Math 142 - Course Syllabus
Calculus I
Section 1: MWF 8:00-8:50am
Congdon Hall 147

Course Description

Math 142: The functions of calculus, limits, the derivative, formulas for derivatives and applications.

Welcome to calculus! As you may already know, calculus is a very big topic, and a very old topic. It was discovered/developed/invented by Newton and Leibniz in the mid 1600s. But what is calculus? A simple way to describe it is as the study of change. Plenty of things change in the world around us: the speed of your car as you drive, the amount of money in your bank account, the national unemployment level, etc. Today, calculus is a powerful tool used all around you in fields such as biology, economics, engineering, business, and more. During this semester, we’ll try to get a window into some of the powerful uses of calculus, and in order to do that, we will spend most of our time mastering the basics of differential calculus in one variable. What does that mean? By the end you will know, and you’ll have the tools you need to go on to learn even more about the beauty of calculus.

Basic Information

Instructor: Dr. Jenny G. Fuselier
Office: 153 Congdon Hall
Phone: (336) 841-9342
E-mail: jfuselie@highpoint.edu
Web Page: http://math.highpoint.edu/~jfuselie
Office Hours: MWF 9-10am, TTh 11:00am-12:00pm, or by appointment
Required Calculator: TI-89 or TI Voyage 200

Evaluation and Grading

- **Homework:** A list of homework problems is attached and also posted online for each section of the book. These homework problems will not be collected or graded, but are designed to give you practice on the course concepts. Graded homework will be given online using WebAssign. You should try the homework problems in the book and check answers in the back before attempting the graded WebAssign problems.

- **Quizzes/Classwork:** There will occasionally be short quizzes in class (some may be unannounced), and there may be occasional classwork to be turned in. No makeups will be given on these assignments.
• **Exams:** There will be 3 in class exams during the semester. Homework problems (book and WebAssign), as well as your notes from class will be excellent preparation for all exams. The tentative dates for these exams are February 12, March 22, and April 16.

• **Final Exam:** The final exam for this course is **Thursday, May 6, 8:30am-11:30am.**

• **Grading:** Your grade will be determined by the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Grade Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework/Quizzes/Class Work</td>
<td>15%</td>
<td>98 ≤ A+ ≤ 100 78 ≤ C+ &lt; 80</td>
</tr>
<tr>
<td>Exams</td>
<td>60%</td>
<td>92 ≤ A &lt; 98 72 ≤ C &lt; 78</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
<td>90 ≤ A− &lt; 92 70 ≤ C− &lt; 72</td>
</tr>
<tr>
<td></td>
<td></td>
<td>88 ≤ B+ &lt; 90 68 ≤ D+ &lt; 70</td>
</tr>
<tr>
<td></td>
<td></td>
<td>82 ≤ B &lt; 88 62 ≤ D &lt; 68</td>
</tr>
<tr>
<td></td>
<td></td>
<td>80 ≤ B− &lt; 82 60 ≤ D− &lt; 62</td>
</tr>
</tbody>
</table>

**Policies**

• **Attendance Policy:** You are expected to attend every class and be on time. Attendance will be taken each day, though it will not count as a portion of your grade.

• **Electronic Devices in Class:** Cell phones, PDAs, etc. should all be turned off prior to the start of class. I expect that you will not be texting, sending emails, using Facebook, surfing the web, etc. during class. This is disrespectful to both your instructor and your classmates. If a student’s phone makes noise during a test, that student will receive an F on the test.

• **Make-Up Policy:** Make-ups for missed class events will not be given. If you know in advance you will be missing an exam, you may contact me in advance to schedule a make-ahead. If you must miss an exam, it is your responsibility to contact me no later than 24 hours past the time of the exam to explain your absence. For those with one necessary absence (e.g. illness, death in the family, etc), your grade on the final exam will be used to replace the missed exam score.

• **Honor Policy:** All students should be familiar with, and abide by, the Honor Code. Copying work done by others, whether in or out of class, is cheating and will not be tolerated. If cheating is observed during an in-class event or plagiarism is discovered on an assignment, the student will receive a grade of zero for that event. The event will also be reported to the Dean of Students. For details on the Honor Code, see [http://www.highpoint.edu/campuslife/sga/](http://www.highpoint.edu/campuslife/sga/)

• **Academic Accommodations:** Students who require classroom accommodations due to a diagnosed disability must submit the appropriate documentation to Mrs. Irene Ingersoll, Coordinator for Disability Support, 405 Smith Library. Please inform her of your need for accommodations at the beginning of the semester. It is your responsibility as a college student to advocate for yourself. Accommodations are not retroactive.

• **Copyright Policy:** All printed materials disseminated in class or on the web are protected by Copyright laws. One xerox copy (or download from the web) is allowed for personal use. Multiple copies or sale of any of these materials is strictly prohibited.
• **Course Evaluations:** You will receive an email towards the end of the semester asking you to complete evaluations online for this course. Please complete them by the date indicated. (Yes, I really do read them!)

**Additional Information**

• A tentative schedule for the course is posted at http://math.highpoint.edu/~jfuselier/math142, and will be updated as we progress through the course.

• I will periodically send emails to your HPU accounts, and I will also update Blackboard frequently with class information. You need to be consistent in checking these sources in order to receive all necessary course announcements.

• **How to get help in this class:**
  
  – First, *please* ask questions in class! I will make every effort to answer your questions and get you back on track with the material, and asking questions in class will help to keep you from getting behind.

  – Please stop by my office hours if you have questions, or make an appointment with me if necessary.

  – Meet your classmates and form study group - this is a great way to stay on top of the material.

  – The math department faculty offer *free tutoring* to students during some weekday afternoons. I will announce more details about this in class, as they become available.

  – The university offers *free tutoring* to all student in the lower level of Smith Library. Please take advantage of this fantastic resource!

• If you have a question about the grading of an exam, you are responsible for contacting me *within one week* after receiving the graded assignment.

• The last day to drop this course without record is January 19. The last day to drop with a W grade is March 19.
Homework List

All problems are from the course textbook, listed on Page 1 of this syllabus.

1.1 - 1, 5, 7, 23, 25, 27, 29, 39, 43, 53, 59
1.3 - 3, 10, 11, 37, 39, 41, 45
1.7 - 1, 5, 7, 17-19
2.1 - 1, 3, 5, 7
2.2 - 1, 3, 5, 7, 13, 15, 17, 21
2.3 - 1, 3, 9, 11, 13, 15, 19, 21, 29
2.4 - 3, 7, 11, 15, 17, 31, 35
2.5 - 1, 3, 4, 5, 7, 9, 15, 19, 23, 25, 27, 31, 37
2.6 - 3, 5, 7, 9, 13, 17, 21, 33, 37, 47
2.7 - 3, 9, 19, 21, 23, 27, 35, 37
2.8 - 1, 3, 5, 8ab, 15, 17, 18, 19, 21
3.1 - 1-35 odd, 41, 43, 45
3.2 - 1-29 odd, 41, 43
3.3 - 1-13 odd, 19, 21, 30
3.4 - 1-35 odd, 41, 43, 47, 51, 53
3.5 - 3-17 odd, 22, 23
3.6 - 17-27 odd
3.7 - 1-13 odd, 17, 19, 27, 33-41 odd
3.8 - 1 and 3 (omit f, h, and i), 7, 9, 11a, 20a, 23
4.1 - 1-31 odd
4.2 - 1-53 odd
4.3 - 1-31 odd
4.5 - 5-45 odd
4.6 - 3, 5, 9, 11, 13, 15, 17, 23, 25, 35, 39, 53
4.8 - 1-35 odd
Ch. 4 Review (p. 324+) 1-13 odd (omit (a) on 7-13), 25-33 odd, 37, 39, 46, 53, 55