

Abbreviated Syllabus
Mathematics 133 — Calculus II
Fall, 2012

Lecture: MWF 12:40–1:30 in A132 Wells Hall.

Recitation: Tuesdays 12:40–1:30 in A128 Wells Hall.

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Course Description: Applications of the integral and methods of integration. Improper integrals. Polar coordinates and parametric curves. Sequences and series. Power series.

Recitation Section: In addition to providing you with an opportunity to ask questions about homework problems and the material covered in lecture, the TA may also introduce material. The hour exams and quizzes are given during the recitation section.

Attendance: You are expected to attend all class and recitation section meetings. If you must miss a class, plan to get notes for that day from a classmate. Missing an Exam without an advance valid excuse presented to the Instructor will result in a score of 0 pts. No makeups are given. Commercial travel schedules are not excuses. To be eligible for a Makeup Final Exam, you must have either (a) another final scheduled during the time of the Math 133 uniform final exam, or (b) have two other final exams scheduled that day. If you qualify, you must register for the Makeup Final Exam in C212 Wells Hall at the appropriate time.

Office Hours: Please bring a copy of your notes, quizzes, solutions to completed homework problems and attempted solutions to any questions you are having trouble with to office hours.

Email: Please feel free to email me regarding any questions that you have about the course. The Mathematics Learning Center is probably the most reliable source for immediate help with homework problems after 5PM.

Course Schedule: math.msu.edu/~gpearl/133/schedule.html

Web page: The full syllabus and other information will be posted at

math.msu.edu/~gpearl/133.html

Please consult this link regularly during the term for updates to the syllabus and schedule.

Homework: The homework for this course will be done using WeBWork. Please consult the course web page for the schedule of assignments and additional information. In particular, in order to make office hours effective, I require that you keep a *neatly written record* of your final solutions to the WebWork problems.

Math Learning Center: This is a friendly, supportive atmosphere to get help on homework from other students and from experienced TAs; you can also use it as a place to work with other students in your class. Consult

www.math.msu.edu/~mlc/

for hours of operation and other information.

Quiz: There will be regular quizzes given during the recitation section. There will be no make up quizzes: If you present a valid excuse, you can make arrangements to take the quiz and have it corrected by the TA. Your grade however will be computed by giving the remaining quizzes extra weight.

Practice Final Exam: If you complete one of the following practice final exams

<http://www.mth.msu.edu/CurrentStudents/SampleFinals/Default.aspx>

by November 30'th, I will drop your lowest quiz and homework score.

Gateway Exams: These are individualized, computer generated, no partial credit tests, with a near perfect score required for passing. Each student gets multiple opportunities to pass each exam. The first exam covers the simple methods of integration you learned in Math 132. The second exam covers the integration methods you learn in this course. Consult the course web page for schedules and other important information.

Hour Exams: This class will have 4 exams and a common final. There are no make up exams. If you have a valid excuse, I will give you a copy of the exam, and correct it. Your grade however will be based on giving the remaining exams extra weight.

Final Exam: Monday, December 10, 10:00 am-12:00 pm. In order to pass the class you must take the final exam.

Evaluation: Your raw score for the course will be computed as follows:

- 4% Gateway Exams (2% each).
- 12% WeBWork
- 12% Quizzes
- 48% Best 3 of 4 Exams (16% each).
- 24% Common Final

Key to Success: Do *ALL* the homework problems — and more for good measure. Mathematics is learned by doing problems. In the end (by exam time!) you should know how to approach each assigned homework problem. More advise:

In Class: Arrive in class on time. Sit in the front half of the room. *Take good notes*, trying to anticipate the next step as you write.

Homework: Start working on the homework problems the day that they are assigned. Work out all homework problems.

When you get stuck, look back through that section in the textbook or your class notes and find a worked-out example similar to the one you're stuck on. After that, try (i) asking a friend, (ii) going to the Math Learning Center or (iii) going to office hours.

Reading the text: Before coming to each class, skim the section so you enter class with knowing what material will be covered. After class, read your class notes, then start doing HW problems. When you get stuck, look back and read examples from the section. After doing some (say, half) of the problems, read the section throughly. Then finish the problems.

Exams: Get a good night's sleep before each exam — staying up studying is not productive. If you have done all the homework problems, you will need only a few hours to review your notes. Concentrate on the problems that gave you the most trouble, rereading the text for those topics.

Calculators: Calculators are **not** required for this class, and actually will seldom be useful. Calculators and other electronic devices will not be permitted during exams and quizzes. Exam questions will not involve any complicated arithmetic calculations and should not require calculators *at all*. On homework and exams, always leave your answers in a form like $11\sqrt{2}$ or $\pi/5$; there is no point to converting these into decimals.

Academic Honesty: All students are expected to adhere to the University's policy concerning academic integrity. It is covered in the Spartan Life booklet under General Student Regulations. According to the handbook, no student shall *allow any examination or assignment to be completed for oneself, in part or in total, by another without proper authorization*. Please consult the handbook,

<http://splife.studentlife.msu.edu/regulations/general-student-regulations>

for more information. In particular, although you are welcome to use computer algebra systems such as Mathematica, Maple or Wolfram Alpha in studying and working supplementary homework problems, you are forbidden to use such programs in completing the WebWork Assignments.