

## MA 114 – Calculus II, Spring 2014

### Course Homepage:

The home page for this course is at

<http://www.ms.uky.edu/~ma114>

It is designed to help you and to provide information for the course. This syllabus, the course calendar, all handouts and solutions to exams will be posted on this web site.



### Class Schedule:

- Lectures: MWF, time and place according to your section (also see web page)
- Recitations: Time and place according to your section (also see web page)
- **Exams:** There are three uniform midterm exams and one final exam. The final exam will be cumulative though with an emphasis on the material covered since the third exam.

Exam rooms will be announced later.

Exam 1: Tuesday, February 11, 5:30 – 7:00 pm

Exam 2: Tuesday, March 11, 5:30 – 7:00 pm

Exam 3: Tuesday, April 15, 5:30 – 7:00 pm

Final exam: Wednesday, May 07, 8:30 - 10:30 pm

For alternate exam procedures, see the section on Policies.



### Textbook:

*Calculus* (2nd edition), by Jon Rogawski, ISBN 978-1-4641-3302-2 (paperback published for UK), 978-1-4292-0838-3 (hardback)

### Recitation Worksheets:

These worksheets are required for the course. They can be downloaded from the **Recitation Worksheets** link on the course home page

<http://www.ms.uky.edu/~ma114>.



### MA 194:

In addition to the 4 hours of credit for MA 114, the department offers one additional hour of credit for MA 194 on a pass/fail basis.

**Please note: If you fail MA 114 then you automatically fail MA194.**

You will pass MA 194 if you pass MA114 **and** participate in all but at most three recitation sessions. You are allowed no more than three (3) unexcused absences. Any unexcused absence is non-participation. You are responsible for bringing the recitation worksheets to recitation. Failure to bring the worksheets may be considered as non- participation in the session.

Your section number for MA 194 must be the same as your section number for MA 114. If you drop or change sections of MA 114, make sure to also drop or change sections of MA 194.

**You are responsible for taking care of this change of sections. If you do not change sections of MA 194 to match your section of MA 114, you risk receiving a failing grade for MA 194.**



## Grading

It is possible to earn up to 500 points in the course based on the following activities:

3 exams	300 (100 points each)
Final exam	100
Homework and attendance	100
<b>Total</b>	<b>500</b>

Each exam will be graded by teams of professors and teaching assistants. These grading teams will assign a numerical score from zero (0) to one hundred (100) to each paper.

**Mid-term Grades:** Mid-term grades will be posted in myUK by the deadline established in the Academic Calendar (<http://www.uky.edu/Registrar/AcademicCalendar.htm>)

**Unless your instructor's class syllabus has an alternate allocation** the 100 points for homework and attendance are computed based on the following:

Web homework	120 points
Quizzes in recitation classes	40 points
Attendance of the lectures	40 points
<b>Total divided by 2</b>	<b>100 points</b>

Your course grade will be based on the number of points you earn according to the following scheme:

Total earned course points (out of 500)	450-500	400-449	350-399	300-349	0-299
<b>Final course grade</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>



## Homework and Quizzes:

### 1. Web-based Homework:

The bulk of the homework will be completed using the **web-based homework** system **WeBWork**, that grades your solutions and records your scores. You find it at <https://courses1.webwork.maa.org/webwork2/uky-ma114/> (see below for administrative details on using this website). Each homework set comes as a personal version. When entering answers to the personal version, the system will tell you whether your answer is correct or not and will, in the case there are multiple components of the answer, indicate the first part of the answer that is incorrect. **Only correct solutions to your personal version of the homework assignment give you credit!** Notice that for each web-based homework problem you may resubmit your answer up to fifteen (15) times before midnight of the due date!

The homework is graded by problem. You do not have to resubmit the entire set each time you work a problem.

You can, at any time, find your current score WeBWork by clicking Grades in the Main Menu on the left of most pages.

There is a button, Preview Answers, on each problem page which will allow you to see your answer before you submit it. There is also a button, Check Answers, for

with which you can check your answers. You will find a button, Email instructor, that causes an email to be sent to your TA and your instructor which mainly serves to tell them that you have a question.

Keep in mind then it is not cheating to give or receive help on web homework.

- a) Start to work on an assignment as soon as the corresponding material is discussed in class.
- b) Print out copies of your personal version (it is free in the Mathskeller, the student staff will show you how to do so) and put them in a notebook.
- c) Get together with classmates to work on the problems via the printouts. Write down the solutions in your notebook and only thereafter enter your solutions on the webpage. Check your answers by entering them into the system, and, if necessary, rework the problem.
- d) Work on the problems of your personal version and remember: only correct solutions to your personal version will earn you credit.
- e) Bring the notebook with you when you go to office hours.
- f) You are encouraged to discuss homework problems and the course material with each other. However, when it comes time for you to write up or enter the solutions, you are expected to do this completely on your own. It would be the best for your understanding if you put aside your notes from the discussions with your classmates and wrote up the solutions entirely from scratch.
- g) If necessary, you may take your version of the homework set with you to recitation and seek help.
- h) If you feel you have worked a problem correctly and WeBWorK marks it incorrect, please contact your teaching assistant or professor by e-mail.

## 2. Quizzes:

There are ten quizzes given at Thursday's recitation classes, starting from the second week, except the midterm weeks and the second to the last week and the last week. Each quiz consists of one problem and takes up to 15 minute. The graded quiz will be returned in next Tuesday's recitation class.



## Late Homework:

No late submissions of web homework will be accepted. If an emergency or illness takes you away from school, please discuss your situation with your professor and ask to be excused from an assignment, if appropriate. If you have a scheduled absence (travel or authorized university absence) you must still submit the web homework by the deadline. Please understand that the computer is a harsh task-master. When it says it is midnight, it is midnight.



## Attendance:

You are expected and strongly advised to attend all lectures and recitations. **Unless your instructor's syllabus treats it differently** the following is how attendance will be counted toward your grade.

Instructors will take attendance beginning **January 22**. Your attendance score is based on the percentage of lectures you attend. You will receive full credit (40 points, see above) if you have at most 3 unexcused absences.

**Recall (see above) that participation in recitation is required for a**

**passing grade for MA 194;** it is strongly recommended to everybody. Beyond unexcused absence, excessive tardiness to or disruptive behavior in a recitation session will be treated as non-participation in the session. Recitations are the place where you have a chance to actively engage, work problems under guidance, seek assistance, and communicate with your peers and the instructor.

**Excused Absences:** Students need to notify the professor of absences prior to class when possible. **Senate Rule 5.2.4.2** defines the following as acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family member, (c) University-related trips, (d) major religious holidays, and (e) other circumstances found to fit “reasonable cause for nonattendance” by the professor.

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day in the semester to add a class. Information regarding dates of major religious holidays may be obtained through the religious liaison, Mr. Jake Karnes (859-257-2754).

Students are expected to withdraw from the class if more than 20% of the classes scheduled for the semester are missed (excused or unexcused) per university policy.

**Verification of Absences:** Students may be asked to verify their absences in order for them to be considered excused. *Senate Rule 5.2.4.2* states that faculty have the right to request “appropriate verification” when students claim an excused absence because of illness or death in the family. Appropriate notification of absences due to university-related trips is required prior to the absence.



### **Calculators and Laptop Computers:**

Students may use a graphing calculator on exams and homework. The use of machines with symbolic manipulation capabilities is not allowed during examinations. You may not use any machine (carbon-based life form or silicon-based) that has symbolic manipulation capabilities of any sort on any exam. This precludes the use of TI-89, TI-Nspire CAS, HP 48, TI 92, Voyage 200, Casio Classpad or laptop computer. Also, you may not use your cell phone, iPhone, or Blackberry on any exam – even if you forget your regular calculator. If it runs Windows, UNIX, Linux, Ubuntu, MacOS, PalmOS, or any derivatives or associates thereof, you cannot use it on the exams. Please talk to your lecturer if you have any questions as to whether a particular machine may be used on a test. We may clear the memory of calculators before or during an examination. **Except when explicitly permitted by your instructor**, computers (including laptops, notebooks, iPads, *etc.*) may not be used during lectures.



### **Using the web homework system WeBWork:**

Please refer to the document *Introduction to WeBWork for Students* for full instructions. In order to access WeBWork do the following steps (Students who registered near the beginning of the semester should wait 24 hours after they registered for MA 114):

- Use a web browser Internet Explorer 8.0, Firefox, Chrome, Safari or other browser.
- Go to <https://courses1.webwork.maa.org/webwork2/uky-ma114/>

- Log in using your campus active directory account login (LinkBlue) id in ALL CAPS. Your initial password is your UKID # without the leading 9.
- Follow the instructions in the *Introduction to WeBWork* to reset your password.



### **Study Advice and Getting Help:**

Math is not a spectator sport. It is essentially impossible to passively learn mathematics. It must be actively learned. You have to work the homework problems to get the practice you need to understand the concepts. Remember when you first learned your favorite video game. You tried something, it didn't work, you learned from it and you tried again. The important thing is that you tried. You will not learn the material in this course by just listening to the lectures, and thinking to yourself – "Yes, I understand that". You must work the problems and go through the difficulties yourself before you will begin to learn. The instructor's task is that of an assistant to help you learn as much of the material as you desire.

Form good study skills from the start! Come to class. Read the text prior to the lecture where it will be covered. Yes, it is not a novel, but you can see what the author is trying to connect and see where you do not understand something so that you can listen more carefully in lecture. Take notes and **do the homework**. Find classmates with whom to study. Do not fall behind. It is very difficult to catch up in a math class after falling behind. **Use old exams of MA 114 to take a practice test by yourself in an exam-like situation. Compare your solutions with those provided by the answer key.** If you are having trouble, then seek help without delay.

If you are having trouble with a homework problem, you can use the feedback system in WeBWork. Try to provide as much information as possible in your request. The system shows your instructor the problem on which you are working.

If you need more help than what can be provided by the online help, you should take one or more of the following steps.

- Talk to your instructors before or after class or send them an email, if necessary. Let them know what problems you are having, if any. They will be happy to help!
- Go to the office hours of your instructors.
- You can also seek help in the **Mathskeller** that is located in room CB 063 in the basement of the classroom building. Many instructors and teaching assistants from the Department of Mathematics will hold office hours in the Mathskeller. In addition, limited drop-in tutoring is available. You can seek help from any of the instructors or teaching assistants — not just your own. The Mathskeller is open from 9 am to 5 pm Monday through Friday (except academic holidays) during the semester. Additional information is available at [www.mathskeller.org](http://www.mathskeller.org).
- Furthermore, you can seek help in **The Study** located on the 3rd floor of the Commons, South Campus. Academic Enhancement provides drop-in peer tutoring by experienced undergraduate students who have successfully navigated the courses for which they tutor. A regular schedule of all tutoring is available on The Study's website [www.uky.edu/ugs/study](http://www.uky.edu/ugs/study). You can also call 257-1356.

You can find more detailed suggestions of how to study for the course on the handout "Some Suggestions on How to Study Mathematics", which is at the link **Study Advice and Help** on the left side of the course home page.



**Accommodations due to disability:** If you have a documented disability that

requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address: jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.



### **Policies:**

1. Attend lectures and recitations regularly. Be on time and remain until dismissed. Do not leave in the middle of class. Instructors have the right to deduct attendance points for coming late or leaving early.  
If you cannot come to lecture or recitation and would like to request an excused absence let the instructor know about it next time in class (see also the section on attendance).
2. Unless otherwise instructed by your professor, classes are cell phone-free zones! Cell phones may not be used during class. In particular, texting, "tweeting", *etc.* are forbidden. Unless specifically permitted by your instructor laptops must be off and out of sight for the entire class period (see also the section on calculators and laptop computers). Instructors have the right to deduct attendance points for using cell phones or laptops during class. The same applies to reading newspapers or other activities unrelated to the course.
3. In order to be fair to all students, dates for exams and homework assignments are firm. It is very important to take each exam on schedule. Missed work may be made up only due to illness with medical documentation or for other unusual (documented) circumstances (see also the section on late homework). If you have a university excused absence or a university-scheduled class conflict with uniform examinations please contact your lecturer as soon as possible, **but at least 10 days before the exam**, so that an alternate exam can be arranged for you. No alternate exam will be given more than 8 days after the common exam.
4. *Academic Honesty*: Students are encouraged to work together to understand a problem and to develop a solution. However, the solution you submit for credit must be your own work. Copying on exams and usage of books, notes, or communication devices during examinations is not allowed. Cheating or plagiarism is a serious offense, and it will not be tolerated. Students are responsible for knowing the University policy on cheating.
5. To earn top grade on exam problems it is not enough to have the correct answer, you must also show the correct reasoning.
6. Classes do meet as usual on the days after a midterm exam. Attendance rules apply as usual.