; amchiang@bakersfieldcollege.edu  
B.A., California State University, Bakersfield  
M.S., Minnesota State University, Mankato  
A.P.R., Public Relations Society of America

**Collier, Cindy**  
Dean of Nursing, Allied Health, Fire Technology  
661/392-4282; ccollier@bakersfieldcollege.edu  
B.S.N., M.S.N., California State University, Bakersfield

**Coston, Todd**  
Director, Information Technology  
661/395-4601; tcoston@bakersfieldcollege.edu  
B.S., University of Phoenix  
M.A., Pepperdine University

**Damania, Nicky Pessi**  
Director, Student Life  
661/395-4051; nicky.damania@bakersfieldcollege.edu  
B.A., Colorado College  
M.S., Bowling Green State University  
Ph.D., University of Colorado, Colorado Springs

**Ford, Keith**  
Associate Director of Athletics  
661/395-4299; keith.ford@bakersfieldcollege.edu  
B.S., State University of New York College at Brockport  
M.S.S., The United States Sports Academy

**Gard, Carla**  
Associate Dean, Director of Nursing  
661/395-4934; cgard@bakersfieldcollege.edu  
A.D.N., Bakersfield College  
B.S.N., Ph.D., California State University, Bakersfield  
M.S.N., ACNP, University of California, Los Angeles

**Gelder, Tom**  
Executive Director, Bakersfield College Foundation
Goldstein, Terri  
Director, Disabled Students Programs & Services  
661/395-4590; terri.goldstein@bakersfieldcollege.edu  
B.A., California State University, Northridge  
M.S., San Diego State University  
Ed.D., University of California, Los Angeles  

Marden, Jennifer  
Assistant to the President  
661/395-4211; jmarden@bakersfieldcollege.edu  
A.S., Bakersfield College  

McCrow, Richard  
Director, Delano Campus  
661/720-2000; rmccrow@bakersfieldcollege.edu  
A.A., California State University, Fresno  
M.A., California State University, Fresno  

Mourtzanos, Emmanuel  
Dean of Instruction  
661/395-4406; emmanuel.mourtzanos@bakersfieldcollege.edu  
B.R.E., Tyndale University  
M.A., Providence College  
Ed.D., Seattle Pacific University  

Pasek, Mary Jo  
Director of Community Relations and Event Scheduling  
661/395-4556; mpasek@kccd.edu  
B.A., College of St. Scholastica  

Pierce, Eileen  
Program Manager, Supplemental Instruction & Critical Academic Skills Workshops  
661/395-4202; epierce@bakersfieldcollege.edu  
B.A., California State University, Fresno  
M.A., University of Florida, Gainesville  

Pluta, Katherine R.  
Dean of Instruction  
661/395-4531; kpluta@bakersfieldcollege.edu  
B.A., M.A., M.S.L.S., California State University, Fullerton  

Purcell, Raymond M.  
Director, Student Health & Wellness Services  
661/395-4336; raymond.purcell@bakersfieldcollege.edu  
A.A., College of the Siskiyous  
B.A., Humboldt State University  
B.S., California State University, Bakersfield  
M.N., University of California, Los Angeles  

Rhoades, Dena  
Human Resources Manager  
661/395-4850; drhoades@kccd.edu  

Rodriguez, Cornelio  
Dean of Instruction  
661/395-4597; crodrigu@bakersfieldcollege.edu  
B.A., California State University, Fullerton  

Rozell, M. Elizabeth  
Dean of Instruction  
661/395-4622; mrozell@bakersfieldcollege.edu  
B.S., Houston Baptist University  
M.E., Texas A&M University  

Taylor, Sandra  
Director of Athletics  
661/395-4258; staylor@bakersfieldcollege.edu  
B.A., M.A., California State University, Fresno  

Vaughn, Sue  
Director, Enrollment Services  
661/395-4049; svaughn@bakersfieldcollege.edu  
B.A., University of California Los Angeles  
M.A., California State University, Sonoma  

Waller, Stephen  
Dean of Instruction  
661/395-4642; stephen.waller@bakersfieldcollege.edu  
B.A., Kutztown University  
Ph.D., Texas A&M University  

Ward, Danell  
Program Manager, Child Development Center  
661/395-4368; danell.ward@bakersfieldcollege.edu  
A.A., American River College  
B.A., M.A., University of Phoenix  

Watkin, Steven  
Director, Outreach and School Relations  
661/395-4551; steven.watkin@bakersfieldcollege.edu  
B.S., M.A., Fresno Pacific University  

Bakersfield College Faculty  
Acosta, Helen Rose  
Professor, Communication  
661/395-4075; hacosta@bakersfieldcollege.edu  
B.A., M.A., California State University, Northridge  

Aderhold, Patrick  
Professor, Engineering  
661/395-4268; patrick.aderhold@bakersfieldcollege.edu  
B.A., B.S., University of Dayton  
Ph.D., Michigan State University  

Agenjo, Anna  
Professor, Library  
661/395-4463; aagenjo@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., Pomona College  
M.L.S., Catholic University  

Allard, Roy  
Assistant Professor, Electronics  
661/395-4850; rallard@bakersfieldcollege.edu  
B.S., University of LaVerne
Allen, Diane  
Professor, Counseling - Disabled Students Programs & Services  
661/720-2012; dallen@bakersfieldcollege.edu  
B.A., M.A., California State University, Fresno

Amin, Karimeh  
Professor, Sociology  
661/395-4216; kamin@bakersfieldcollege.edu  
B.A., Birzeit University  
M.A., California State University, Bakersfield

Anderson, Duane  
Professor, AutoCAD  
661/395-4374; duanders@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., Pacific Ocean College

Anderson, Gayla  
Professor, Child Development  
661/395-4815; gaanders@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., Pacific Ocean College

Andrasian, Ararat  
Professor, Mathematics  
661/395-4227; aandras@bakersfieldcollege.edu  
B.S., M.S., University of Missouri

Arthur, Kendall Moya  
Professor, Philosophy  
661/395-4311; marthur@bakersfieldcollege.edu  
B.A., University of California, Davis  
M.A., University of California, Santa Barbara

Astacio, Jaime  
Assistant Professor, Mathematics  
661/720-2054; jastacio@bakersfieldcollege.edu  
B.S., University of Puerto Rico, Humacao  
M.S., University of Iowa

Baker, Andrew  
Assistant Professor, English for Multilingual Students  
661/720-5028; andrew.baker@bakersfieldcollege.edu  
B.A., Biola University  
M.A., University of Minnesota

Barnes, William  
Professor, Agriculture  
661/395-4637; wbarnes@bakersfieldcollege.edu  
A.S., Bakersfield College  
B.S., California State University, Fresno

Baron, Sarah  
Professor, Public Health Sciences  
661/395-4447; sarah.baron@bakersfieldcollege.edu  
B.A., M.P.H., Tulane University  
Ed.D., California State University, Fresno

Barton, Edwin  
Professor, English  
661/395-4237; ebarton@bakersfieldcollege.edu  
B.A., Franklin Pierce College  
M.A., University of Toronto  
Ph.D., Vanderbilt University

Beckworth, Paul  
Associate Professor, Social Sciences  
661/395-4028; pbeckwor@bakersfieldcollege.edu  
B.S., Toccoa Falls College  
M.A., Clemson University

Besst, David  
Professor, English  
661/395-4217; dbesst@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Bhogal, Sheena  
Professor, English  
661/395-4399; sbhogal@bakersfieldcollege.edu  
B.A., University of California, Santa Barbara  
M.A., Loyola Marymount University

Bligh, Kimberly  
Professor, Academic Development  
661/395-4539; kvan@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield  
Ed.D., University of Phoenix

Bohan, Timothy  
Professor, Academic Development  
661/395-4335; tbohan@bakersfieldcollege.edu  
B.S., California State University, Fullerton  
M.A., California State University, Bakersfield

Bolton, Reggie  
Associate Professor, Health and Physical Education  
Associate Athletic Director  
661/395-4359; jbolton@bakersfieldcollege.edu  
B.A., M.S., Humboldt State University

Borgens, Ed  
Professor, Political Science  
661/395-4456; eborgens@bakersfieldcollege.edu  
B.A., M.A., University of California, Davis

Boyles, Pamela  
Professor, English  
661/395-4489; pboyles@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Bradham, Faith  
Assistant Professor, Library  
661/395-4682; faith.bradham@bakersfieldcollege.edu  
B.A., Trinity University  
M.L.S., Indiana University

Brady, Don  
Instructor, Fire Technology  
661/395-4116; don.brady@bakersfieldcollege.edu  
A.A., Bakersfield College
B.A., Fresno Pacific University

Braid, Barbara
Professor, Counseling
661/395-4617; bbraid@bakersfieldcollege.edu
B.S., M.S., California State University, Northridge

Brantley, Richard
Professor, Mathematics
661/395-4624; rbrantle@bakersfieldcollege.edu
B.A., University of South Alabama
M.S., Auburn University

Campbell, Kren
Associate Professor, Nursing
661/395-4559; kren.campbell@bakersfieldcollege.edu
A.S., Bakersfield College

Caras, Sean
Professor, Electronics
661/395-4393; scaras@bakersfieldcollege.edu
B.A., California State University, Fresno

Carter, Leah
Professor, Nutrition
661/395-4672; lcarter@bakersfieldcollege.edu
B.S., California Polytechnic State University, San Luis Obispo
M.P.H., Loma Linda University
R.D., Registered Dietitian

Cason, Diana
Professor, Academic Development
661/395-4589; diana.cason@bakersfieldcollege.edu
B.A., M.A., California Polytechnic State University, Pomona

Chin, Kimberly
Professor, Theatre Arts
661/395-4388; kchin@bakersfieldcollege.edu
B.A., California State University, Fresno
M.F.A., University of Nevada, Las Vegas

Chudy, Jeff
Professor, Health and Physical Education
661/395-4299; jchudy@bakersfieldcollege.edu
B.A., California State University, Fresno
M.S.S., U.S. Sports Academy

Citialin, Noelia
Assistant Professor, Nursing
661/395-4575; ncitiali@bakersfieldcollege.edu
A.S., Bakersfield College
B.S.N., California State University, Bakersfield
M.S.N., Walden University

Cluff, Greg
Professor, Agriculture
661/395-4697; gcluff@bakersfieldcollege.edu
B.S., University of Nevada, Las Vegas
M.S., University of Nevada, Reno
Ph.D., New Mexico State University

Commsso, Grace
Assistant Professor, Counseling
661/395-4565; grace.commsso@bakersfieldcollege.edu
B.A., Rutgers, The State University of New Jersey, Camden
M.S.W., Rutgers, The State University of New Jersey, Piscataway

Cooper, Wilson
Professor, Chemistry
661/395-4671; wcooper@bakersfieldcollege.edu
B.S., Northeastern Oklahoma State University
M.S., Ph.D., University of Arkansas

Cummings, Tina
Professor, Health and Physical Education
661/395-4663; tcumming@bakersfieldcollege.edu
A.A., Ventura College
B.A., University of California, Santa Barbara
M.A., California State University, Chico

Dahl, Paula
Professor, Health & Physical Education
661/395-4257; pdahl@bakersfieldcollege.edu
B.S., Brigham Young University
M.A., San Diego State University

Dameron, Scott
Professor, Health and Physical Education
661/395-4454; sdameron@bakersfieldcollege.edu
B.A., Vanguard University
M.S., California State University, Fullerton

Damron, Brent
Professor, Health and Physical Education
661/395-4376; bdamron@bakersfieldcollege.edu
B.S., M.A., California State University, Bakersfield

Daniel, William (Mike)
Professor, Chemistry
661/395-4325; mdaniel@bakersfieldcollege.edu
B.S., Louisiana State University, Shreveport
M.A., Ph.D., University of Texas, Austin

Darke, Richard
Professor, Physical Science
661/395-4245; rdarke@bakersfieldcollege.edu
B.S., California State University, Bakersfield
M.A., University of Texas, Austin

Davis, Pamela
Professor, American Sign Language
661/395-4278; padavis@bakersfieldcollege.edu
A.A., Bakersfield College
B.A., California State University, Northridge

Davis, Sandra
Associate Professor, Nursing
661/395-4728; sandra.davis@bakersfieldcollege.edu
B.S., California State University, Fresno
M.S.N., University of Phoenix

Dean, Carl
Professor, Health and Physical Education
661/395-4265; cdean@bakersfieldcollege.edu
B.A., M.A., San Jose State University

Desilagua, Alice
Professor, Counseling
661/395-4471; adesilag@bakersfieldcollege.edu
A.A., Bakersfield College
B.A., M.A., California State University, Bakersfield

Diaz, Victor
Professor, Counseling
661/395-4052; vicdiaz@bakersfieldcollege.edu
A.A., Bakersfield College
B.S., California State University, Bakersfield
M.S., University of La Verne

Dison, Christopher
Professor, English
661/720-2016; christopher.dison@bakersfieldcollege.edu
B.A., M.A., California State University, Bakersfield

Dixon, Jason
Professor, Engineering and Industrial Technology
661/395-4080; jadixon@bakersfieldcollege.edu
A.S., Bakersfield College
B.S., California State University, Sacramento

Doyen, Chris
Professor, English
661/720-2059; cdoyen@bakersfieldcollege.edu
B.A., California State University, Long Beach
M.F.A., California Institute of the Arts

Dumler, Gloria
Professor, English
661/395-4542; gdumler@bakersfieldcollege.edu
B.A., M.A., California State University, Bakersfield

Dunn, Christine
Professor, Nursing
661/395-4716; cdunn@bakersfieldcollege.edu
B.S.N., Deaconess College of Nursing
M.S.N, Saint Louis University

Durst, Suzanne
Professor, Food and Nutrition
661/395-4443; suzdavis@bakersfieldcollege.edu
A.S., Pennyslvania Institute of Culinary Arts
B.S., Southern Illinois University
M.B.A., California Baptist University

Edwards, Daniel
Professor, Journalism
661/395-4344; daedward@bakersfieldcollege.edu
A.A., Monterey Peninsula College
B.A., San Jose State University
M.A., California State University, Fresno

Eggman, Marsha
Professor, Radiologic Technology
661/395-4467; meggman@bakersfieldcollege.edu
B.S., University of Phoenix

Ekern, Darrin
Associate Professor, Ceramics/Sculpture
B.F.A., Minnesota State University, Mankato
M.A., Minnesota State University, Mankato
M.F.A., University of Tennessee, Knoxville

Espericueta, Rafael
Professor, Mathematics
661/395-4054; resperic@bakersfieldcollege.edu
B.A., M.S., University of California, Irvine

Feldman, Philip
Professor, Academic Development
661/395-4833; pfeldman@bakersfieldcollege.edu
B.A., Stanford University
B.A., California State University, Bakersfield

Fernandez, Manuel
Professor, Electronics
661/395-4645; manferna@bakersfieldcollege.edu
B.S., University of Southern California

Ferreira, Carl
Professor, Health and Physical Education
661/395-4343; carferre@bakersfieldcollege.edu
B.S., California State University, Fresno

Flint, Justin
Assistant Professor, Automotive Technology
661/395-4384; justin.flint@bakersfieldcollege.edu
A.A., A.S., Reedley College
B.S., M.S., California State University, Fresno

Freaney, Brenda
Professor, English
661/395-4459; bfreaney@bakersfieldcollege.edu
A.A., Bakersfield College
B.A., M.A., California State University, Bakersfield

Fredenberg, Michael
Associate Professor, Mathematics
michael.fredenberg@bakersfieldcollege.edu
Ph.D., UCSD/SDSU

Freeman, Kathy
Professor, English
661/395-4458; kfreeman@bakersfieldcollege.edu
B.A., California State University, Fresno
M.A., California State University, Bakersfield

Fulks, Janet
Professor, Biological Sciences
661/395-4381; jfulks@bakersfieldcollege.edu
B.S., M.S., University of the Pacific
Ed.D., Nova Southeastern University

Fulks, Patrick
Professor, Biological Sciences
Garrett, Jennifer
Professor, Music
661/395-4547; jennifer.garrett@bakersfieldcollege.edu
B.M., Brigham Young University
M.A., University of Nebraska, Lincoln
D.M.A., Arizona State University

Garrett, Matthew
Professor, History
661/395-4267; matgarre@bakersfieldcollege.edu
B.A., Brigham Young University
M.A., University of Nebraska
Ph.D., Arizona State University

Garrison, Andrea
Professor, Biological Sciences
661/395-4262; agarriso@bakersfieldcollege.edu
B.A., University of California, San Diego
M.A., California State University, Fullerton

Garza, Rosa
Professor, History
661/395-4456; rogarza@bakersfieldcollege.edu
A.A., Bakersfield College
B.A., San Jose State University
M.A., California State University, Bakersfield

Gerhold, John
Professor, Music
661/395-4533; jgerhold@bakersfieldcollege.edu
M.F.A., B.M.U.S., University of California, Irvine
D.M.A., University of British Columbia

Giertz, John
Professor, Communication
661/395-4544; jgiertz@bakersfieldcollege.edu
B.A., California State University, Northridge
M.A., San Francisco State University
Ph.D., Regent University

Gomez, Alex
Assistant Professor, Family and Consumer Education
661/395-4272; alegomez@bakersfieldcollege.edu
A.O.S., California Culinary Academy

Grays, Ronald
Professor, Engineering & Industrial Technology
661/395-4358; rgrays@bakersfieldcollege.edu
A.A., Bakersfield College
B.V.E., California State University, Long Beach

Greenwood, Thomas
Professor, Mathematics
661/395-4229; tgreenwo@bakersfieldcollege.edu
A.A., Moorpark College
B.A., University of California, Santa Barbara

M.S., Northern Arizona University

Hageman, Steven
Professor, Woodworking Technology
661/395-4759; shageman@bakersfieldcollege.edu
A.A., Bakersfield College
B.A., California State University, Fresno
M.A., California Polytechnic State University, San Luis Obispo

Haney, Andrew
Instructor, Automotives
661/395-4574; andrew.haney@bakersfieldcollege.edu
A.S., University Technical Institute

Harding, Lisa
Professor, Nursing
661/395-4389; lharding@bakersfieldcollege.edu
B.S., University of Laverne
Licensed Paramedic, State of California

Harker, Christine
Professor, Allied Health
661/395-4116; seeharker@bakersfieldcollege.edu
A.A., Porterville College
B.A., California State University Bakersfield
M.A., University of Utah

Hart, John
Professor, English for Multilingual Students
661/395-4793; jhart@bakersfieldcollege.edu
A.A., Porterville College
B.A., California State University Bakersfield
M.A., University of Utah

Hart, Mary Michelle
Assistant Professor, Academic Development
661/720-2060; michelle.hart@bakersfieldcollege.edu
A.A., Porterville College
B.A., California State University, Chico
M.A., National University

Harvath, Michael
Professor, Economics
661/395-4458; mharvath@bakersfieldcollege.edu
A.A., Cypress College
B.A., California State University, Long Beach
Ph.D., University of Chicago

Haycock, Christy
Professor, Mathematics
661/395-4220; chaycock@bakersfieldcollege.edu
A.A., Bakersfield College
B.S., California State University, Bakersfield
M.S., California State University, Fresno

Head, Rebecca
Professor, Mathematics
661/395-4050; rhead@bakersfieldcollege.edu
B.S., University of Colorado, Boulder
M.S., California State University, Northridge
M.S., Colorado State University, Fort Collins
M.E., Colorado State University
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
<th>Address 1</th>
<th>Address 2</th>
<th>Address 3</th>
<th>Address 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Henderson, Walter</td>
<td>Associate Professor, Counseling</td>
<td><a href="mailto:walther.henderson@bakersfieldcollege.edu">walther.henderson@bakersfieldcollege.edu</a></td>
<td>B.A., University of Alabama, Birmingham</td>
<td>M.A., University of Massachusetts, Boston</td>
<td>M.S.Ed., Hunter College, City University of New York</td>
<td></td>
</tr>
<tr>
<td>Hill, Traci</td>
<td>Professor, Nursing</td>
<td><a href="mailto:thill@bakersfieldcollege.edu">thill@bakersfieldcollege.edu</a></td>
<td>B.A., Chadron State College, Nebraska</td>
<td>B.S.N., University of Nebraska Medical Center</td>
<td>M.S.N., Walden University</td>
<td></td>
</tr>
<tr>
<td>Hirayama, Bryan</td>
<td>Assistant Professor, Communication</td>
<td><a href="mailto:brian.hirayama@bakersfieldcollege.edu">brian.hirayama@bakersfieldcollege.edu</a></td>
<td>A.A., College of the Sequoias</td>
<td>B.A., M.A., California State University, Fresno</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hoffman, Dianthe</td>
<td>Associate Professor, Nursing</td>
<td><a href="mailto:dianthe.hoffman@bakersfieldcollege.edu">dianthe.hoffman@bakersfieldcollege.edu</a></td>
<td>B.S.N., M.P.A., California State University, Fresno</td>
<td>M.S.N., California State University, Dominguez Hills</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holmes, Steven</td>
<td>Professor, Political Science</td>
<td><a href="mailto:sholmes@bakersfieldcollege.edu">sholmes@bakersfieldcollege.edu</a></td>
<td>B.A., University of California, Santa Barbara</td>
<td>M.P.A., California State University, Fresno</td>
<td></td>
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</tr>
<tr>
<td>Hubble, Cynthia</td>
<td>Professor, English</td>
<td><a href="mailto:chubble@bakersfieldcollege.edu">chubble@bakersfieldcollege.edu</a></td>
<td>A.A., Bakersfield College</td>
<td>B.A., M.A., California State University, Bakersfield</td>
<td></td>
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</tr>
<tr>
<td>Hughes, Richard</td>
<td>Professor, Health and Physical Education</td>
<td><a href="mailto:rihughes@bakersfieldcollege.edu">rihughes@bakersfieldcollege.edu</a></td>
<td>B.A., California State University, Dominguez Hills</td>
<td>M.S., Emporia State University</td>
<td></td>
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</tr>
<tr>
<td>Hukill, Regina</td>
<td>Professor, Mathematics</td>
<td><a href="mailto:rhukill@bakersfieldcollege.edu">rhukill@bakersfieldcollege.edu</a></td>
<td>A.A., Bakersfield College</td>
<td>B.S., California State University, Bakersfield</td>
<td>M.S.T, University of Wyoming</td>
<td></td>
</tr>
<tr>
<td>Hunter, Harlan G.</td>
<td>Associate Professor, Criminal Justice</td>
<td><a href="mailto:hhunter@bakersfieldcollege.edu">hhunter@bakersfieldcollege.edu</a></td>
<td>A.A. Bakersfield College</td>
<td>B.A. University of California, Berkeley</td>
<td>M.P.A., California State University, Bakersfield</td>
<td></td>
</tr>
<tr>
<td>Ivey, Michael</td>
<td>Professor, Business Management and Information Technology</td>
<td><a href="mailto:mivey@bakersfieldcollege.edu">mivey@bakersfieldcollege.edu</a></td>
<td>B.S.A., M.S.A., East Carolina University</td>
<td></td>
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</tr>
<tr>
<td>Jackson, Jo'L</td>
<td>Associate Professor, Child Development</td>
<td><a href="mailto:jojackson@bakersfieldcollege.edu">jojackson@bakersfieldcollege.edu</a></td>
<td>A.S., Bakersfield College</td>
<td>B.A., M.A., Pacific Oaks College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jett, Jennifer</td>
<td>Professor, English</td>
<td><a href="mailto:jjett@bakersfieldcollege.edu">jjett@bakersfieldcollege.edu</a></td>
<td>B.A., California State University, Bakersfield</td>
<td>M.A. Boston College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jett, Shane</td>
<td>Professor, English</td>
<td><a href="mailto:sjett@bakersfieldcollege.edu">sjett@bakersfieldcollege.edu</a></td>
<td>B.A., University of California, Los Angeles</td>
<td>M.A. Boston College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jimenez, Qiu</td>
<td>Professor, Foreign Language</td>
<td><a href="mailto:yqiu@bakersfieldcollege.edu">yqiu@bakersfieldcollege.edu</a></td>
<td>B.A., Beijing University</td>
<td>M.A., University of Cincinnati</td>
<td>Ph.D., University of California, Los Angeles</td>
<td></td>
</tr>
<tr>
<td>Johnson, Daniel</td>
<td>Professor, Automotive Technology</td>
<td><a href="mailto:dajohnso@bakersfieldcollege.edu">dajohnso@bakersfieldcollege.edu</a></td>
<td>A.A., Modesto Junior College</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Johnson, Daymon</td>
<td>Professor, Social Science</td>
<td><a href="mailto:dayjohnso@bakersfieldcollege.edu">dayjohnso@bakersfieldcollege.edu</a></td>
<td>A.A., Bakersfield College</td>
<td>B.A., California State University, Bakersfield</td>
<td>Ph.D., Florida State University</td>
<td></td>
</tr>
<tr>
<td>Johnson, Fabiola</td>
<td>Instructor, Counseling</td>
<td><a href="mailto:fabiola@bakersfieldcollege.edu">fabiola@bakersfieldcollege.edu</a></td>
<td>B.A., California State University, Bakersfield</td>
<td>M.S., University of La Verne</td>
<td>M.A., National University</td>
<td></td>
</tr>
<tr>
<td>Johnson, Jennifer</td>
<td>Professor, Allied Health</td>
<td><a href="mailto:jlwilson@bakersfieldcollege.edu">jlwilson@bakersfieldcollege.edu</a></td>
<td>B.S.N., California State University, Bakersfield</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Johnson, Odella</td>
<td>Professor, Academic Development</td>
<td><a href="mailto:ojohnso@bakersfieldcollege.edu">ojohnso@bakersfieldcollege.edu</a></td>
<td>B.A., California State University, Bakersfield</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jones, A. Todd</td>
<td>Professor, Communication</td>
<td><a href="mailto:atjones@bakersfieldcollege.edu">atjones@bakersfieldcollege.edu</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Jones, Matthew  
**Assistant Professor, Instructional Technology**  
661/395-4332; matt.jones@bakersfieldcollege.edu  
B.A., California State University, Bakersfield  
M.A., Pepperdine University

Keckley, Sondra  
**Associate Professor, Library**  
661/395-4821; sondra.keckley@bakersfieldcollege.edu  
B.A., Alma College  
M.A., California State University, Bakersfield

Kelley, Pamela Sue  
**Professor, Health-Physical Education**  
661/395-4259; pkelley@bakersfieldcollege.edu  
B.A., M.A., University of the Pacific

Kelly, William W.  
**Professor, Agriculture**  
661/395-4097; wkelly@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.S., M.S., California State University, Fresno

Kennedy, Debra  
**Professor, Allied Health**  
661/395-4340; dkennedy@bakersfieldcollege.edu  
B.S.N., M.B.A., California State University, Bakersfield

Kennedy, Keri  
**Associate Professor, Counseling**  
661/395-4632; keri.kennedy@bakersfieldcollege.edu  
B.A., San Jose State University  
M.S., California State University, Fresno

Kim, Charles  
**Associate Professor, Political Science**  
661/720-2017; charles.kim@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., M.P.A., California State University, Bakersfield

Kimball, Dan  
**Professor, Physical Science**  
661/395-4242; dkimball@bakersfieldcollege.edu  
B.S., Brigham Young University  
M.S., San Diego State University

Kimbrough III, Ishmael  
**Professor, History**  
661/395-4524; ikimbrou@bakersfieldcollege.edu  
B.A., McPherson College  
M.A., Emporia State

Kirst, Joyce  
**Professor, Academic Development**  
661/395-4464; jkirst@bakersfieldcollege.edu  
B.A., Saint Louis University  
M.A., California Polytechnic State University, San Luis Obispo

Klopstein, Kurt  
**Professor, Mathematics**  
661/395-4624; kklopste@bakersfieldcollege.edu  
B.S., M.A., University of California, Santa Barbara

Knabe, Ronnie  
**Associate Professor, Nursing**  
661/395-4287; rknabe@bakersfieldcollege.edu  
A.D.N., Bakersfield College  
B.S.N., M.S.N., University of Phoenix

Koeth, David  
**Professor, Art**  
661/395-4674; dkoeth@bakersfieldcollege.edu  
B.F.A., University of Akron  
M.F.A., California State University, Fullerton

Komin, Michael  
**Professor, Welding**  
661/395-4573; mkin@bakersfieldcollege.edu  
B.S., California State University, Fresno  
M.A., National University

Krausse, Lynn  
**Professor, Business Management and Information Technology**  
661/395-4377; lkrprusse@bakersfieldcollege.edu  
A.A., Golden West College  
B.S., California State University, Long Beach  
M.S., Golden Gate University

Kumelos, Rae Ann  
**Associate Professor, English**  
661/395-4457; raekumelos@bakersfieldcollege.edu  
B.S., Arizona State University  
M.A., New Mexico Highlands University  
M.A., Ph.D., Pacific Graduate Institute

Lamers, Andrew  
**Professor, English**  
661/395-4399; alamers@bakersfieldcollege.edu  
B.A., M.A., University of Kansas

Larkin, Lora  
**Professor, Psychology**  
661/395-4380; llarkin@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., California State University, Bakersfield  
M.A., California School of Professional Psychology

LeBlanc, Ginger  
**Professor, Psychology**  
661/395-4513; gleblanc@bakersfieldcollege.edu  
Ph.D., Colorado State University, Fort Collins, Colorado
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Department</th>
<th>Phone</th>
<th>Email</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>LeGrant, Pete</td>
<td>Professor, Philosophy</td>
<td>661/395-4583; <a href="mailto:peterlegrant@bakersfieldcollege.edu">peterlegrant@bakersfieldcollege.edu</a></td>
<td>B.A., Milikin University</td>
<td>M.A., Northern Illinois University</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ph.D., University of Iowa</td>
</tr>
<tr>
<td>Lewis, Janet</td>
<td>Professor, Nursing</td>
<td>661/395-4442; <a href="mailto:jlewis@bakersfieldcollege.edu">jlewis@bakersfieldcollege.edu</a></td>
<td>A.S., Bakersfield College</td>
<td>B.S.N., California State University, Dominguez Hills</td>
</tr>
<tr>
<td>Lewis, Joshua</td>
<td>Associate Professor, Mathematics</td>
<td>661/395-4226; <a href="mailto:jolewis@bakersfieldcollege.eu">jolewis@bakersfieldcollege.eu</a></td>
<td>M.S., University of California, Irvine</td>
<td></td>
</tr>
<tr>
<td>Liu, Li Kang</td>
<td>Professor, Mathematics</td>
<td>661/395-4557; <a href="mailto:liu@bakersfieldcollege.edu">liu@bakersfieldcollege.edu</a></td>
<td>B.S. University of California, Davis</td>
<td>M.A., California State University, Fresno</td>
</tr>
<tr>
<td>Loken, Alisha</td>
<td>Professor, Nursing</td>
<td>661/395-4420; <a href="mailto:aloken@bakersfieldcollege.edu">aloken@bakersfieldcollege.edu</a></td>
<td>A.D.N., Los Angeles County College of Nursing and Allied Health</td>
<td>B.S.N., University of Phoenix</td>
</tr>
<tr>
<td>Lowe, Julie</td>
<td>Professor, Chemistry</td>
<td>661/395-4310; <a href="mailto:jlowe@bakersfieldcollege.edu">jlowe@bakersfieldcollege.edu</a></td>
<td>A.S., Sacramento City College</td>
<td>B.S., M.S., California State University, Fresno</td>
</tr>
<tr>
<td>Lucas, Veronica</td>
<td>Instructor, Counseling</td>
<td>661/720-2078; <a href="mailto:vlucas@bakersfieldcollege.edu">vlucas@bakersfieldcollege.edu</a></td>
<td>B.S., California State University, Long Beach</td>
<td>M.S., California State University, Bakersfield</td>
</tr>
<tr>
<td>Magers, Creighton</td>
<td>Professor, Business Management and Information Technology</td>
<td>661/395-4568; <a href="mailto:cmagers@bakersfieldcollege.edu">cmagers@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Bakersfield</td>
<td></td>
</tr>
<tr>
<td>Marquez, Marisa B.</td>
<td>Associate Professor, Counseling</td>
<td>661/395-4881; <a href="mailto:marimarq@bakersfieldcollege.edu">marimarq@bakersfieldcollege.edu</a></td>
<td>A.A., Bakersfield College</td>
<td>B.A., M.Ed, California State University, Bakersfield</td>
</tr>
<tr>
<td>Marquez, Richard</td>
<td>Professor, English</td>
<td>661/395-4217; <a href="mailto:rmarquez@bakersfieldcollege.edu">rmarquez@bakersfieldcollege.edu</a></td>
<td>B.A., M.A., California State University, Bakersfield</td>
<td></td>
</tr>
<tr>
<td>Martin, Gabriele</td>
<td>Professor, Nursing</td>
<td>661/395-4403; <a href="mailto:gmartin@bakersfieldcollege.edu">gmartin@bakersfieldcollege.edu</a></td>
<td>A.D.N., Bakersfield College</td>
<td>B.S.N., M.S.N., Holy Names University</td>
</tr>
<tr>
<td>Martinez, Robert</td>
<td>Professor, Music</td>
<td>661/395-4546; <a href="mailto:robbie@bakersfieldcollege.edu">robbie@bakersfieldcollege.edu</a></td>
<td>A.A., San Bernardino Valley College</td>
<td>B.A., M.A., San Diego State University</td>
</tr>
<tr>
<td>McCraw, Christopher</td>
<td>Assistant Professor, Agriculture</td>
<td>661/395-4053; <a href="mailto:chris.mccraw@bakersfieldcollege.edu">chris.mccraw@bakersfieldcollege.edu</a></td>
<td>B.S., M.S., California Polytechnic State University, San Luis Obispo</td>
<td></td>
</tr>
<tr>
<td>McLaughlin, Linda</td>
<td>Associate Professor, American Sign Language</td>
<td>661/369-8682 (video phone)</td>
<td><a href="mailto:lindamclaughlin@bakersfieldcollege.edu">lindamclaughlin@bakersfieldcollege.edu</a></td>
<td>B.S., Gallaudet University</td>
</tr>
<tr>
<td>McLaughlin, Linda</td>
<td>Associate Professor, American Sign Language</td>
<td>661/369-8682 (video phone)</td>
<td><a href="mailto:lindamclaughlin@bakersfieldcollege.edu">lindamclaughlin@bakersfieldcollege.edu</a></td>
<td>M.A., Western Maryland College</td>
</tr>
<tr>
<td>McNellis, Michael</td>
<td>Professor, Philosophy</td>
<td>661/395-4935; <a href="mailto:mmcnelli@bakersfieldcollege.edu">mmcnelli@bakersfieldcollege.edu</a></td>
<td>A.A., Moorpark College</td>
<td>B.A., University of California, Santa Barbara</td>
</tr>
<tr>
<td>McQuerrey, Susan</td>
<td>Professor, English for Multilingual Students</td>
<td>661/395-4587; <a href="mailto:smcquerr@bakersfieldcollege.edu">smcquerr@bakersfieldcollege.edu</a></td>
<td>B.A., University of the Pacific</td>
<td>M.A., California State University, Bakersfield</td>
</tr>
<tr>
<td>Menchaca, Erica</td>
<td>Associate Professor, Academic Development</td>
<td>661/395-4005; <a href="mailto:erica.menchaca@bakersfieldcollege.edu">erica.menchaca@bakersfieldcollege.edu</a></td>
<td>M.S., Point Loma Nazarene University</td>
<td></td>
</tr>
<tr>
<td>Mendiola, Jaime</td>
<td>Professor, Nursing</td>
<td>661/395-4535; <a href="mailto:jmendiola@bakersfieldcollege.edu">jmendiola@bakersfieldcollege.edu</a></td>
<td>B.S., California State University, Bakersfield</td>
<td>M.S., ACNP, University of California, Los Angeles</td>
</tr>
<tr>
<td>Mendoza, Harold</td>
<td>Associate Professor, Computer Science</td>
<td>661/395-4631; <a href="mailto:harold.mendoza@bakersfieldcollege.edu">harold.mendoza@bakersfieldcollege.edu</a></td>
<td>B.S., California State University, Sacramento</td>
<td>M.S., California State University, Fullerton</td>
</tr>
<tr>
<td>Menzies, John</td>
<td>Professor, Geography</td>
<td>661/395-4563; <a href="mailto:jmenzies@bakersfieldcollege.edu">jmenzies@bakersfieldcollege.edu</a></td>
<td>B.S., University of Winnipeg</td>
<td>M.S., University of North Dakota</td>
</tr>
<tr>
<td>Meyers, David</td>
<td>Professor, Mathematics</td>
<td>661/395-4517; <a href="mailto:dmeyers@bakersfieldcollege.edu">dmeyers@bakersfieldcollege.edu</a></td>
<td>B.A., University of Winnipeg</td>
<td>M.S., University of North Dakota</td>
</tr>
</tbody>
</table>
Mieh, Thomas  
**Professor, Mathematics**  
661/395-4761; thmieh@bakersfieldcollege.edu  
B.S., University of Liberia  
M.S., St. Louis University

Miller, Erin  
**Associate Professor, History**  
661/395-4350; emiller@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., California State University, Bakersfield  
M.A., University of Notre Dame

Mitchell, Denise  
**Professor, English**  
661/395-4541; dmitchel@bakersfieldcollege.edu  
A.A., West Los Angeles College  
B.A., M.A., California State University, Bakersfield

Monks, Rebecca  
**Professor, English**  
661/395-4275; rmonks@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Moon, Matthew  
**Professor, Health & Physical Education - Intercollegiate Swim**  
661/395-4663; matthew.moon@bakersfieldcollege.edu  
B.S. University of the Cumberlands  
M.A. Union College, Kentucky

Mooney, Rebecca  
**Professor, English**  
661/395-4455; rmooney@bakersfieldcollege.edu  
B.A., San Francisco State University  
M.A., California State University, Fresno

Moran, Thomas  
**Professor, American Sign language**  
661/395-4537; tmoran@bakersfieldcollege.edu  
A.A., Golden West College  
B.A., M.A., California State University, Northridge

Moreland, Krista  
**Associate Professor, Anthropology**  
661/395-4243; kmorelan@bakersfieldcollege.edu  
B.A. California State University, Bakersfield  
M.A. University of Leicester

Moseley, William  
**Professor, Business Management and Information Technology**  
661/395-4741; bmoseley@bakersfieldcollege.edu  
M.A., Pepperdine University  
Ph.D., University of Nebraska, Lincoln

Moton, David  
**Professor, English**  
661/395-4478; dmoton@bakersfieldcollege.edu  
B.A., M.A., California State University, Bakersfield

Mulder, Beth  
**Professor, Allied Health**  
661/395-4566; bmulder@bakersfieldcollege.edu  
M.S.N., Loma Linda University Graduate School of Nursing

Neville, David  
**Associate Professor, Spanish**  
661/395-4291; dneville@bakersfieldcollege.edu  
B.A., Brigham Young University  
M.A., University of Arizona

Newton, Chad  
**Professor, Biological Sciences**  
661/395-4085; cnewton@bakersfieldcollege.edu  
B.A., M.A., University of California, Santa Barbara

Newton, Kimberly  
**Professor, Biological Sciences**  
661/395-4409; kimberly.newton@bakersfieldcollege.edu  
B.A., University of California, Riverside  
M.S., California Polytechnic State University, Pomona

Nickell, Kimberly  
**Professor, Academic Development**  
661/395-4654; knickell@bakersfieldcollege.edu  
B.S., M.A., California State University, Bakersfield

Nygwachi, Brenda  
**Professor, Child Development**  
661/395-4658; bnyagwac@bakersfieldcollege.edu  
A.A. Bakersfield College  
B.A., M.S., California State University, Bakersfield

Oilar, Norman  
**Professor, Agriculture**  
661/395-4056; norman.oilar@bakersfieldcollege.edu  
A.A., Shasta College  
B.S., California State University, Chico  
M.S., Cal Poly, San Luis Obispo

Ono, Lindsay  
**Professor, Horticulture**  
661/395-4938; lono@bakersfieldcollege.edu  
A.A. Bakersfield College  
B.S., California Polytechnic State University, San Luis Obispo

Osea, Mark  
**Professor, Horticulture**  
661/395-4938; lono@bakersfieldcollege.edu  
A.A. Bakersfield College  
B.S., California Polytechnic State University, San Luis Obispo

Ottum, Joshua  
**Professor, Commercial Music**  
661/395-4404; joshua.ottum@bakersfieldcollege.edu  
B.A., Seattle Pacific University  
M.F.A., University of California, Irvine  
Ph.D., Ohio University

Painton, Timothy  
**Professor, Health and Physical Education**
Professor, English for Multilingual Students
661/395-4543; jparent@bakersfieldcollege.edu
B.A., University of California, Santa Barbara
M.A., San Francisco State University

Parent, Jeannie
Professor, Physical Science
661/395-4246; spark@bakersfieldcollege.edu
B.S., Ed.M., Kyungpook National University
M.S., University of New Mexico, Albuquerque

Park, Sung Soo
Assistant Professor, History
661/395-4717; chparker@bakersfieldcollege.edu
B.A., Simpson University
M.A., California State University, Sacramento

Parker, Christian
Professor, English
661/395-4767; pparks@bakersfieldcollege.edu
B.A., University of California, Irvine
M.S., Columbia University
M.A., California State University, Bakersfield
Ph.D., Capella University

Peat, Scott
Professor, Biological Sciences
661/395-4329; scott.peat@bakersfieldcollege.edu
B.S., M.S., California State University, Fresno
Ph.D., Brigham Young University

Peet, Laura
Assistant Professor, English
661/395-4644; lpeet@bakersfieldcollege.edu
B.A., M.A., California State University, Bakersfield

Perkins, Nancy
Professor, Radiologic Technology
661/395-4247; nperkins@bakersfieldcollege.edu
A.S., University of Nevada, Las Vegas
B.S., Loma Linda University
M.A., California Lutheran University

Peters, Zackaria
Professor, Health & Physical Education - Strength & Conditioning
661/395-4266; zackaria.peters@bakersfieldcollege.edu
B.A., Tabor College
M.A., Fresno Pacific University
M.A., California University of Pennsylvania

Pierce, Jack
Professor, Geology
661/395-4391; jpierce@bakersfieldcollege.edu
B.S., San Diego State University
M.S., University of Idaho

Pimentel-Stratton, Lily
Professor, Child Development
661/720-2006; lipiment@bakersfieldcollege.edu
B.A., California Polytechnic State University, Pomona
M.A., California State University, Los Angeles
Ed.D., Walden University

Pinza, Susan
Professor, Academic Development
661/395-4464; spinza@bakersfieldcollege.edu
B.A., Stanford University
M.A., California Polytechnic State University, San Luis Obispo

Poetker, Anna
Professor, Philosophy
661/395-4367; apoetker@bakersfieldcollege.edu
B.A., University of California, Los Angeles
M.A., Loyola Marymount University
Ed.D., California Lutheran University

Posey, Vic
Associate Professor, Automotive Technology
661/395-4532; vposey@bakersfieldcollege.edu
A.S., Bakersfield College

Powell, Cynthia
Professor, English
661/395-4782; cypowell@bakersfieldcollege.edu
B.A., B.A., M.A., California State University, Bakersfield

Rahman, Shohreh
Associate Professor, Counseling
Coordinator, International Student Services
661/395-4412; srahman@bakersfieldcollege.edu
B.A., M.A., California State University, Bakersfield

Ralls, Josh
Associate Professor, Welding
661/395-4790; jralls@bakersfieldcollege.edu
B.A., California State University, Bakersfield

Rice, Billie Jo
Professor, Psychology
661/395-4936; brice@bakersfieldcollege.edu
A.A., Bakersfield College
B.A., M.A., California State University, Bakersfield

Richardson, Gayle
Professor, Business Management and Information Technology
661/395-4062; grichard@bakersfieldcollege.edu
A.A., College of the Redwoods
B.S., California State University, Humboldt

Rigby, Klint
Professor, Engineering and Industrial Technology
661/395-4225; krigby@bakersfieldcollege.edu
B.A., California State University, Fresno
M.A., Point Loma Nazarene University

Robinson, Valerie
Professor, Business Management and Information Technology
661/395-4375; vrobinso@bakersfieldcollege.edu
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rodacker, Elizabeth</td>
<td>Professor, English for Multilingual Students</td>
<td>661/395-4793; <a href="mailto:erodacke@bakersfieldcollege.edu">erodacke@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>A.A., Modesto Junior College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B.A., M.A., California State University, Stanislaus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rosales, Oliver</td>
<td>Professor, History</td>
<td>661/720-2065; <a href="mailto:orosales@bakersfieldcollege.edu">orosales@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.A., University of California, Berkeley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.A., California State University, Bakersfield</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rosas, Manuel</td>
<td>Professor, Counseling</td>
<td>661/395-4619; <a href="mailto:mrosas@bakersfieldcollege.edu">mrosas@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.A., M.A., California State University, Bakersfield</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rosellini, Kathleen M.</td>
<td>Professor, Counseling</td>
<td>661/395-4618; <a href="mailto:krosell@bakersfieldcollege.edu">krosell@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.A., M.A., California State University, Bakersfield</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rosenthal, Deborah</td>
<td>Associate Professor, Chemistry</td>
<td>Deborah <a href="mailto:rosenthal@bakersfieldcollege.edu">rosenthal@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.S., University of Michigan</td>
<td></td>
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<tr>
<td>M.Ed, University of North Carolina</td>
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<td></td>
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<tr>
<td>D.A, Middle Tennessee State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rush, Kathleen</td>
<td>Professor, Mathematics</td>
<td>661/395-4244; <a href="mailto:krush@bakersfieldcollege.edu">krush@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.A., Saint Peter's College</td>
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<tr>
<td>M.S., University of Maryland</td>
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<tr>
<td>M.A., Antioch University</td>
<td></td>
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</tr>
<tr>
<td>Russell, Bryan</td>
<td>Professor, Philosophy</td>
<td>661/395-4387; <a href="mailto:bryan.russell@bakersfieldcollege.edu">bryan.russell@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.A., Saint Mary's College</td>
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<td>M.A., St. John's College</td>
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<tr>
<td>M.A., Georgia State University</td>
<td></td>
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<tr>
<td>Russell, Kirk</td>
<td>Professor, Library</td>
<td>661/395-4625; <a href="mailto:kruessel@bakersfieldcollege.edu">kruessel@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.A., M.L.I.S., Brigham Young University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saldivar, Jose</td>
<td>Professor, Biological Sciences</td>
<td>661/395-4099; <a href="mailto:jsaldiva@bakersfieldcollege.edu">jsaldiva@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.A., California State University, Fresno</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ph.D, University of California, Irvine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salgueiro-Carlisle, Maritza</td>
<td>Professor, Foreign Language</td>
<td>661/395-4291; <a href="mailto:mcarlisi@bakersfieldcollege.edu">mcarlisi@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.A., University of Puerto Rico</td>
<td></td>
<td></td>
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<tr>
<td>M.A., University of Illinois</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scanlon, Bernard</td>
<td>Professor, Mathematics</td>
<td>661/395-4054; <a href="mailto:bscanlon@bakersfieldcollege.edu">bscanlon@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.S., Allegheny College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.A., M.S., University of Iowa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schultz, Jonathan</td>
<td>Instructor, Counseling</td>
<td>661/395-4069; <a href="mailto:jonathan.schultz@bakersfieldcollege.edu">jonathan.schultz@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.A., The Masters College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.A., California State University, Bakersfield</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serpa, Patrick</td>
<td>Professor, Mathematics</td>
<td>661/395-4557; <a href="mailto:pserpa@bakersfieldcollege.edu">pserpa@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.S., San Jose State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.S., California State University, Hayward</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.A., University of California, Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shafik, Adel</td>
<td>Professor, Art</td>
<td>661/395-4515; <a href="mailto:ashafik@bakersfieldcollege.edu">ashafik@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.F.A, Helwan University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.F.A., Indiana University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shi, Nigie</td>
<td>Assistant Professor, Mathematics</td>
<td>661/395-4004; <a href="mailto:nigie.shi@bakersfieldcollege.edu">nigie.shi@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.S., California State University, Hayward</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.S., Biology, University of the Pacific</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ph.D., University of California, Riverside</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sierra, Sandra</td>
<td>Professor, Counseling</td>
<td>661/720-2005; <a href="mailto:sasierra@bakersfieldcollege.edu">sasierra@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.A., M.A., California State University, Bakersfield</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simmons, Walton</td>
<td>Professor, Business Management and Information Technology</td>
<td>661/395-4631; <a href="mailto:wsimmons@bakersfieldcollege.edu">wsimmons@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.S., California Baptist College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.A., Chapman College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smith, Carol</td>
<td>Professor, Mathematics</td>
<td>661/395-4562; <a href="mailto:csmith@bakersfieldcollege.edu">csmith@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>B.S., California Polytechnic State University, San Luis Obispo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.S., California State University, Northridge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smith, Patricia</td>
<td>Assistant Professor, Criminal Justice</td>
<td>661/395-4407; <a href="mailto:patsmith@bakersfieldcollege.edu">patsmith@bakersfieldcollege.edu</a></td>
</tr>
<tr>
<td>A.A., Bakersfield College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B.A. California State University, Bakersfield</td>
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</tr>
<tr>
<td>B.A., University of Texas, Houston</td>
<td></td>
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</tr>
<tr>
<td>M.A.O.M., University of Phoenix</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Staat, Jeremy  
**Assistant Professor, Welding**  
661/395-4019; jeremy.staat@bakersfieldcollege.edu  
B.A., Arizona State University

Staller, Mark  
**Professor, Communication**  
661/395-4499; mstaller@bakersfieldcollege.edu  
B.A., Saint Mary’s College of California  
M.A., Ph.D., University of California, Berkeley

Stallworth, Kristopher  
**Associate Professor, Art**  
661/395-4206; kstallwo@bakersfieldcollege.edu  
B.A., Southern Illinois University  
M.F.A., The University of Memphis

Stanifer, Neal  
**Assistant Professor, English**  
661/395-4459; kloughma@bakersfieldcollege.edu  
B.A., Brown University  
M.A., California Polytechnic State University, San Luis Obispo

Starr, Donna  
**Professor, Mathematics**  
661/395-4227; dstarr@bakersfieldcollege.edu  
B.S., University of California, Los Angeles  
M.S., California State University, Fresno

Stierle, Isabel  
**Professor, Biological Sciences**  
661/395-4234; istierle@bakersfieldcollege.edu  
B.A., B.S., M.S., University of Illinois, Chicago

Stowers, Misty  
**Assistant Professor, Economics**  
mistystowers@bakersfieldcollege.edu  
A.A., Antelope Valley College  
B.A., M.A., California State University, Bakersfield

Stratton, Jason  
**Professor, History**  
661/395-4071; jstratto@bakersfieldcollege.edu  
B.A., University of LaVerne  
M.A., University of California, Riverside

Strobel, Nicolas  
**Professor, Physical Science**  
661/395-4526; nstrobel@bakersfieldcollege.edu  
B.S., University of Arizona  
M.S., Ph.D., University of Washington

Tarjan, Janet  
**Professor, Mathematics**  
661/395-4248; jwtarjan@bakersfieldcollege.edu  
B.S., University of Illinois, Chicago  
M.S., Northwestern University  
Ed.D., Nova Southeastern University

Tatum, Ann  
**Professor, English**  
661/395-4362; atatum@bakersfieldcollege.edu  
B.S., California Polytechnic State University, San Luis Obispo  
M.A., California State University, Bakersfield

Tavoni, Stephen  
**Associate Professor, Biological Sciences**  
661/395-395-4031; stephen.tavoni@bakersfieldcollege.edu  
B.S., University of California, Santa Cruz  
M.S., Sonoma State University

Thorstn, Andrea  
**Associate Professor, Communication**  
661/395-4216; aThorson@bakersfieldcollege.edu  
B.A., Bradley University  
M.A., California State University, Long Beach

Toler, Kristopher  
**Professor, Mathematics**  
661/395-4557; ktoler@bakersfieldcollege.edu  
B.S., California State University, Bakersfield  
M.S., California Polytechnic State University, San Luis Obispo  
M.A., University of LaVerne

Torres, Lidia  
**Professor, Architecture**  
661/395-4579; ltorres@bakersfieldcollege.edu  
A.S., Bakersfield College  
B.A., California Polytechnic State University, San Luis Obispo  
M.A., University of LaVerne

Torres, Robert  
**Professor, History**  
661/395-4218; robtorre@bakersfieldcollege.edu  
B.A., M.A., California State University, Fresno

Towns, Bernadette  
**Professor, Child Development**  
661/395-4444; btowns@bakersfieldcollege.edu  
B.S., Bridgewater College  
M.S., California Lutheran University  
Ph.D., Walden University

Tumblin, Andrea  
**Associate Professor, Mathematics**  
661/395-4229; andrea.tumblin@bakersfieldcollege.edu  
B.S., B.A., University of Oklahoma

Turney, Donald  
**Professor, Psychology**  
661/395-4293; dTurney@bakersfieldcollege.edu  
B.A., Biola University  
M.A., California State University, Fresno  
M.A., Pepperdine University

Vasquez, Angelica  
**Associate Professor, Counseling**  
661/395-4593; angelica.vasquez1@bakersfieldcollege.edu  
B.A., M.S., California State University, Bakersfield
Vaughan, Kenward  
Professor, Chemistry  
661/395-4243; kvaughan@bakersfieldcollege.edu  
B.S., Duke University  
Ph.D., Yale University  

Vickrey, Rachel  
Professor, Mathematics  
661/395-4382; rvickrey@bakersfieldcollege.edu  
B.A., Western Washington University  
B.A., Evergreen State College  
M.A., University of West Georgia  
M.A., University of New Mexico  

Villasenor, Sarah  
Assistant Professor, Counseling  
661/395-4422; svillase@bakersfieldcollege.edu  
B.A., California State University, Bakersfield  
M.A., National University  

Wayland, Scott  
Professor, English  
661/395-4588; swayland@bakersfieldcollege.edu  
B.A., M.A., Sonoma State University  

Whitney, Phillip  
Professor, Business Management and Information Technology  
661/395-4042; pwhitney@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.S., California State University, Chico  
B.S., M.B.A., California State University, Bakersfield  

Whitson, Becki A.  
Professor, Psychology  
661/395-4619; bwhitson@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., M.S., California State University, Bakersfield  

Wiederrecht, Ann  
Professor, History  
661/395-4692; awiederr@bakersfieldcollege.edu  
B.A., Smith College  
M.A., Antioch University  

Williams, Reginald  
Professor, Philosophy  
661/395-4439; rwilliam@bakersfieldcollege.edu  
A.A., Bakersfield College  
B.A., California State University, Bakersfield  
M.A., Ph. D., University of Illinois  

Willis, Darren  
Assistant Professor, Industrial Drawing  
661/395-4094; darren.willis@bakersfieldcollege.edu  
A.S., Bakersfield College  
CTE Credential, University of California, Los Angeles  

Wilmot, Melinda  
Associate Professor, Library  
661/395-4209; melinda.wilmot@bakersfieldcollege.edu  
B.A., California State University, Bakersfield  
M.L.I.S., San Jose State University  

Wise, Richard  
Professor, Biological Sciences and Physical Sciences  
661/395-4525; rwise@bakersfieldcollege.edu  
B.A., University of California, Berkeley  
M.S., California State University, Chico  

Wojtysiak, Jessica  
Assistant Professor, Academic Development  
661/395-4464; jessica.wojtysiak@bakersfieldcollege.edu  
B.A., Cornell University  
M.S., California State University, Bakersfield  

Wolf, Keri  
Professor, English  
661/395-4528; keri.wolf@bakersfieldcollege.edu  
B.A., California Polytechnic State University, San Luis Obispo  
M.A., California State University, Long Beach  
Ph.D., University of California, Davis  

Zikri, Murad  
Professor, Business Management and Information Technology  
661/395-4088; mzikri@bakersfieldcollege.edu  
B.S., MBA, University of Khartoum, Sudan  
M.B.A., Webster University  
Ph.D., Berne University, West Indies  

Zoller, Christian E.  
Professor, Criminal Justice  
661/395-4484; czoller@bakersfieldcollege.edu  
B.A., University of Kansas  
J.D., University of San Diego  

Bakersfield College Adjunct Faculty  
Achere, Julius - Nursing  
Aiello-Wise, Kathy - Early Childhood Development  
Albertson, Kevin - Fire Science/Technology  
Alexander, Jacen, - English  
Alfaro, Jeorgina - Counseling  
Andersen, Glen - Communication  
Andersen, Jens-Aref - Engineering & Industrial Technology  
Anderson, Cassandra - Counseling  
Andrasi, Savanna - English  
Amsolabezere, Paul - Agriculture  
Armendariz, Bonnie - Business Management/Info Technology  
Austin, Marcos - Physical Education  
Bailey, Dee - Behavioral Science  
Baker, Linda - Behavioral Science  
Baltis, Heather - Agriculture  
Barrett, Jerome - Communication  
Bell, Justin - English  
Bellah, Mary - Music  
Betthausen, Thomas - Art  
Borrego, Andrew - Art  
Boyles, Robert - Physical Education  
Brandfield, Matthew - Foreign Language  
Brian, Cameron - Art  
Brown, Sharon - Early Childhood Development  
Bruce, Kathleen - Nursing  
Bsharah, Steve - Social Science  
Buringrud, Lisa - Music
Burham, Kyle - Music
Burton, Brent - Nursing
Butcher, Fabiola - Communication
Butterfield Davis, Kathryn - Theater Arts
Calderon, Santiago - Foreign Language
Canning, Denise - English
Cantu, Gerald - Philosophy
Casabella, Jeremy - English
Cervantes, Elizabeth - Music
Chapman, William - Academic Development
Chavez, Aaron - Physical Education
Chisholm, Steve - Behavioral Science
Cooper, Roger - Music
Courtney, Houston - Physical Education
Cronquist, Daniel - Engineering & Industrial Technology
Da Silva Tavares, Ximena – Physical Science
Davies, John - English
DeRosia, Mark - Behavioral Science
Degrandis, Jacqueline - Communication
Delamar, Erika - Physical Education
Delgado, Fernando - Engineering & Industrial Technology
Destefano, Peggy - Administration of Justice
Dethlefson, James - Music
Dickson, Scott - Music
Dodgin, Dustin - Communication
Donahue, James – Academic Development
Donev, Stefan - Communication
Duarte-Smith, Marcus - Behavioral Science
Dupree, Michael - English
Eagan, Jeffrey - English
Eaton, Jamee - Art
Escudero, Antonio - Foreign Language
Estill, Kristine - Biological Sciences
Fahs, Douglass – Communication
Feer, Charles - Behavioral Science
Fillbrandt, Jeanne - Mathematics
Fillmore, Darlene – Academic Development
Findley, Sarah - Nursing
Flachmann, Christopher - Behavioral Science
Forbes, Judy - Fire Science/Technology
Forsythe, Heidi - Communication
Fox-Peterson, Pamela – Academic Development
Ganster, Katherine - Biological Sciences
Garaygordobil, Eugenio - Communication
Garcia, Brittany - Family & Consumer Education
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Pennell, Adam - Physical Education
Perez, Lupe - Behavioral Science
Perry, Jannie - Counseling
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Porfiri, Karen - Family & Consumer Education
Posey, Tina - Business Management/Info Technology
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Smiley, Michael - Philosophy
Smith, Colin - Physical Science
Smith, Gerald - Physical Science
Smith, Janeen - English
Smith, Kellie - Radiologic Technology
Smith, Martin - Agriculture
Smith, Michael - Nursing
Smith, Zebedee - Engineering & Industrial Technology
Stockton, David - Business Management/Info Technology
Stevens, Carrie - Behavioral Science
Stewart, Robert - Engineering & Industrial Technology
Stockton, Dana - Behavioral Science
Stockton, Lonnie - Behavioral Science
Stone, Cynthia - Behavioral Science
Takeuchi, Yuki - Foreign Language
Thomas, David - Apprenticeship
Thomas, Evelyne - Physical Education
Thompson, Cynthia - Nursing
Thompson, Natalie - Behavioral Science
Thorson, Debra - Communication
Thygerson, Nita - Communication
Tiner, Kristofer - Music
Tomlin, Camille - Social Science
Toorop Bloom, Hedy - Academic Development
Townsend, Annalisa - Academic Development
Tracy, Mark - Engineering & Industrial Technology
Tran, Lianna - English for Multilingual Students
Turner, James - Business Management/Info Technology
Turney, Vickie - Behavioral Science
Upton, Lee - Radiologic Technology
Valadez, Brenda - Communication
Van Kopp, Kristi - Music
Vannasone, Isaac - Mathematics
Wachob, Phyllis - English for Multilingual Students
Wallace, Laurie - Family & Consumer Education
Walston, Arelene - Academic Development
Watts, Carleen - Mathematics
Webb, Thomas - Business Management/Info Technology
Whitaker, Meghan - Family & Consumer Education
Whitaker, William - Physical Science
Willis, Julie - English
Wilson, Jamie - Communication
Wilson, Veronica - English
Wong, Tiffany - English
Wyatt, Carl - Apprenticeship
Yakoub, Janet - Academic Development
Young, Jeanne - Nursing
Young, Karin - Behavioral Science
Young, Kathryn - Early Childhood Development
Young, Penelope - Art
Bakersfield College Retirees

Ackland, John R. - Biological Sciences
Allen, Anna K. - Sociology
Allison, Robert D. - Administration
Allsman, Ronald L. - Bacteriology, Biological Sciences
Anhalt, Mary Jo - Mathematics
Appel, Jacqueline - English
Arakelian, Margaret - Health Careers
Battistoni, Vienna - Child Development
Beeman, Randal - English
Benston, Carol - English
Benston, Richard - English
Blurt, Marlene - Physical Education
Bowers, Sandra - Physical Education
Bowser, Carl - Physical Education
Bowtell, Ria - Business Management & Information Technology
Boyce, Ferris A. - Health Careers
Brailsford, Robert E. - Physical Science
Brannan, Charles - Engineering & Industrial Technology
Brigham, Jack - History and Political Science
Bright, Larry K. - English
Brommelsiek, Patricia - Library
Brooks, Dale W. - Music
Buckley, Margaret - Allied Health
Burr, Arnold H. - Engineering & Industrial Technology
Canaday, George - Automotive Technology
Carden, James F. - Counseling
Carpenter, John - Sociology
Clark, Lucy G. - Family & Consumer Education
Clark, Nancy - Family & Consumer Education
Clark, Orelie Louise - Business Management & Information Technology
Collins, Pansy - Counseling
Collis, Gerry - Physical Education
Conner (McGowan), Patricia - English
Copelin, Mary Helen - Speech
Corser, Caroline - Learning Center
Cory, Wallace E. - Social Science
Covey, Robert L. - Health & Physical Education
Cox, Gary E. - Engineering & Industrial Technology
Cunningham, Carol A. - English and ESL
Dabbs, Lowell P. - English
Damron, Duane - Physical Education
Davajian, Hoolyse Anoosh - Counseling
Davidson, Robin - Mathematics
Davis, Alvin D. - Art
Davis, Earlene - Nutrition, Family & Consumer Education
Davis, Thomas H., III - Social Science
Day, Robert - Maintenance and Operations
DeLeon, Sheran - Allied Health
Dethlefon, Ronald - Speech
Dhariwal, Mita - Sociology
Dietz, Robert C. - Chemistry
Diskin-Mattison, Mary - Business Management & Information Technology
DOMMER, Arlen - Engineering & Industrial Technology
Dooley, Duane - Engineering & Industrial Technology
Edgmon, Sharon J. - Mathematics
Edwards, Nancy Joan - English
Ewing, John L. - Mathematics
FAHSBENDER, Kenneth E. - Administration
Fanucchi, Larry - Engineering & Industrial Technology
Fleenor, Terry - English
Frickel, David - Health & Physical Education
Funk, Robert - Architecture/CAD
Garrett, Clifton - Foreign Language
Garrett, Judith P. - Foreign Language
Gilman, Edith - Allied Health
Glessner, Faye - Business Management & Information Technology
Goodwin, Gregory L. - History, Political Science
Gordon, Helen Heightsman - English, Counseling
Granger-Dickson, Sue - Counseling
Grider, Dallas E. - Health and Physical Education
Grogan, Darlene - Allied Health
Guidry, Nancy - Library
Hairfield, Katherine - Radiologic Technology
Hale, Stephanie - Academic Development
Haner, Jerry L. - Business Management & Information Technology
Haslett, Donald R. - Public Service
Haycock, Lawrence K. - Agriculture
Hench, Irene E. - Library
Hernandez, Jack - Philosophy, Administration
Higgins, Eloise - Family & Consumer Education
Hill, Sally F. - Psychology
Honig, Sasha - History
Howard, Evan D. - English
Hullert, Phyllis - Student Services
Hurlbert, Emily - Academic Development
Jacobson, Lavonda - Nursing
Janeway, Miriam - English
Johnson, Catherine C. - Mathematics
Johnson, Donald - Supportive Services
Johnson, Jane P. - Academic Development, German
Johnson, Walter - Physical Education
Jones, Carl - Automotive Technology
Kellogg, Carolyn - Nursing
Kelly, Diana - Counseling
Kelsey, Richard - Counseling
Keranen, David M. - Mathematics
Kimler, Tom - Physical Science
Kirchner, Eugene - Physical Science
Kirkland, Olin - Business Management & Information Technology
Krafe, Ralph E. - Physical Education
Lackey, Robert - Electronics
Landon, Norma K. - Health Careers
Lango, Peter M., Sr. - Physical Education
Lewis, Gaylen G. - Social Science
Lingo, Marci - Library
Lockford, Joyce C. - English
Logan, Carolyn P. - Business Management & Information Technology
Ludeke, Jerry L. - Academic Development
Lyman, John C. - Physical Science, Geography, Geology
Lyman, Margaret - Foreign Language
Magner, Nancy - Art
Marquez, Fernando - Business Management & Information Technology
Martinez, Alexa C. - Allied Health, Behavioral Science
McKay, Peter B. - Economics, Business Management & Information Technology
Meert, Paul - Mathematics
Meier, Bruce N. - History, Business Management & Information Technology
Meier, Bruce N. - Business Law
Messick, Randall - Theatre Arts
Michalski, Ann - Nursing
Milliken, Yvonne W. - Administration
Moore, Carol A. - Business Management & Information Technology
Murillo, Daniel J. - Counseling
Naso, Albert - Art
Nelson, William G. - Physical Education
Newton, Joe M. - Real Estate
Nystrom, Daniel R. - Life Science
O’Nesky, Carolyn H. - Nursing
Osterkamp, Dalene M. - Art
Page, Charles - Engineering & Industrial Technology
Palitz, Merriem - English
Parsons, Robert B. - Mathematics, Physical Science
Page, Charles - Engineering & Industrial Technology
Palitz, Merriem - English
Pfutzenreuter, Bruce - Physical Education
Phillips, Gene - Business Management & Information Technology
Pollard, Harvel - Physical Education
Poole, E. Donald - Physics
Porter, Joyce - Communication
Pratt, Paul - Life Science
Rhea, David - Philosophy
Rice, Norma - Allied Health
Rippey, Clayton - Art
Robinson, Chalita M. - Art
Romanowich, Christine - Nursing
Rosales, David - History
Rosson, Phillip R. - Engineering & Industrial Technology
Sampley, Deann - Foreign Language/ASL
Schiffman, Robert - Physical Science
Self, Mary Anne - Administration
Selby-Dabbs, Phyllis - Communication
Selvera, Frank L. - Library
Shaffer, Patrick O. - Administration
Sharpe, Carol - Family & Consumer Education
Sheldon, Harriett - Administration
Sherman, Archibald W. - Administration
Sierra, Sandra - Counseling
Silver, A.B. - Behavioral Science
Slate, Allen R. - Mathematics
Stanley, Dorothy - Mathematics
Stansbury, Donald L. - English
Strome, Paula - Computer Studies
Tatsuno, Marlene - Art
Tillman, Patricia E. - Health Careers
Tolle, Alan E. - Life Science
Trujillo, Rene - Philosophy
Tuttle, Robert E. - Engineering & Industrial Technology
Verhine, Clyde E. - Social Science
Wall, Chuck - Business Management & Information Technology,
Communication
Wall, Wendell Edgar - Biology
Ward, Ray M. - Physical Science
Warren, Harvey - Counseling
Webster, Persis - Foreign Language
Webb, Henry R. - Theatre Arts
Wicke, Robert - Physical Science
Wilson, Harry S. - Photography
Worthington, Marilyn - Family & Consumer Education
Wright, Richard - Psychology
Wulf, Evelyn M. - Library
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