Math 1 Calculus 1
Course Information Sheet

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COURSE MATERIALS

- **Software (Optional):** Enhanced Web Assign™
  - If you want to use Enhanced Web Assign™ you have to inform the bookstore beforehand and they can bundle the textbooks with an Enhanced Web Assign™ access code.
- **Calculator:** While technology assignments are required for ILC assignments (see below), the students **should not** be allowed to use calculators for the majority of the exam questions. Be warned. There are many calculators that will graph, take derivatives, find critical points, find antiderivatives, etc. Obviously the Las Positas Mathematics department would be upset if you allowed your students to just type exam questions into a machine and then regurgitate the answer back.

COURSE CONTENT

Cover sections 1.5-1.8, 2.1-2.9, 3.1-3.9, 4.1-4.5, 5.1-5.5 (Omit 5.4), 6.1, 6.2 or 6.2*, 6.3 or 6.3*, and 6.4 or 6.4*.

- **Suggested pacing (17 week):**
  - Weeks 1 through 4: Sections 1.4 to 2.5 or 2.6 and EXAM 1.
  - Weeks 5 through 8: Sections 2.6 or 2.7 to 3.6 and EXAM 2.
  - Weeks 9 through 12: Sections 3.7 to 4.5 and EXAM 3.
  - Weeks 13 through 16: Sections 5.1 to 6.4 (Omit 5.4) and EXAM 4.
  - Week 17: Cumulative Final Exam with Student Learning Outcome questions.

- **Suggested pacing (8 week):**
  - Weeks 1 through 2: Sections 1.4 to 2.6 and EXAM 1.
  - Weeks 3 through 4: Sections 2.7 to 3.6 and EXAM 2.
  - Weeks 5 through 6: Sections 3.7 to 5.1 and EXAM 3.
  - Weeks 7 through 8: Sections 5.2 to 6.4 (Omit 5.4) and cumulative Final Exam.

Since the ILC has computers with mathematics software such as MAPLE and MATLAB, it is suggested that the instructor consider using the ILC Labs to augment sections:

- 1.4, 1.5, 2.7, 2.9, 3.6, 3.8, 4.1, and 4.2.

COURSE OUTLINE OF RECORD

- All course outlines can be found on the LPC website under Programs/Courses:
  
  http://www.laspositascollege.edu/courseOutlines/MATH/index.php

- Your teaching contract requires that you cover all of the material listed in the Course Outline of Record.
- The course outline is our contract with our transfer institutions, with each other, and with our students about what the course will include.
- Any instructor who does not carefully follow the course outline risks the possibility of not being allowed to teach that course again at LPC.

COURSE SYLLABUS

Your syllabus for this course should include the following information:
Textbook and software requirements
Student Learning Outcomes (see below)
Course Objectives (see Course Outline of Record)
LPC repeatability policy (see below)
TBA Lab Hour Requirements/Policies (see below)

STUDENT LEARNING OUTCOMES

Student Learning Outcomes, SLOs, are learning proficiencies the Mathematics Department has determined students should be able to demonstrate at the end of the course. Course-level SLOs for Math 1 connect with our program-level SLOs of communication, multiple representations, problem-solving, and modeling.

Although assessment of SLOs is voluntary for adjunct faculty, we encourage all instructors to participate in the SLO assessment process as collection of SLO data is essential for program review and compliance with accreditation standards.

SLO assessment process:
- All SLO’s should be assessed on the final exam, except for the one labeled Lab, one question per SLO (each instructor writes their own assessment).
- Assessments should reflect the appropriate level of rigor for the course and must specifically address the SLO being assessed.
- The scoring rubric is 3 for correct understanding of the concept, 2 for partial understanding of the concept, 1 for little or no understanding of the concept, and 0 for a non-attempt.
- Results should be entered into eLumen, the SLO data base, either aggregated for the class, or by individual student. For help with eLumen, contact the coordinator for this course.

The following course-level SLOs should be listed in your course syllabus.

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<thead>
<tr>
<th>Program-Level SLO</th>
<th>Course-Level SLO</th>
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<tbody>
<tr>
<td>Communication</td>
<td>Solve and interpret the solution to a related rates problem.</td>
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<tr>
<td>Modeling</td>
<td>Find the volume of a solid revolution using washers or shells.</td>
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<tr>
<td>Problem Solving</td>
<td>Integrate a function using trigonometric substitution.</td>
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<tr>
<td>Technology (Lab)</td>
<td>Use a graphing calculator (and/or other technology) to analyze the behavior of a function graphically and numerically.</td>
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TBA LAB HOUR
- There is a required TBA (to be arranged) lab hour attached to this course. This is an instructional (50 minute) hour.
- Compliance with all TBA lab hour requirements and policies is essential, as audits by the State Chancellor’s office are conducted on a regular basis and schools found not to be in compliance face stiff monetary penalties.
- Policies and Requirements:
  - Students complete their lab hour requirement by logging one hour in the Open Math Lab (Integrated Learning Center) each week and working on TBA lab hour assignments.
  - Students must log eighteen (50 minute) lab hours (one per week for the 17-1/2 week semester). This is equivalent to fifteen 60-minute hours.
  - Students must log at least one lab hour prior to the census date (check the academic calendar for the census date).
• IMPORTANT: students who do not log at least one hour prior to the census date cannot be claimed for apportionment by the college. For this reason, any student who does not meet this requirement must be dropped NGR.
  - Each student must complete a TBA Lab Hour contract. The contract will be available for download from the Mathematics Department website.
  - Contracts should be completed by the end of the first week of instruction.
  - Instructors keep the contracts until the end of the semester, at which time they should be given to the Division office for archiving.
  - Lab assignments cannot be homework
  - Lab assignments must constitute a portion of the students’ grade for the course.
• Encourage your students to use the Open Math Lab as a resource for studying and getting help.

REPEATABILITY
There is a new state-mandated Repetition Policy for the Chabot-Las Positas District that is retroactive to the date a student first started taking courses within the district (at either Chabot or Las Positas)
What does this mean for students?
• Within the district, a student is allowed to attempt a course (or courses equivalent to it) at total of THREE TIMES. If the first attempt is unsuccessful (W, D, F, or NC (No Credit)), a student has two additional attempts to complete the course with a passing grade (C, B, A or Cr (Credit)).
• After three attempts to pass a course (or equivalent course), students will be blocked from registering for that course (or its equivalents) again at either Las Positas or Chabot College unless a special circumstance petition is approved, as described in the Administrative Rules and Procedures.
• More information can be found at the following link: