Math 126 – Calculus II
Spring 2016

Lectures

<table>
<thead>
<tr>
<th>Location</th>
<th>Time</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>WES 3140</td>
<td>MWF 11:00 – 11:50pm</td>
<td>Jin Feng</td>
</tr>
<tr>
<td></td>
<td></td>
<td>snow 510</td>
</tr>
<tr>
<td>Snow 510</td>
<td>MWF 3:00-3:50pm</td>
<td>Joseph Brennan</td>
</tr>
<tr>
<td>Snow 631</td>
<td></td>
<td><a href="mailto:brennanj@ku.edu">brennanj@ku.edu</a></td>
</tr>
</tbody>
</table>

Required Items

Textbook: Calculus: Concepts & Contexts, 4E, by James Stewart
Access Code for WebAssign (typically obtained with the text)
iClicker Classroom Response System

Lectures are scheduled 3 times per week MWF and are led by either Dr. Feng or Dr. Brennan. Laboratory sections are scheduled 2 times per week TR or WF and are led by graduate teaching assistants.

This syllabus contains all of the basic information about the course you will need to know. Further details are given on Blackboard, and can be found by clicking on the links in the left navigation. For example, clicking on “Course Schedule” access the Weekly Schedule and clicking on “Week 1” accesses all information important to the first week of class.

Prerequisite

MATH 116, MATH 121, MATH 125, MATH 141 or MATH 145, with a grade of C- or higher.

Objectives and Course Contents

The course covers integral calculus, sequences and series, and the basics of vectors, covering most of Chapters 5, 6, 8, and 9 of the text. The precise sections to be covered are listed in the schedule given on Blackboard. The objective of the course is to acquire mastery of the material covered in the course in the following senses:

1. Mathematical understanding, as demonstrated by the ability to solve appropriate mathematical problems.
2. Practical understanding, as demonstrated by the ability to solve appropriate word problems in the sciences, in engineering and in the social sciences.

Grading System

The exact cut-off for each letter grade will not be determined until the end of the semester. The following represent the initial cut-offs for each letter grade.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>&gt;89.5%</td>
</tr>
<tr>
<td>B</td>
<td>&gt;79.5%</td>
</tr>
<tr>
<td>C</td>
<td>&gt;69.5%</td>
</tr>
<tr>
<td>D</td>
<td>&gt;59.5%</td>
</tr>
</tbody>
</table>

Note that there are no plus/minus grades in the calculus sequence. Following each midterm exam and the final exam, the course grade cut-offs may be curved downward; once lowered, the letter grade cut-offs will not increase.
The following is a breakdown for Math 126 showing the components of the course and how much each component is worth.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Homework</td>
<td>11%</td>
</tr>
<tr>
<td>WebAssign Assignments</td>
<td>5%</td>
</tr>
<tr>
<td>iClicker Lecture Participation</td>
<td>3%</td>
</tr>
<tr>
<td>Laboratory Section Grade</td>
<td>7%</td>
</tr>
<tr>
<td>Midterm Exam I</td>
<td>22%</td>
</tr>
<tr>
<td>Midterm Exam II</td>
<td>22%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
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**Exams**

MATH 126 will have two types of exam:

1. **Midterm Exams:** Paper exams that are hand graded by MATH 126 instructors and GTAs.
   - Midterm Exam 1  T  3/1  5:50 – 7:50pm  Chapters 5 and 6
   - Midterm Exam 2  T  4/19  5:50 – 7:50pm  Chapter 8

2. **Final Exam:** Cumulative - administered Thursday, May 12, 4:30-7:00pm.

**WebAssign**

WebAssign is an online homework system that will be used for part of the course homework. The version of the textbook available through the University Bookstore (in both hard copy and e-book formats) comes equipped with a WebAssign Key. It is important that you buy the version of the textbook with a WebAssign key; otherwise your WebAssign score will be null.

It is recommended that student’s intending to continue to Calculus 3 purchase a WebAssign key valid for the life of the textbook. Besides being required for warm-ups and homework, WebAssign includes additional guidance through study guides, video tutorials, and step-by-step tutorials for many problems.

**Lecture Participation**

The lectures held in WES and BUD will be using the iClicker system for nearly every meeting. Students earn 1 point per lecture for responding to at least one question and earn 0.5 point per correct answer. Lecture Participation will be graded on a 65 point scale; students who earn above 65 points keep the overage as bonus credit towards lecture participation.

**Laboratory Sections**

Laboratory sections meet twice per week with a graduate teaching assistant. In laboratory, students will review the most recent material, work through problems that supplement lecture material, and have an opportunity to ask questions and receive feedback in a small classroom environment.
Written homework will be collected and quizzes will be administered in laboratory sections. All graded material will be returned during laboratory sections; for all grade disputes, initially contact your GTA before contacting the course coordinator, Dr. Brennan.

**Make-ups**

There will be no make-ups for lecture participation; the only way to accrue points is to attend lecture with a functioning iClicker.

WebAssign Homework can be completed after the deadline for 25% credit; assignments can be extended automatically through WebAssign. All WebAssign Homework assignments close permanently at 8am of Stop Day.

**Exams and Laboratory Sections:** Students with a conflict with another course or verifiable excuse (temporary orders necessitating the absence of those in the US Armed Forces, sanctioned university activities, or a medical crisis of themselves, a relative, or friend) may be excused from being present. It is the responsibility of the student to initiate discussion with their instructor or graduate teaching assistant prior to the absence examination/test if possible.

**Religious Holidays:** Any student in this course who plans to observe a religious holiday which conflicts in any way with the course schedule or requirements should contact your instructor before the end of the third week of classes to discuss alternative accommodations.

**Math Help**

Every instructor and graduate teaching assistant is available for help outside the classroom, see individual webpages to find times and locations. The Mathematics Help Room can be found in 439 Anschutz Library and is staffed by helpful and competent mathematics graduate teaching assistants. Before searching for a private tutor, be sure to visit either your instructor or the Mathematics Help Room as they are free for KU students.

**Group Work and Tutors:** Students may discuss homework problem in groups, but each student is responsible for doing their own work and in turning in individual solutions. When a student works with a tutor, it is the responsibility of both the student and the tutor to ensure that it is the student who works to arrive at the solution of the problems. Tutors should not do student homework or provide solutions for assignments. No late homework assignment will be accepted. Members of the class are encouraged to study together, but EACH must write out their own solutions to the assigned problems. Copying of another person's homework is not allowed. **HOMEWORK IS A MAJOR PART OF THE LEARNING PROCESS IN MATHEMATICS,** and it is essential that students work their own problems, and do the homework on a regular basis.

**Withdrawal Dates**

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>2/8</td>
<td>Monday</td>
<td>Last day to drop and not have it appear on your transcript.</td>
</tr>
<tr>
<td>4/18</td>
<td>Monday</td>
<td>Last day to drop and your transcript will show a &quot;W.&quot;</td>
</tr>
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</table>
Keys to Success in MATH 126

- Come to lecture and your laboratory section prepared to learn and engage with the material.
- After each class, review the material and do the assigned and suggested homework on WebAssign and in the textbook.
- Prepare for the next class meeting:
  - Visit Blackboard to check the schedule and announcements.
  - Read the upcoming exercises in the textbook.
  - Do warm-up exercises on WebAssign.
- Find help! Take advantage of both your lecturer and your laboratory leader’s office hours.
- Study! Gather a group of friends and regularly work and study together.
- You will need a good background in algebra, trigonometry, and Calculus 1, Chapters 1-4 and Appendices A, B, and C serves as an excellent reference for reviewing prerequisite material and a list of practice problems.

Policy on Students with Special Needs

The KU Office of Disability Resources (DR) coordinates accommodations and services for all eligible students with disabilities. If you have a disability and wish to request accommodations and have not contacted DR, please do so as soon as possible. Their office is located in 22 Strong Hall; their phone number is 785-864-2620 (V/TTY). Information about their services can be found at http://www.disability.ku.edu/. Please also contact your instructor and graduate teaching assistant privately in regard to your needs in this course.

Policy on Academic Misconduct

According to University Senate Rules and Regulations, Section 6, Academic Misconduct is: “2.6.1 Academic misconduct by a student shall include, but not be limited to, disruption of classes; threatening an instructor or fellow student in an academic setting; giving or receiving of unauthorized aid on examinations or in the preparation of notebooks, themes, reports or other assignments; knowingly misrepresenting the source of any academic work; unauthorized changing of grades; unauthorized use of University approvals or forging of signatures; falsification of research results; plagiarizing of another’s work; violation of regulations or ethical codes for the treatment of human and animal subjects; or otherwise acting dishonestly in research.”

General Comments

Regular class attendance is important for success in this course. Even if you’ve taken a previous Calculus course, this course is likely to be taught from a more sophisticated perspective, and if you think this class will be review, you are probably mistaken.

You should expect to spend at least two hours studying outside of class for every hour spent in class. In contrast to most high school math classes, if you don’t understand the material being covered, you should NOT assume that your instructor will repeat material until you understand or master it. Ideally, you should ask questions at the time in class. Of course, you’ll also probably need to spend time thinking things through on your own, but if you’ve tried that and are still confused, make use of the Calculus Help Center and instructor office hours. Don’t wait! The material in this course is cumulative, so anything you don’t understand now is likely to keep giving you trouble as the semester goes on.
Intellectual Property

- Course materials prepared by the instructor, together with the content of all lectures and review sessions presented by the instructor are the property of the instructor.
- Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited.
- Permission to make such recordings may be granted by the instructor on a case-by-case basis, on the condition that the individual making the recording uses these recordings only as a study aid.
- Unless explicit permission is obtained from the instructor, recordings of lectures and review sessions may not be modified and must not be transferred or transmitted to any other person, whether or not that individual is enrolled in the course.