Math 402 Calculus Syllabus Spring 2016

Pietromonaco

This syllabus along with grades and supplemental support material can be found at www.flc.losrios.edu/~pietrod. It is expected you can navigate the internet to access material and information pertaining to the course.

Disclaimer: All information in the syllabus is subject to change if the instructor(s) finds it necessary. Any changes will be announced during a class session. Absent students are still responsible for any announced changes.

Instructor: Dean Pietromonaco www.flc.losrios.edu/~pietrod,


Bring the text to each class meeting

Attendance: Roll will be taken and you may be dropped from the course if you miss more than 3 class meetings. If you are late more than 10 minutes, or you miss any ten minute period of class it will be counted as an absence. If you miss more than 3 classes and it is after the drop deadline your grade will be recorded as an F. You are responsible for any work/worksheets that you miss, I do not hold onto worksheets, so if you miss a day make sure a class mate gets a worksheet for you. If you are absent when tests are handed back please request test after class or during my office hour

Special Note: If your cell phone is viewable or noticeable you will be asked to leave and it will be recorded as an absence. If you leave the class to talk on your phone it will be counted as an absence and your highest test score will be recorded as a zero. Additionally all rules of the school both behaviorally and academically will be enforced. In attentiveness will be considered a disruption, if you are disrupting the learning environment you will be asked to leave the class for the day and will be marked absent. There are unannounced quizzes except on days a test is given. There will also on occasion be a quiz at the end of a class session. If you leave earlier or come late on a day a quiz is given your score may be recorded as a zero. Between 0 and 2 quizzes will be dropped, I do so because I understand not everyone can make it to every class meeting, and I also know sometimes we just don’t score well on a quiz. You may not under any circumstances drop more than 2 quizzes. Quizzes need to have your name the date and class number on the upper right hand corner of the paper. All assignments need to be placed in the order they were assigned. If you are not in class when work is passed back you
may come by my office to pick up work. The grade on your final may replace the grade of your lowest exam.

Prerequisites: Calculus II with a C or better.

Office Hours:

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<td>11:10-1:00 p.m.</td>
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Tutorial Help: The hours and locations tutors are available are posted online, go to the FLC homepage and click on the Tutorial Services link for further information.

The Course: This is a five-unit course that meets for 5 hours of lecture each week. Credit for this course is degree applicable and transferable. This course extends the first year Calculus concepts of limits, derivatives and integrals to vector-valued functions and functions of more than one variable. Topics covered will include three-dimensional analytic geometry and vectors, partial derivatives, multiple integrals, line integrals, surface integrals, and theorems of Green, Gauss (Divergence), and Stokes. Many applications of the calculus will be included. You should expect to spend **at least ten hours per week** on homework and study outside of class in order to be successful in learning the material. In this course I cover the big concepts then the little details, you will be required to understand the big concepts.

Grading: Letter grades will be calculated based on the percentage of the total points, below is an approximate list of the points available during the semester.

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<th>Grading</th>
<th>Letter grades will be calculated based on the following overall percentages:</th>
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<tr>
<td>A: 90% - 100%</td>
<td>B: 80% - 89%</td>
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<td>D: 60% - 69%</td>
<td>F: below 60%</td>
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Homework: Assessed on Quizzes 5-40 points

Quizzes: 10 to 20 points, must attend entire class session for credit

Tests: 100 points, final exam .........................200-300 points.
Final Exam date and time is posted on the FLC Homepage.

Student Learning Outcomes for MATH 402

Upon completion of this course, the student will be able to:

- compute the curvature at any point on a space curve using vector operations.
- optimize a multivariate function on a space curve or plane region.
- utilize multiple integrals using rectangular, polar, cylindrical, or spherical coordinates in problems involving volume, moments, and mass.
- set up and evaluate line and surface integrals.
- apply Green’s Theorem, Stokes’, Theorem, and the Divergence Theorem to physics and engineering applications.

Resources: Classmates are the best resource, links to useful websites, can be found on the FLC math homepage [www.flc.losrios.edu/~flcmath](http://www.flc.losrios.edu/~flcmath).

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