Clarity the STEM Pathways

A. Creating curriculum guides (SEPs).
   a. Entire team effort in conjunction with WARBA and at Pathway Institutes.
B. Detail job opportunities for STEM majors locally, nationally and internationally.
   a. Added job opportunities to draft STEM brochure - Nick Strobel and Andrea Garrison leads
C. Define transfer opportunities, agreements and guides including programs and schools not normally considered by students.
   b. Developed and got State approval for new Environmental Science AS-T Oct. 2017 through June 2018 – Patrick Fulks and Katie Ganster leads
D. Quantify courses and sections needed annually to support current and incoming students to complete pathways.
E. Identify resource needs to sustain courses needed and student success, and then find funding sources for these.

Get Students on STEM Pathways

A. Organize events for new STEM student welcome, meet faculty, club info, and STEM career info.
B. Organize STEM faculty involvement in and information for Summer Bridge.
   a. Multiple faculty working Summer 2018
C. Work with the Kern California Academic Partnership Program (CAPP), the Kern Promise or other outreach activities to promote STEM student interest and career awareness in K-12.
   a. Stephen Waller lead for CAPP
   b. Other K-12 and community outreach by Yadira Guerrero (grant and Foundation supported), Connie Gonzales (grant and Foundation supported), Joe Saldivar, Scott Peat, Debbie Rosenthal
D. Track and improve Multiple Measures placement, AP credit, CLEP credit, and dual enrollment processes to get incoming students ready to take MATH B6A Calculus I.
   a. Discussed new Multiple Measures placement and AB 705 with math faculty and at Completion Coaching Team meetings – Stephen Waller lead
E. Other
   a. Completed STEM pathway video, Feb. 2018 – Scott Peat lead

Keep Students on STEM Pathways

A. Work with Starfish team to implement this program as needed to support STEM students.
   a. Piloted Starfish with a two STEM faculty – Spring 2018 – Marc Osea lead
B. Train STEM faculty on how to use Early Alert and (when available) Starfish.
C. Create on-campus STEM general interest events around national or professional discipline days.
   b. STEM / Pre-Health Conference, Mar. 2, 2018 – Connie Gonzalez lead
   c. STEM Celebrates National PI Day, Mar. 14, 2018 – Claire Lahorgue lead
D. Create grants and other opportunities to support STEM Mentors and Assistants and scholarships to promote degree completion and transfer.
a. Submitted new NSF S-STEM scholarship grant application for $1,000,000 over 5 years - Mike Fredenberg lead

E. Create, request, and communicate data reports to inform department chairs and the dean of areas such as course needs, schedule conflicts, students in majors, students not registered and students near graduation.
   a. Identified students at or near graduation requirements with Morgan Bohnsack, Spring 2018 – Stephen Waller lead

F. Help organize efforts to contact students who have not registered for their required next semester courses. This may include communicating information to student workers or other to do phone banking.
   a. Used emails to every STEM student not registered in Spring 2018 by Dec. 5, 2017 – Stephen Waller lead

G. Keep students focused on persisting and not withdrawing.
   a. Created letter for STEM faculty to explain to students the negative impacts of withdrawing from STEM courses, Feb. 2018 – Scott Peat lead with help from Yadira and other faculty
   b. Created weekly messages for STEM faculty to use to encourage “grit” in STEM students, Sept. 2017 – Stephen Waller lead with input from entire team
   c. Established Foundation scholarship funds – Mike Daniel Chemistry Lead, Isabel Stierle Biology lead

H. Respond to data that indicates student momentum point metrics with recommendations for action:
   1. Completion of math and English in 1st year.
   2. Completion of 15 units within 1st semester.
      a. Used Institutional Effectiveness data to contact students in Fall 2017 – Armando Trujillo lead
   3. Completion of 30 units within 1st year.
   4. Successful graduation within 3 years.

Ensure Learning

A. Communicate and discuss STEM Program Reviews and program Learning Outcomes to and with STEM faculty and students and with the College where appropriate.

B. Encourage STEM club membership, vitality, and impact on student learning and program learning outcomes.
   a. Clubs were present at STEM events to recruit new students and to help with activities.

C. Promote student participation in Academic Support Services.
   a. Math faculty encouraged student attendance at the “Extend the Classroom”.
   b. New NSF and Title V grant applications include funding for additional Peer Assistants and fulltime TA’s specifically to help STEM students with learning needs.

STEM Completion Coaching Team Meeting Dates in 2017-18

   Friday Meetings – Approximately every other week

   Fall 2017 - August 25, September 8 & 22, October 6 & 20, December 1