

2005–2006 Program Review Update
Mathematics and Statistics
Yuba College

The Mathematics Department

November 30, 2005

Date of next program review: 2008–2009

1. Based upon the data provided, briefly explain the current status of the program.
 - Marysville campus
 - Lecture rooms: 11.
 - Faculty offices: 5 for faculty assigned f-t to teaching math and stats; 3 for f-t faculty with partial load assignments in math.
 - Room 847 computer lab is used for stats with 30 computers and licenses for stats software.
 - Room 700 Hard Math Cafe is used for drop-in math tutoring; 5 computers are available for student use in the adjoining Room 701 (MESA).
 - Clear Lake campus
 - Lecture classrooms: 2.
 - Faculty offices: 1 for faculty assigned f-t to teaching math and stats; 1 for f-t faculty with partial load assignments in math and stats.
 - Room 400 business lab has a bank of 30 computers and licenses for stats software.
 - Woodland campus
 - Lecture classrooms: 7.
 - Faculty offices: 2 for faculty assigned f-t to teaching math and stats; 1 for f-t faculty with partial load assignments in math.
 - Room 702 has a bank of 30 computers and licenses for stats software. Room 702 is an English/math computer lab.
 - Beale AFB center
 - Lecture classrooms: 2.
 - Faculty offices: None; no f-t faculty assigned to the center.
2. Explain significant changes in the program since the last program review or annual update.
 - Marysville campus

1 f-t faculty with partial load in math (D. Richter) has been away due to an extended illness; 1 f-t faculty with partial load in math (J. Brown) has been reassigned to the Woodland campus; 1 f-t faculty with partial load in math (S. Klein) is on reduced work load.
 - Woodland campus

1 f-t faculty replacement currently advertised; to be filled by fall 2006.
3. Briefly explain significant changes expected during the upcoming year.

Marysville campus

 - Expected retirement of 1 f-t faculty with partial load assignment in math (engineering/math); expected reduced work load of 1 f-t faculty with partial load assignment in math (computer science/math).
 - Current remodeling of Bldg 800 may result in different classrooms and different faculty offices.
4. Briefly identify the current program needs in each of the following areas:
 - Curriculum and Program Directions
 - On April 9, 2005, at the Spring Plenary Session of the Academic Senate of California Community Colleges, the following resolution was passed:

9.02 Change the Current Title 5 Requirement for Mathematics

Resolved, That the Academic Senate for California Community Colleges recommend to the Board of Governors that the associate degree minimum requirement for Mathematics in Title 5, section 55805.5, be changed to read “a mathematics course at the level of the course typically known as intermediate algebra, either intermediate algebra or another mathematics course at the same level, with the same rigor and with elementary algebra as a prerequisite, approved locally.”

Resolution 9.02 passed with 63 delegates voting in favor and 46 against.

- Increase course units for Math 50 and Math 52 from 4 units to 5 units.
 - Set reasonable class cap sizes on math and stats courses.
 - Fund student grading help for f-t faculty at an appropriate level, at least to reflect changes in the minimum wage over the last 50 years.
 - Make tutoring available for evening students at all campuses and throughout the day at the Woodland campus and the Clear Lake campus.
- Staffing
 - Marysville campus
 - * There is a need to replace 1 f-t faculty for math (to replace two f-t faculty with partial load assignments in math: J. Brown and S. Klein). This need is made more urgent with one more f-t faculty with a partial load assignment in math (D. Richter) to go on reduced work load.
 - * There is a need to hire at least one new f-t faculty for math in the near future.
 - Woodland campus
 - * There is a need to hire one f-t faculty for math in the near future.
 - * There is a need to explore funding to staff a drop-in math lab when the new LRC is open because the LRC will have a room that will be designated as a writing/math lab for drop-in help.
 - All campuses

There is a need to provide at least 20% release time or a commensurate stipend for each of three math coordinators.
 - Equipment

All campuses

 - Purchase math software. (Matlab, Maple, Mathematica, and Geometer’s Sketchpad are examples.)
 - Upgrade faculty computers to handle better the latest math and stats software.
 - Facilities
 - Marysville campus
 - * Construct a new building to house modern classrooms, labs, the Hard Math Cafe, the MESA Center, conference/meeting room, and faculty offices (f-t and adjunct) for mathematics, engineering, drafting, and computer science.
 - * Replace the remaining malfunctioning HVAC units in Bldg 700 faculty offices.
 - * Replace white boards in classrooms and labs.
 - Woodland campus
 - * Need access to a computer lab.
 - * Need a room for faculty to host drop-in math help (similar to the Hard Math Cafe on the Marysville campus).
 - Clear Lake campus

Need a room for faculty to host drop-in math help (similar to the Hard Math Cafe on the Marysville campus).

- What progress has been made on recommendations from the last program review and/or annual update?
 - Marysville campus
 - * Two offices in Bldg 700 will have HVAC replaced.
 - * White boards in Bldg 800 will be replaced as part of the remodeling of the building.
 - Woodland campus
 - 1 f-t faculty will be hired in December, 2005, to replace 1 resignation (A. Damoose).
 - Clear Lake campus
 - * There is now some tutoring available at a number of different times of the day throughout the week, but still not available all day, every day.
 - * There is a computer lab for statistics.
 - All campuses
 - * The Mathematics Department has recommended to the Curriculum Committee the following change to the associate degree graduation requirements:

Beginning Fall 2006, the mathematics requirement for an A.A./A.S. degree shall be: (1) any Yuba Community College District mathematics or statistics course that has Math 50 as a prerequisite or (2) any higher level Yuba Community College District mathematics or statistics course.

The proposed change to the mathematics graduation requirement is only one level above the current requirement, and is still at a level below the transfer-level. The proposed change to the mathematics graduation requirement is in line with both the statewide Academic Senate resolution to amend Title 5 and the YCCD Education Master Plan, the latter of which states (p. 20),

Currently YCCD requires the lowest levels of math and English permissible by Title 5 to award its students an Associate Degree. The data above, however, indicates that the majority of YCCD graduates are capable of a more challenging graduation requirement in both disciplines.
 - * Minitab software upgrade to the latest release to match textbook assignments has been purchased and installed.
 - * Adjunct faculty are being paid for 1 office hour per week.

Program Review Annual Update Data

Program: Mathematics

Year: 2004-05

Annual	2004-05
Total WSCH	12,572.7
Annual CO FTEF	6.09
Annual EP/NC FTEF	4.47
Annual Total FTEF	10.56
Average WSCH per total FTEF	595.86
FTES	419.09

(This data sheet is to be completed using district-wide data from the Instructor Load/FTEF/WSCH/FTES book from the Office of Instruction. This data sheet is to be included with the Academic Review Annual Update.)