Syllabus : Calculus I

Ryan Jensen

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Contents

1 Course Information 1

1.1 Professor Information ........................................ 1
1.2 Course Description ........................................ 1
1.3 Text and Materials ........................................ 2
1.4 Course Calendar ........................................ 2
1.5 Course Requirements ....................................... 2
1.6 Grading ..................................................... 3
1.7 Other Information ........................................ 3

1 Course Information

1.1 Professor Information

• Dr. Ryan Jensen
• Email: jensenrj@sfasu.edu
• Website: https://mathnotes.cc
• Course Website: https://mathnotes.cc/teaching/calc1/
• Office: 320 Mathematics Building
• Office Phone: (936)-468-1636
• Office Hours:
  – MTWRF 9:00-10:00 in Math 320
• Course Meeting Time and Place
  – MWF 11:00-11:50 in Math 214
  – W 2:30-3:45 in Math 359

1.2 Course Description

This course is 4 semester hours. The prerequisites are MTH 139 or MTH 140. Topics include limits, continuity, differentiation of algebraic, trigonometric, and other transcendental functions, and applications of differentiation, including optimization and curve sketching, antiderivatives, integration by substitution, definite integrals, the Fundamental Theorem of Calculus, and application of integration to areas of regions in the plane.
1.3 Text and Materials

The textbook is *Calculus Early Transcendentals*, 3rd edition, by Rogawski and Adams, ISBN 9781464114885. Topics for MTH 233 are included in chapters 2, 3, 4, and 5 of the text. For exams, students may use only a non-programmable, non-graphing calculator.

1.4 Course Calendar

Please note that the dates for our in-class exams below are subject to change. The final is university scheduled and cannot be taken at a different time without permission of the Dean of the College of Sciences and Mathematics. A more complete schedule can be found here.

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>Wednesday Feb. 12</td>
</tr>
<tr>
<td>Exam 2</td>
<td>Wednesday Mar. 18</td>
</tr>
<tr>
<td>Exam 3</td>
<td>Wednesday Apr. 8</td>
</tr>
<tr>
<td>Exam 4</td>
<td>Wednesday Apr. 29</td>
</tr>
<tr>
<td>Final</td>
<td>10:45-1:15 Wednesday May 6</td>
</tr>
</tbody>
</table>

1.5 Course Requirements

1.5.1 Class Attendance and Participation

Students are expected to attend all class meetings, arriving on time. If you are absent, you are responsible for determining what you missed and for being prepared for class when you return.

1.5.2 Preparing for Class

Students which are adequately prepared for the class should expect to spend a minimum of three hours of work for each credit hour (the federal definition of a credit hour requires two hours outside of class, I expect three, see below). This is 24-36 hours per week outside of class for Math 233 in the summer. Most of this time will be outside of class reading the text, practicing examples, and working homework exercises. A minimal time commitment is likely to lead to a final grade of a C. More time may be required to achieve excellence. Material to be discussed in class should be read before coming to class. Check your university email and the course website regularly, as I may send reminders, assignments, or announcements.

1.5.3 Lab Assignments

Labs will be turned in and graded. During the lab meetings, students will investigate various topics in calculus.

1.5.4 Homework

Homework will be assigned as exercises from the text, it will generally be due the Monday after the corresponding lecture. You will be required to turn in all the homework for a completion grade. In addition, some homework may be graded.

1.5.5 In-class exams

If a student must miss an exam due to an excused absence, special arrangements should be made in advance. Cell phones and graphing calculators are not allowed out during exams, even if that is all you brought. Students are responsible for bringing their own scientific calculator to exams. No music (even through headphones) is allowed during exams.

1.5.6 A Comprehensive Final Exam

The final exam is in our regular classroom on the date and time shown above.
1.6 Grading

1.6.1 Grading Policy

<table>
<thead>
<tr>
<th>Category</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Labs</td>
<td>10%</td>
</tr>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>10%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>10%</td>
</tr>
<tr>
<td>Exam 3</td>
<td>10%</td>
</tr>
<tr>
<td>Exam 4</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
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</table>

1.6.2 Grading Scale

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90%-100%</td>
</tr>
<tr>
<td>B</td>
<td>80%-90%</td>
</tr>
<tr>
<td>C</td>
<td>70%-80%</td>
</tr>
<tr>
<td>D</td>
<td>60%-70%</td>
</tr>
<tr>
<td>F</td>
<td>0%-60%</td>
</tr>
</tbody>
</table>

1.7 Other Information

The following is an excerpt from SFA Policy 5.4:

The federal definition of a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:

1. Not less than one hour of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or 10 to 12 weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time, or;

2. At least an equivalent amount of work as outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

To this end, all students in courses offered by the Department of Mathematics and Statistics that wish to be successful should plan to spend a minimum of two hours outside of class for every credit hour associated with this course. Expected activities to be completed in the time outside of class include reviewing notes from previous class meetings, reading assigned course resources, completing all assigned exercises and projects, and performing periodic assessment preparation.

See [http://www2.sfasu.edu/math/docs/syllabi/MTH233Syllabus.pdf](http://www2.sfasu.edu/math/docs/syllabi/MTH233Syllabus.pdf) for elements common to all sections.