Math 122 – Calculus II
Fall 2015

**Lectures**

<table>
<thead>
<tr>
<th>Class</th>
<th>Instructor</th>
<th>Time</th>
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<tbody>
<tr>
<td>BUD 110</td>
<td>Weishi Liu</td>
<td>MWF 11:00 – 11:50am</td>
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<tr>
<td>BUD 130</td>
<td>Joseph Brennan</td>
<td>MWF 12:00 – 12:50pm</td>
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</tbody>
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wsliu@ku.edu

brennanj@ku.edu

**Textbook**

Calculus: Concepts & Contexts, 4E, by James Stewart

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

This syllabus contains all of the information about the course you will need to know. Further details can be found at the course webpage: [https://www.math.ku.edu/u/brennanj/Math122/](https://www.math.ku.edu/u/brennanj/Math122/)

**Prerequisite**

Open only for three hours credit to students with credit in both MATH 121 and MATH 116. Prerequisite: MATH 121, MATH 141, MATH 116, or MATH 120. Students who have completed MATH 116 need permission from the department to enroll in this class.

**Objectives and Course Contents**

The course covers Sequences and Series, Vector Functions, and Multivariable Calculus, covering most of Chapters 8-12 and Appendices B and H of the text. The precise sections to be covered are listed in the schedule found on the course webpage. 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 following is a breakdown for Math 122 showing the components of the course and how much each component is worth.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Laboratory Quizzes</td>
<td>5%</td>
</tr>
<tr>
<td>WebAssign Assignments</td>
<td>5%</td>
</tr>
<tr>
<td>Written Homework</td>
<td>10%</td>
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<tr>
<td>Midterm Exam I</td>
<td>25%</td>
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<tr>
<td>Midterm Exam II</td>
<td>25%</td>
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<tr>
<td>Final Exam</td>
<td>30%</td>
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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. Letter grade cut-offs will not increase.

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
<tr>
<td></td>
<td>90%</td>
<td>80%</td>
<td>70%</td>
<td>60%</td>
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**Exams**

MATH 122 will have two types of exam:

1. **Midterm Exams**: Paper exams that are hand graded by MATH 122 instructors and GTAs.
   
   Midterm 1  T  September 29  5:50 – 7:50pm  Tentative: Chapter 8 & Appendices B/H
   
   Midterm 2  T  November 10  5:50 – 7:50pm  Tentative: Chapters 9, 10, and 11.1-11.5

2. **Final Exam**: Cumulative, Administered Thursday, December 17 4:30-7:00pm.

**WebAssign Homework**

WebAssign is an online homework system that will be used for class warm-ups and homework. The version of the text 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. Besides being required for assignments, WebAssign includes additional guidance through study guides, video tutorials, and step-by-step tutorials for many computational problems.

**Laboratory Sections: Quizzes and Written Homework**

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. Typically, for sections meeting MW and TR written homework will be collected in the first meeting of the week and a quiz will be administered in the second meeting while the WF sections will have both homework collected and quizzes administered in the first meeting.

For each student, only the 10 best quiz grades will be used for the final grade, the remaining quiz grades will be dropped. Written homework will be collected **only** in the laboratory class; there is no late homework. Students with an **excused absence** can turn in written homework during office hours. An excused absence means an absence supported by official documents. If you are an athlete and have to be absent because of games, please show me a copy of your game schedule signed by your advisor before the day you are absent. **Make-ups** If you are sick and have to be absent, please show me your doctor’s notes. It should state something like the sickness keeps you from finishing the homework on time and how many days extension is good enough for you. If you need to go to a conference, a very important concert, a wedding or maybe a funeral, please show me something that indicates you are there.

**Exams:** 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 at the start of the semester 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's office hours 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.

Keys to Success in MATH 122

- 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 by reading and taking notes on the upcoming section in the textbook.
- 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 and trigonometry, Chapter 1 and Appendices A, B, and C serves an excellent reference for reviewing prerequisite material. Review Calculus I material by reading and working problems found in Chapters 2-7.

Withdrawal Dates

September 14  Monday Last day to drop and not have it appear on your transcript.
November 18  Wednesday Last day to drop and your transcript will show a "W."

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're probably mistaken.

You should expect to spend 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 would repeat material until you get 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 Mathematics Help Room 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.