Information for Students in Math10550, Fall 2017

See the following website for more details: http://www3.nd.edu/~apilking/Math10550/

Instructors: Contact Information:

<table>
<thead>
<tr>
<th>Section</th>
<th>Instructor</th>
<th>Office</th>
<th>Tel. Number</th>
<th>e-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sections 1/4:</td>
<td>Daniel Turetsky,</td>
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<tr>
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<tr>
<td>Section 6:</td>
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</tr>
</tbody>
</table>

Teaching Assistants: Contact Information:

<table>
<thead>
<tr>
<th>Section</th>
<th>Teaching Assistant</th>
<th>Office</th>
<th>Tel. Number</th>
<th>e-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sections 11/32:</td>
<td>Song Gao</td>
<td>TBA</td>
<td>TBA</td>
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</tr>
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<td>Sections 12/31/51:</td>
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<td>Sections 21/22:</td>
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<td>Sections 41/42:</td>
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<tr>
<td>Sections 61/62:</td>
<td>Justin Miller</td>
<td>B26 Hayes-Healy</td>
<td>TBA</td>
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</tbody>
</table>

Text: Stewart, Single Variable Calculus, Eighth edition (See Book/Access Code Information on the website before you make any purchases.)

Syllabus: We will cover Chapters 1-5. The topics are functions, limits and rates of change, derivatives, applications of differentiation, integrals, applications of integration.

Class Attendance: A first-year student who accumulates more than 3 unexcused absences may be given an F.

Tutorials: The Tuesday tutorials are mandatory. Quizzes and group activities will be conducted during the tutorial sessions. More details can be found on the website under Quiz Information/Worksheet Solutions. Your Tutorial grade will count for a total of 100 points toward your final grade. There will be no tutorials in the weeks of midterm exams, even for Thursday exam.

Homework: Homework problems will be assigned and graded electronically. (Click on Online Homework Information on the website for more details). Only the homeworks labelled by section number and topic will count towards your course grade. These homeworks help you learn the concepts from each section through applying them to problems. In addition to these homeworks, we provide an introduction to webassign, a self diagnostic test to identify your weaknesses in precalculus, and the multiple choice questions from practice exam 1 (posted close to the exam 1 date) to help you with your adjustment to college level calculus. None of these extra assignments count for credit. If you find that you are struggling with concepts from precalculus on the diagnostic test please contact Prof. Pilkington (Pilkington.4@nd.edu) so that we can arrange some extra help before you fall behind.

Poor Test Performance/Coaching Program If you have a poor performance on an exam, you will receive an e-mail which will invite you to attend our Sunday Night Coaching Program. This program helps you review your exams and prepare for upcoming exams with the help of an experienced coach. More details are available on the webpage: Sunday Night Coaching program

Feeling Underprepared If you feel underprepared or lost in the first few weeks of this course and need extra tutoring, please contact Prof. Pilkington (Pilkington.4@nd.edu) so that we can arrange some extra help before you fall behind.

Who To e-mail If you wish to discuss your grade or your progress in the course, discuss a problem with webassign, request a homework extension, or request a make-up exam etc..., the appropriate
person to contact is the instructor of your section. If it is necessary, your instructor will contact the course chair. If you have trouble signing up for webassign or sign into the wrong section, please come to the [Webassign sign-up Help Session](#).

**Examinations:** There will be three midterms and a final exam

### Exam Locations

<table>
<thead>
<tr>
<th>Time and Date</th>
<th>Exam 1</th>
<th>Exam 2</th>
<th>Exam 3</th>
<th>Final Exam</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>8-9:15 a.m.</td>
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<td>8-9:15 a.m.</td>
<td>1:45-3:45 p.m.</td>
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<tr>
<td></td>
<td>Tue. Sept 19</td>
<td>Thurs. Oct 12</td>
<td>Thur. Nov. 16</td>
<td>Tue. Dec 12</td>
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<tr>
<td>Sections 01 (Turetsky)</td>
<td>101 DBRT</td>
<td>101 DBRT</td>
<td>101 DBRT</td>
<td>TBA</td>
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<tr>
<td>Section 02 (Orton)</td>
<td>101 DBRT</td>
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<td>TBA</td>
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<tr>
<td>Section 03 (Pilkington)</td>
<td>102 DBRT</td>
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<td>TBA</td>
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<tr>
<td>Section 04 (Turetsky)</td>
<td>101 DBRT</td>
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<tr>
<td>Section 06 (Studenmund)</td>
<td>102 DBRT</td>
<td>102 DBRT</td>
<td>102 DBRT</td>
<td>TBA</td>
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</table>

Calculators will **NOT** be allowed on exams.

**Missed Exams:** Note that there will be three Midterm Exams and a Final Exam. Please take note of the dates of all exams. A student who misses an examination will receive zero points for that exam unless he or she has written permission from his/her dean(or the dean’s designee). Please be aware that travel plans, sleeping in, defective alarm clocks, scheduling medical procedures to coincide with an exam etc. are not considered to be a valid excuse! If you have a valid excuse (illness, excused athletic absence, etc.) for missing an exam, please see your instructor ASAP (preferably before the exam). Depending on the time that instructors have available and the circumstances, a makeup exam may be scheduled or you may be given the average of your grades on the other exams if you have a valid excuse.

**Exam Conflicts:** The exam conflicts are governed by The [undergraduate academic code](#). According to section 3.2.2.3, students with 3 or more finals in one day, or 4 or more finals in a 24 hour period, may negotiate to change the time of one of these finals. If you intend to request to have the time of your Math 10550 final changed because of conflict, you must talk to your dean(or the dean’s designee) at least one week before the start of the final exam period (see section 3.2.2.4 of the [undergraduate academic code](#)).

**Grading:**

- **Midterms:** 100 points each
- **Final:** 150 points
- **Quizzes/Group Activities:** 100 points
- **Homework:** 50 points (after scaling)

Your final grade will be determined by your total score (out of 600).

**Honor Code:** Both examinations and homework are conducted under the [Honor Code](#). While discussion in small groups in doing homework is permitted (and strongly encouraged) in this course, the work should be your own. Letting someone login in your name and do your homework is clearly a violation of the honor code. Exams are closed book and are to be done completely by yourself with no help from others, no calculators and no cheat sheets.

**Study Habits/Learning Strategy** In this course we emphasize both the acquisition of new ideas
and the process of solving problems with those ideas. In order to develop a thorough knowledge of the material, it is important that you actively engage in the process of problem solving. In contrast to many courses on AP calculus, we reflect on situations to which theorems and formulas do not apply in addition to situations in which the theorems studied do apply. In addition exam problems often require the use and integration of many concepts from Calculus 1 along with concepts from precalculus. The extra depth usually requires a change in study habits and perspective for calculus students making the transition to college calculus. The study strategy outlined below is strongly recommended. More tips on Studying appear on the website under Study Tips. You should reserve at least 5 hours outside of class to read the book, summarize your lectures, complete your homework and look over old exam questions.

**Ground work** (The PATH to success!)

1. **Prep.** for lecture: Prior to each lecture, attempt to read the relevant section of the book or the lecture notes ([Current Lectures (Section 03)](Current%20Lectures%20%28Section%2003%29)) to get the main ideas. Work through any precalculus questions in the homework on that section (see the Homework Information handout for more details) and review the necessary topics from precalculus ([Precalculus Resources](Precalculus%20Resources) and [Algebra/Precalculus Review for Math 10550](Algebra%20%2F%20Precalculus%20Review%20for%20Math%2010550)) so that you do not get lost in calculations that depend on these in your lecture.

2. **After your lecture:** summarize the main ideas and examples treated. Pay special attention to the conditions necessary to apply each theorem or method studied and try to think of situations where the theorems and methods do not apply in addition to those in which they do apply. For each example treated in class, reflect on the methods and results used to solve the problem.

3. **Test questions and Homework:** Start the online homework well before the due date so that you have time to get help if you do not understand it. After the due date, look at the solutions and reflect on your mistakes (if any) and the methods used to solve each problem. Look for old exam questions on the material under [Old Exams For Practice](Old%20Exams%20For%20Practice). In addition to helping you to integrate the material and recognize questions on it, this will also help you prepare for your tutorial. After you have attempted these questions, look at the solutions and reflect on the methods you used to solve the question and your mistakes if any.

**Putting it together** (The CAR that gets you there!)

1. **Condense the material:** At the end of each week, put together a synopsis of the lectures and examples from that week and save it for easy exam review. Make sure you get help on any concepts or problems that you could not understand/resolve.

2. **Attend Tutorial.** The quiz will help you to run a mini-simulation of the exam environment on the work from the previous week, and the worksheet will help you to work on problems which integrate a number of concepts and are similar to old exam questions. This will also give you an opportunity to get tips from your peers on solving these problems and studying the material. Review the solutions to the worksheet later in the week when they appear on our website under [Quiz Information/Worksheet Solutions](Quiz%20Information/Worksheet%20Solutions).

3. **Review for Exams:** Before each exam, start your review early (a week or more before the exam). Review your lecture summaries and make sure that you get help on your weak areas (requires planning ahead). Work through the practice exam prior to the day on which it is covered in class. On the day of the exam, you will be required to answer questions on a large body of material.
without any props. You must prepare honestly and thoroughly for this scenario when working through the practice exam. Extra old exams are available on our website for practice under Old Exams For Practice.

**Communication for this course is mainly through e-mail or in class.** Please make a folder in your e-mail account to store all messages pertaining to this course for your reference. In particular store all messages from your instructor, your tutor and Professor Pilkington.

**Resources** Please make sure you are aware of the resources for this course by taking time to browse through the website and the online homework. Of note are:

**Online Homework** Practice problems, videos, interactive e-book with links to Wolfram demonstrations and videos.

**Website**
- Resources for precalculus review in online homework and on our website: [Precalculus Resources](#).
- Lecture notes and videos on Algebra/Precalculus: [Algebra/Precalculus Review for Math 10550](#).
- Notes from some sections and previous classes, [Current Lectures (Section 03)](#) and [Professor Borelli’s Lectures (Fall 2011)](#).
- Practice Exams under [Old Exams For Practice](#).
- Old Exam Questions under [Old Exams For Practice](#).
- List of quiz topics for tutorials and solutions to the tutorial worksheets under [Quiz Information/Worksheet Solutions](#).
- Mathematica worksheets under [Current Lectures (Section 03)](#) (must download free Mathematica software under Software Downloads on the OIT Website).

**Help** See website for more details: [Help Available](#).
- Help with Signing up for Webassign: [Webassign sign-up Help Session](#), Sun Aug. 27, 7-8 p.m..
- Office Hours: Your instructor and tutor will announce office hours in class; [Help Available](#).
- [MATH 10550 Help Room](#) (walk in), run by tutors and instructors for the course.
- Tutors available at Mathematics Library, Sun-Thurs, 7-11p.m., e-mail mathlib.1@nd.edu to schedule.
- Learning resource center, tutoring and collaborative learning sessions, check website for details; [Help Available](#).
- Sunday Night Coaching Program, A program to help you identify your problems and maximize your grade if you perform poorly on an exam; [Sunday Night Coaching Program](#).
- Exam Reviews, The night before each exam, one of the instructors will hold a walk in review/Q&A session; [Exam Reviews](#). Also tutors and Instructors often volunteer to hold extra independent open reviews. Information about these will be included in the exam information sent by e-mail prior to the exam.