Cleveland State University — Department of Mathematics

Syllabus for MTH182 — Calculus 2

1 Course Information

- **Credit Hours**: 4. This course counts toward the Mathematics/QL general education requirement.
- **Prerequisites**: Grade of C or better in MTH 181 (Calculus I) or suitable placement-test score.
- **Text**: *Calculus Early Transcendentals, second edition by Jon Rogawski*. Single variable and electronic versions of the text are available.

- **Section Information**:

<table>
<thead>
<tr>
<th>Section</th>
<th>Instructor</th>
<th>Meeting Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Stone</td>
<td>8:05-8:55am MTWF</td>
<td>MC 330</td>
</tr>
<tr>
<td>2</td>
<td>Martins</td>
<td>9:10-10:00am MTWF</td>
<td>MC 440</td>
</tr>
<tr>
<td>3</td>
<td>Rodrigues</td>
<td>10:15-11:05am MTWF</td>
<td>BU 209</td>
</tr>
<tr>
<td>4</td>
<td>Soprunov</td>
<td>10:15-11:05am MTWF</td>
<td>BU 106</td>
</tr>
<tr>
<td>5</td>
<td>Lupton</td>
<td>1:30-2:20pm MTWF</td>
<td>BU 108</td>
</tr>
<tr>
<td>50</td>
<td>Feister</td>
<td>4:00-5:50pm MW</td>
<td>LB 242</td>
</tr>
</tbody>
</table>

- **Instructor Information**:

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Email</th>
<th>Office</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feister</td>
<td><a href="mailto:b.feister@csuohio.edu">b.feister@csuohio.edu</a></td>
<td>RT 1539</td>
<td>687-4652</td>
</tr>
<tr>
<td>Lupton</td>
<td><a href="mailto:g.lupton@csuohio.edu">g.lupton@csuohio.edu</a></td>
<td>RT 1556</td>
<td>687-4714</td>
</tr>
<tr>
<td>Martins</td>
<td><a href="mailto:l.martins@csuohio.edu">l.martins@csuohio.edu</a></td>
<td>RT 1533</td>
<td>687-4683</td>
</tr>
<tr>
<td>Rodrigues</td>
<td><a href="mailto:i.rodrigues@csuohio.edu">i.rodrigues@csuohio.edu</a></td>
<td>RT 1535</td>
<td>523-7153</td>
</tr>
<tr>
<td>Soprunov</td>
<td><a href="mailto:i.soprunov@csuohio.edu">i.soprunov@csuohio.edu</a></td>
<td>RT 1536</td>
<td>687-4707</td>
</tr>
<tr>
<td>Stone</td>
<td><a href="mailto:j.c.stone@csuohio.edu">j.c.stone@csuohio.edu</a></td>
<td>MC 228</td>
<td>687-4701</td>
</tr>
</tbody>
</table>

2 Learning Outcomes

The successful MTH182 student should be able to apply and evaluate definite and indefinite integrals; analyze and evaluate limits; understand the definition of improper integrals and compute their values; determine the convergence or divergence of infinite sequences and series; find the Taylor polynomial of order \( n \) at a specified center for a function, with error term; identify, differentiate and integrate a power series for a function; analyze curves given in parametric form and in polar coordinates. For this course we assume that students are proficient in Calculus I, as well as Algebra and Trigonometry. Your instructor may review some topics, but students are expected to seek help by themselves if they feel the need to review Calculus I or Algebra and Trigonometry. Please refer to the weekly schedule at the end of this syllabus for a detailed list of topics.

Your instructor will distribute a day-by-day schedule specifying the topics to be covered in the course, as well as his/her office hours.

The CSU Calculus Team.
3 Learning Resources

- **Blackboard Learn (BBLearn):** This course makes intensive use of the CSU online course management system: https://bblearn.csuohio.edu/MACAuth/login.jsp. Visit the site frequently for course information, discussion boards, supplemental material, useful links, and other resources.

- **Supplemental Instruction:** Some sections of this course may be offered with Supplemental Instruction (SI), in which case your section will be assigned an SI Leader. The SI leader is a fellow student that will provide help and support in various aspects of learning. SI leaders are available in class and also hold sessions for review and help with homework. More details concerning your SI leader schedule will be given by your instructor, and will also be available in BBLearn. Even if your section has not been assigned a SI Leader, you are encouraged to attend SI sessions of other sections.

- **Math Learning Center:** Free tutoring is available at the Math Learning Center, MC230. Tutors are highly competent graduate students with solid knowledge of calculus and experience in various aspects of learning and teaching. Learning Center schedules will be announced by your instructor and posted in BBLearn.

- **Tutoring and Academic Success Center (TASC):** Provides general academic help, and runs useful workshops about time management, test taking skills, study skills, etc. Located at MC233, phone 687-2012. TASC does not provide tutoring for Calculus.

4 Course Work and Assessment

4.1 Homework

*Homework accounts for 20% of the overall score.*

This course uses the WeBWorK online homework system, accessible through the following link:

http://webworks2.csuohio.edu/webwork2/MTH182-Spring15/

Please bookmark the homework link for easy access. Use Firefox, Safari or Chrome to access WeBWorK. *Internet Explorer is not recommended,* since it is slower and does not display some problems correctly.

There will be no extensions for homework assignments unless a student has a extended absence from class that can be documented. Please do not wait until the last day to start the homework. Not being able to access the system will not be accepted as a valid excuse for late homework.

Each homework set has a different number of problems, but all problems have the same overall weight. At the end of the course, the total homework score is scaled to a score out of 100 points.

4.2 Quizzes

*Quizzes account for 10% of the overall score.*

Quizzes are short tests or activities designed to provide an assessment on your understanding of material being currently learned and/or enhance learning. Your instructor will provide more information about format, dates and content of quizzes. The total cumulative quiz score is 100 points.
4.3 Tests

Tests account for 45% of the overall score.

There will be four unit tests, which are cumulative in-class tests without notes and books. Each test is graded on a scale of 100 points. Test dates for each section are:

<table>
<thead>
<tr>
<th>Test</th>
<th>Date</th>
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<tbody>
<tr>
<td>1</td>
<td>February 2</td>
</tr>
<tr>
<td>2</td>
<td>February 23</td>
</tr>
<tr>
<td>3</td>
<td>March 23</td>
</tr>
<tr>
<td>4</td>
<td>April 13</td>
</tr>
</tbody>
</table>

The lowest test score is replaced by the final exam score, unless it is lower than all test scores.

Make-up Policy: Make-ups can be given, at the instructor's discretion, for missed tests that have a valid reason, such as a medical emergency involving the student or immediate family members.

In all cases, the student must present documentation justifying the absence, and provide contact information for the person providing the documentation. The following reasons will not be accepted as excuses for taking a make-up:

- Travel, unless it is related to a medical emergency.
- Work commitments. If you have a work-related schedule conflict, you must arrange with your employer to receive a dispensation.
- Medical conditions for which you cannot provide documentation. If you didn't visit a doctor office or other medical facility, you can obtain a note from the nurse’s office at the University.
- Having another test in the same day.
- Not being able to prepare for the test.

Unless an extended absence is justified, make-ups have to be taken within three days of the test date, excluding days the university is closed. If you know in advance that you will be unavailable at a particular date, please contact your instructor as soon as possible.

Calculator Policy: Use of a graphing calculator is an integral part of the course. All students are required to have one, and know how to operate it. The department currently supports the TI-84+. It makes this model available to instructors, and students can expect departmental help in learning to use it. Calculators with equivalent capabilities, such as the TI-83 and TI-84, are also accepted. Use of the calculator is allowed on tests and quizzes, unless otherwise stated in this syllabus or by your instructor.

Calculators with symbolic manipulation capacity, such as the TI-89 series, TI-92 series, Voyage 200, and TI-Nspire CAS are prohibited on exams. Use of a cell phone or any other communication device use is prohibited during exams. Students that own such calculators will be provided with a TI84+ for tests. Violation of this policy will result in a score of 0 (zero) in the exam where the violation took place.
4.4 Final

The final exam accounts for 25% of the overall score.

The final is a comprehensive exam without notes and books, graded on a scale of 100 points. This course has a common final, held on:

Sections 1, 2, 3, 4 and 5: Thursday, May 7, 10:15am – 12:15pm
Section 50: Wednesday, May 6, 4pm – 6pm

Notice that the final is not held at the regular time and location indicated on the University web site. The location of the test will be announced in class.

Make-ups will not be given to students that do not attend to the final at the time and place indicated above. Use of a graphing calculator is allowed in the final, according to the same policy stated for unit tests.

4.5 Grading Scale

A student’s total score is computed according to the following formula:

\[
\text{Total score} = (\text{Final Exam Score}) \times 0.25 \\
+ (\text{Average test score}) \times 0.45 \\
+ (\text{Homework score}) \times 0.20 \\
+ (\text{Quiz score}) \times 0.10
\]

Note: The lowest test score is replaced by the final exam score, unless it is lower than all test scores. The total score is then rounded up to the next integer, yielding a value of up to 100 points. The student’s letter grade is computed according to the table:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Minimum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93%</td>
</tr>
<tr>
<td>A-</td>
<td>90%</td>
</tr>
<tr>
<td>B+</td>
<td>86%</td>
</tr>
<tr>
<td>B</td>
<td>83%</td>
</tr>
<tr>
<td>B-</td>
<td>80%</td>
</tr>
<tr>
<td>C+</td>
<td>75%</td>
</tr>
<tr>
<td>C</td>
<td>70%</td>
</tr>
<tr>
<td>D</td>
<td>60%</td>
</tr>
</tbody>
</table>

A student with a total score of less than 60% will get an F in the course.

5 General Policies

5.1 Grade reporting and disputes

All student scores will be posted in Blackboard as course work and tests are done. Students are responsible for checking their own progress, and reporting to the instructor any discrepancies as soon as they
are noticed. It is also strongly suggested that you retain all graded work from the course until the end of the semester and grades are posted. This way if a dispute arises concerning a recorded grade and the actual grade, we have the documentation needed to rectify the situation. Additionally, graded works make for excellent study materials for upcoming exams.

5.2 Class Conduct

Class attendance and participation is essential for success in this course. Please come to class prepared, and take an active role in class discussions and activities.

Please bring a graphing calculator to each class. Cell phones should be turned off or placed on vibrate. Text messaging during class is not appropriate and grounds for removal from class. During computer lab sessions, checking email and surfing the web is inappropriate when the instructor is talking and again grounds for removal from the class. Other serious disruptions are grounds for removal as well.

5.3 Withdrawals

Last day to withdraw is **March 27**. Withdrawing from the course may put you in violation of the federally mandated standards for academic progress (SAP) that you must maintain to be eligible for financial aid. Read the link on the course website for information about the implications of withdrawing from the course for your financial aid or visit Campus 411.

5.4 Scholastic Dishonesty

Cheating and/or plagiarism will not be tolerated. “Cheating” includes copying or receiving help from another student on quizzes, tests or exams, as well as allowing another student to copy from your work. Merely copying another student’s homework, or allowing someone else to do your homework for you, is also considered cheating. If cheating occurs in a quiz or unit test, the student will receive a grade of 0 for that component of the course. If cheating occurs in the final exam, the student will receive a grade of F in the course. Any cheating activity may be reported for further action. Information regarding the official CSU policy regarding cheating and plagiarism can be found in the CSU Code of Student Conduct at [https://www.csuohio.edu/sites/default/files/StudentCodeOfConduct.pdf](https://www.csuohio.edu/sites/default/files/StudentCodeOfConduct.pdf)

5.5 Disabilities Statement

Educational access is the provision of classroom accommodations, auxiliary aids and services to ensure equal educational opportunities for all students regardless of their disability. Any student who feels he or she may need an accommodation based on the impact of a disability should contact the Office of Disability Services at (216) 687-2015. The Office is located in MC 147. Accommodations need to be requested in advance and will not be granted retroactively.

5.6 Disclaimer

The course coordinator, in consultation with instructors, reserves the right to modify these procedures as the course progresses, and to change the assignment schedule from the outline given. Any changes will be announced in class with adequate advance notice. You are responsible for being aware of any changes
discussed in class and/or in the BBLearn course site. This includes exam days, homework due dates and changes in policy.