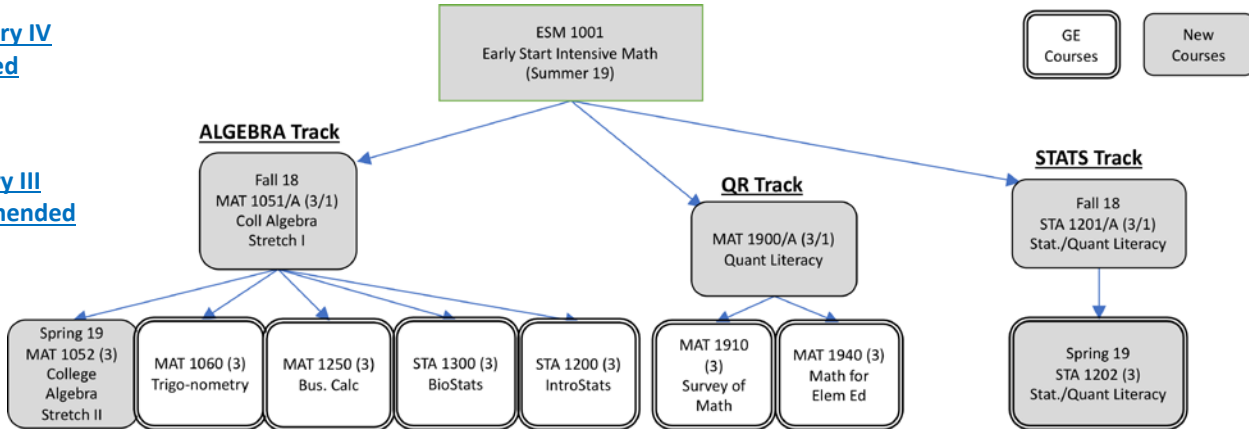**Course Redesign for EO 1110 Implementation**
Pathways for students placed into Categories III and IV
Department of Mathematics & Statistics
March 20, 2018

*Gray boxes indicate new courses developed for EO 1110.

*Courses on bottom level with doubled edging (*except* MAT 1052) satisfy GE requirements.
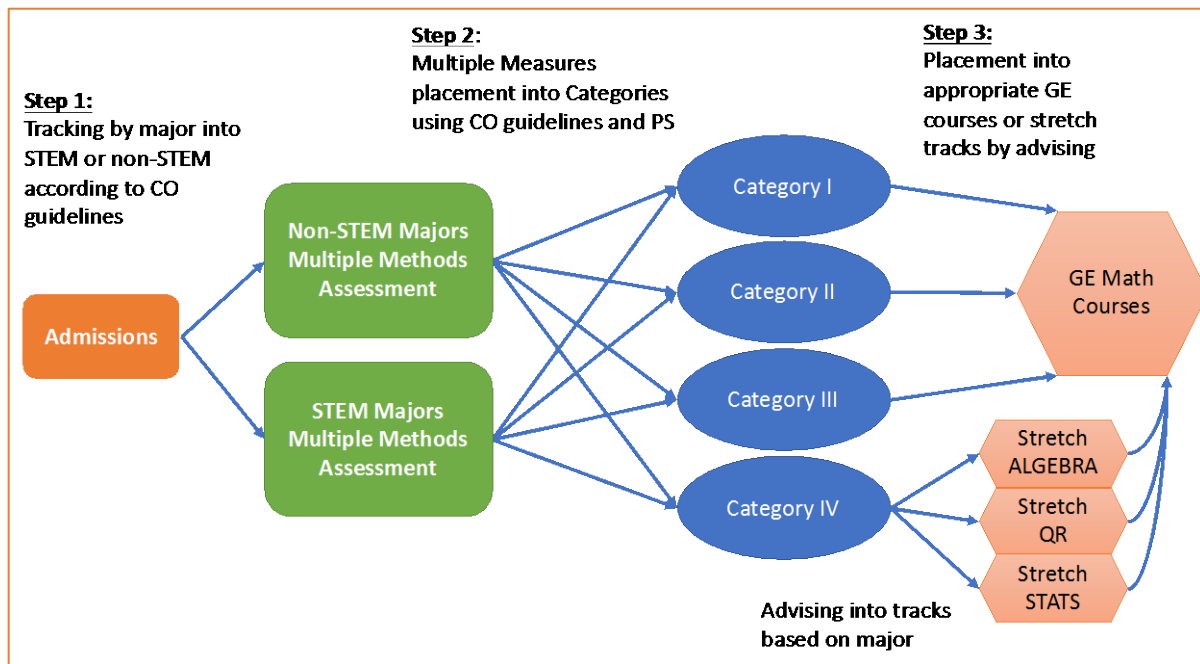
NOTES

- Course equivalents
  - ALGEBRA track: 2-sem *stretch* [MAT 1051/A* + MAT 1052] equals MAT 1050 (1 sem)
  - STATS track: 2-sem *stretch* [STA 1201/A* + MAT 1202] equals STA 1200 (1 sem)

  *Activity units in stretch courses include 1-hour of face-to-face classroom instruction and 1-hour of participation in the *Math Emporium*, i.e., a room where students complete assignments individually or in groups with access to computers, whiteboards, and instructors/tutors.

- Math Placement will be done using "multi-measures" by the Chancellor's Office and students will be placed into (4) categories.
  - Category I – GE math satisfied; begin next level math for major.
  - Category II – start with GE MAT or STA course.
  - **Category III** – *recommended* to start with a *stretch* course in ALGEBRA, QR or STATS track.
  - **Category IV** – *required* Early Start followed by a *stretch* course in ALGEBRA, QR or STATS track.

- Students can move between tracks as follows:
  - Students who complete either MAT 1900/A (QR track) or STA 1201/A (STATS track) can take a placement test to enroll in MAT 1050 (Algebra), 1060 (Trig) or 1250 (Bus Calc); or they can enroll in MAT 1051/A (Algebra-stretch).
  - Students who complete the ALGEBRA track can take courses from the QR or STATS tracks.

- Co-req options will be explored in phase 2 of this course redesign.

Placement is a multi-step process.

- **Step 1**: Majors classified as STEM and nonSTEM.
- **Step 2**: Multiple measures assessment to place into Categories
- **Step 3**: Placement into appropriate GE Math course or Stretch track (ALGEBRA, QR, STATS)

Step 1:
Tracking by major into STEM or non-STEM according to CO guidelines

Step 2:
Multiple Measures placement into Categories using CO guidelines and PS

Step 3:
Placement into appropriate GE courses or stretch tracks by advising

Admissions

Non-STEM Majors Multiple Methods Assessment

STEM Majors Multiple Methods Assessment

Category I

Category II

Category III

Category IV

GE Math Courses

Stretch ALGEBRA

Stretch QR

Stretch STATS

Advising into tracks based on major

The Chancellor's Office is responsible for:

- (**Step 1**) Designating which majors are considered STEM vs. nonSTEM
- (**Step 2**) Designing the assessment based on multiple measures
- (**Step 2**) Providing needed software to implement Step 2 in PeopleSoft. Software is being provided by Chancellor's Office in two phases. Phase 1 is in production here at Cal Poly. Phase 2 is expected at end of March.

Cal Poly staff from Admissions, Student Success, Early Start, EAP, Registrars, and others will:

- (**Step 2**) Use PeopleSoft to implement the multiple measures assessment and assign Categories.
- (**Step 3**) Create documentation to assist advisors and faculty in placing students into appropriate math courses.

Advisors, faculty, and staff are responsible for:

- (**Step 3**) Knowing the appropriate math GE or math stretch track for students in different majors. Advising students on the appropriate math course.