Syllabus for Math 102, Rice University

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Instructor: Morgan Weiler

Fall 2019

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class meetings: Sewall 307, MWF 10-10:50 AM
office: Herman Brown Hall 408
office hours: M 1:30-2:30 PM, Th 1-3 PM, or by appointment
email: morgan.weiler@rice.edu
canvas: Math 102 S04 F19
webwork: Math102Fall19Weiler
webpage: `math.rice.edu/~mw79`
textbook: OpenStax Calculus Vol. 2, Chapters 1, 3, 5, 6, 7 `https://openstax.org/details/books/calculus-volume-2`

Course objectives: In this course you will learn the techniques of single-variable integration. We will then discuss sequences and series, a topic which culminates in power series, specifically Taylor and Fourier series, which are important approximation tools for functions. Finally, we will focus on the role of single-variable integration in two-dimensional settings, including parameterized curves, polar coordinates, and complex numbers.

Expectations and the Honor Code: Following the policies laid out in this syllabus is part of your responsibility under the Rice Honor Code.

I expect you to attend and actively participate in class and to be on time, unless you have cleared an absence with me beforehand (see "Accommodations," below).

In order to be successful in this class, you should work on the assigned homework in a timely manner. If you get stuck, keep grappling with the problem for a while and come to understand what is confusing you: usually, if you are able to precisely articulate the confusion, you're most of the way to the solution! If that does not work, come to my office hours or see the math TAs. (Email is not the best way to discuss technical questions about the math content of the course.)

Let me know if you are struggling, academically or otherwise, with anything which could greatly impact your participation in the class, as soon as possible.

Components of your Grade: Your grade will be computed via the following formula:

$$23\%(\text{homework}) + 7\%(\text{participation}) + 70\%(\text{exams})$$

The exam weighting will be 20:20:30 or 20:15:35 or 15:20:35 (MT1:MT2:F), whichever is most beneficial to the student. When computing final course grades, a students exam scores are normalized against scores of all students in Math 102 this semester, not just those in this section.

Homework: Homework will consist of both WebWork and paper homework. You will submit paper homework on Fridays in class at 10 AM, except there will be no paper homework due on the first Friday of term, and there will be paper homework due on the Wednesday before Thanksgiving.

Log in to the WebWork course "Math102Fall19Weiler" at `http://webwork.math.rice.edu`. Use your Rice NetID as your login, with your Student ID as your initial password. You will have WebWork due most Mondays and some Wednesdays, and the first Friday of term, at 10 AM.

No late homework will be accepted, barring a documented serious illness or other emergency. However, the lowest-scoring WebWork and written homework assignments will both be dropped.

It is your duty under the Honor Code to write up your solutions (or submit them to WebWork) on your own. Collaboration with others is encouraged – discussing mathematics is one of the best ways to test and cement your understanding! However, you must first give serious thought to the problems on your own before discussing them with others, and after your collaboration, you must make sure you can re-create by yourself all of the necessary work to arrive at any conclusion you submit. You should never look up solutions to problems online or use software (including calculator or computer functions beyond elementary-school arithmetic), unless instructed to do so.

Participation: 2% of your grade will be earned by meaningful participation in office hours, at least once before the 22nd class period (Friday, October 18) and at least once after. Examples are bringing in a question about the homework or course material, or asking for resources or advice for progressing in areas of math beyond the course which may interest you.

The remaining 5% of your grade is based on general participation in class, including punctuality, engagement, and treating all others involved in this course (me, Rice staff, TAs, your fellow students, etc.) with respect.

Exams: There will be midterm exams on **Tuesday, October 1** and **Thursday, November 14** from **7-9 PM**. *If you have a conflict with either of these dates, you are required to let me know by the end of the second week of class* (see "Accommodations," below). Otherwise, only documented medical emergencies will be accepted as an excuse for missing an exam.

The time and day for the Final Exam will be determined by the Registrars office and is not currently available. It is the policy of the Mathematics Department that no final may be given early to accommodate student travel plans. If you make travel plans that later turn out to conflict with the scheduled exam, then it is your responsibility to either reschedule your travel plans or take a zero on the final.

Use of electronics (including calculators, phones, computers, etc.), notes, or assistance from any other person is strictly prohibited during exams.

Accommodations: If you have a documented disability that may affect academic performance, you should, *by the end of the second week of classes or as soon as the disability becomes apparent*: 1) make sure this documentation is on file with Disability Resource Center (Allen Center, Room 111 / `adarice@rice.edu` / x5841) to determine the accommodations you need; and 2) meet with me to discuss your accommodation needs.

It is your responsibility to provide me with advance notice of dates on which you must be absent due, for reasons including but not limited to, religious holidays or athletic responsibilities. In particular, if you are unable to be present for any exam date, please notify me *by the end of the second week of classes or as soon as you are aware of the absence.*

Disclaimer: This syllabus is subject to change, though I will do my best to avoid this. Students will be notified of any such changes in a timely manner.