

Math Lab

Program Goal: Our goal is to provide a comfortable, respectful and encouraging environment in which students can use resources and receive one-on-one tutoring to help them better understand various math concepts.

Courses Tutored:

- B4-level math courses (GEM 100, Math 115, 125, 132, 160, 162, 210, 212, 303, 304, and 311)
- Proficiency math courses (MATP 15, 50, and Math 51)
- Preparation for standardized exams such as the Entry Level Mathematics (ELM) examination, the C-Set Single Subject Math Exam, and the GRE.

Resources and Services Provided

1. Various resources are provided to assist students in their self-study efforts and are available for use in the Math Lab.

- Student handouts – Math Lab tutors and staff develop handouts for students, illustrating concepts to aid in the understanding of course material. These handouts are provided in hard copy and electronic formats for students' convenience. Students can take these handouts with them or print them out at a location of their choosing.
- Textbooks – Math textbooks are provided for students who may not be able to afford to purchase them. Students can check out these textbooks and use them in the Math Lab.
- Student Solution manuals- while the answers to odd questions are located in the back of the textbooks, the solution manual show all the work, step by step, on how to reach the correct solution.
- Manipulatives – When the geometry studies include concepts involving platonic solids, have a 3-D model of such items, and for pyramids and prisms, the Math Lab provides students a set of these so they can see the edges, vertices, and faces. Also available are sets of special dice used in the study of probability in GEM 100.
- Calculators – Some CSUSM math courses require students to use calculators with special functions, such as graphing calculators, or calculators that show 2 lines of entries, they may not be able to afford. These calculators are provided for students to check out and use in the Math Lab.
- Computers- for student to receive assistance while working on assignments in ALEKS or on Web Assign. The 12 computers were all in full used 15 days in the Fall 2010 semester so we had four additional computers installed during the semester break. There are now 16 computers for students to use for their Math assignment.
- Class Binders – Some math instructors provide class binders with class syllabi, homework assignments, and homework, quiz, and test solutions for students to refer to in the Math Lab.

Term	Textbooks	Student Solution Manuals	Calculators
• Summer 2010	• 43	• 5	• 4
• Fall 2010	• 688	• 580	• 298

2. Free walk-in tutoring.

- Students can visit the Math Lab on a walk-in basis and stay as long as they want for individual tutoring, group work, their instructors' office hours, use of Math Lab resources, and use of Math Lab learning tools.
- Students' visits to the Math Lab have increased by 17% from the Fall semester of 2009 to the Fall semester of 2010 (4833 visits in Fall 2009 to 5661 visits in Fall 2010).
- The duration of students' visits to the Math Lab have increased by 21% from the Fall semester of 2009 to the Fall semester of 2010 (6060 hours in Fall 2009 with an average visit duration of 1.17 hours to 7312 hours in Fall 2010 with an average visit duration of 1.33 hours).

3. A space for instructors to provide office hours and assist their students regularly.

- Spring 2011 there are 6 Math Lecturers holding office hours in the Math Lab for a total of 11 hours. Students can work individually or in groups with their professors or on their computer assignments. The Lecturers also assist students other than their own (often former students) when they have free time.

4. Opportunities for instructors to provide make-up exams and quizzes for their students.

- Approximately 250-300 make-up exams and quizzes are proctored in the Math Lab each semester.