

## Math 101A- 01 – Calculus with Analytic Geometry

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Room: NC 2120

Office Hours: MW: 6:00-6:30 PM, Room NC 2120

Fall 2011

MW 6:30 – 9:15 PM

Section#: 050203 - (01)

Course Descriptions: This course includes the study of limits, continuity, differentiation, applications, and introduction to integration.

**\*This is a web-enhanced course.** Information such as the class Syllabus, homework assignments, activities, Power Point presentations, test scores, test solutions, attendance and grades, will be posted on Ohlone's Blackboard website.

Textbook: Calculus- Early Transcendental Functions, third edition by Smith & Minton.  
The Student's Solution Manual is highly recommended.

Student Learning Outcomes (SLO's): By the end of the semester, you will be able to:

- Compute limits using numerical, graphical, and algebraic methods.
- Differentiate algebraic, trigonometric, logarithmic, exponential, and inverse trig functions.
- Apply differentiation to problems in the areas of geometry, physics, engineering, and business, including slopes of tangent lines and rates of change.
- Integrate algebraic, trigonometric, and exponential functions using introductory techniques.

Materials needed: Graphing calculator (no higher than TI-89), ruler, stapler, and graph paper.

Attendance: Attendance is required. You are considered absent if you miss more than 20 minutes of class. Since this class meets twice a week, if you miss more than 4 days, you will not receive credit for this course. Also, you will receive an F if you stop attending class and do not officially drop by the drop deadline.

Academic Dishonesty: This includes, but is not limited to: cheating, copying work of others, permitting others to copy your work, submitting work done by others, and altering work after grading and submitting it for re-grading. See the Ohlone College catalog for more details.

Homework: Use white, lined, 8 by 11 inch paper. Homework is assigned during every class and is collected on the day of each Chapter Test. Each section is worth two points and is graded on accuracy, completeness, and legibility. See the Homework Rubric for more details. **Late homework will not be accepted.**

Exams: There will be 5 Chapter Tests, each worth 100 points. The Final Exam is worth 100 points, and may replace any missed or low test scores **provided that you have:**  
1) not missed more than 4 days of class, 2) attempted at least 4 of the 5 Chapter Tests, and

3) at least 90% of the homework completed (66 out of 74 possible points).

**No late arrivals allowed to exams.**

Quizzes: Quizzes may be announced or unannounced. **No make-ups on quizzes.**

Grade: Chapter Tests: 500 total points possible (72% of your grade)

Homework: 74 total points possible (10% of your grade)

Quizzes: 25 total points possible (4% of your grade)

Final Exam: 100 total points possible (14% of your grade)

$$\% = [(Chapter\ Tests + Homework + Quizzes + Final) / Total\ Points\ Possible] * 100$$
$$[(500 + 74 + 25 + 100) / 699] * 100$$

A: 90's    B: 80's    C: 70's    D: 60's    F: 50's and below

Tutoring: Free tutoring is available in the Math Learning Center.

### Math 101A Calculus – Syllabus

Aug 29: Intro., 0.1, 0.2

Aug 31: 0.3, 0.4

Oct 24: 3.1, 3.2

Oct 26: 3.3, 3.4

Sep 5: **Holiday!**

Sep 7: 0.5, 0.6

Oct 31: 3.5, 3.6

Nov 2: 3.7, 3.8

Sep 12: Review, **Test 0**

Sep 14: 1.1, 1.2

Nov 7: Review

Nov 9: Review, **Test 3**

Sep 19: 1.3, 1.4

Sep 21: 1.5, 1.6

Nov 14: 4.1, 4.2

Nov 16: 4.3, 4.4

Sep 26: (1.7), Review

Sep 28: Review, **Test 1**

Nov 21: 4.5, 4.6

Nov 23: 4.7, 4.8

Oct 3: 2.1, 2.2

Oct 5: 2.3, 2.4

Nov 28: Review

Nov 30: Review, **Test 4**

Oct 10: 2.5, 2.6

Oct 12: 2.7, 2.8

Dec 5: Review for Final

Dec 7: Review for Final

Oct 17: 2.9, Review

Oct 19: Review, **Test 2**

Dec 12: **Final Exam** 7-9 PM

Dec 14: No Class!

The Assigned Homework problems are: 1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, ...

Course	Course Name	Text	Coverage
Math 101A	Calculus and Analytic Geometry	<i>Calculus Early Transcendental Functions</i> , 3rd ed., Smith and Minton, 2007, <a href="#">McGraw-Hill</a> <sup>[2]</sup> ISBN-13 9780072869538 (complete text)  ISBN-13 9780073309439 (single variable only)	Ch. 0 - 4  omit 0.6  1.7 & 3.9 optional  limited coverage of 1.6, 4.7, & 4.8

Since your work is graded on **Quality and not Quantity**, the following rubrics are used:

**Homework Rubric:**

Points	Reasons
0	Most problems or steps are incorrect; Incomplete: missing at least 50% of the assigned problems or not enough steps shown; Too hard to read or follow.
1	Some incorrect steps; Incomplete: missing up to 30% of the assigned problems or not enough steps shown; Hard to read or follow at times.
2	At least 90% of the assigned section is correct, complete, and legible.

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**Test Rubric:**

Points	Reasons
0-3	Most of the steps are incorrect, incomplete, or missing; Used the wrong formula or method; Solved across and not downward; Too hard to read or follow;
4-7	Some of the steps do not follow algebraically; Some incorrect signs, steps, or procedures; Hard to read or follow at times;
8-10	Most or all of the problem is correct and complete; Follows algebraically; Easy to read and follow

