

## Course Syllabus for MA 16100, Fall 2020

5 credit hours

*As a Boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do.  
Accountable together - we are Purdue.*

**Instructor:** Jon Peterson

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**Office:** 430 Mathematical Sciences Building

**E-mail:** peterson@purdue.edu

**Office Hours:**

In-person: Mondays 4:30-5:30, Wednesdays 3:30-4:30 in WALC 1121

Online (WebEx): Friday 1:30-2:30 at <https://purdue.webex.com/join/peterson>

*The preferred method to contact me is via e-mail. However, due to the large number of students in this class, for most questions (in particular for technical problems with MyLab Math or some other computer issue) it is recommended that you first e-mail your TA. If the TA cannot answer your question they will then pass the question along to me. Questions regarding the homework can be asked at any time on Piazza.*

**Course Objectives:**

1. To compute limits and to apply limit laws.
2. To apply rules of differentiation to compute derivatives of elementary functions.
3. To sketch graphs of functions with the aid of differentiation techniques.
4. To find maxima and minima of functions; optimization problems
5. To compute integrals of some elementary functions and to apply the Fundamental Theorem of Calculus to compute areas of certain planar regions.

**Course Web Sites:**

- Brightspace - <https://purdue.brightspace.com/d21/login>. This is the main course web page. Look here for announcements, a course calendar, and lecture videos.
- *MyLab Math* - This is the website used the online homework assignments. **You will need to purchase access to *MyLab Math* to be able to complete the homework.** The login for *MyLab Math* is accessed through Brightspace
- Gradescope - Any handwritten assignments, exams, or quizzes will be submitted through gradescope. You will take a picture of your solution and then upload the picture through Gradescope. Access to the Gradescope website can be found through the link in Brightspace.
- Piazza - Discussion forum and online homework help. Click on the link in Brightspace to enroll in the Piazza page for this course.

In addition to the above websites, the math department has a website for this course <http://www.math.purdue.edu/MA161> which not only has links to some of the important course documents which are also on Brightspace, but also has an archive of past exams for this course which can be useful in studying for exams.

**Lectures:** Instead of the traditional in-class 50 minute lectures, the lectures will be delivered through multiple short videos (typically 5-15 minutes each) on the Brightspace website. See the assignment schedule within each module in Brightspace for the list of videos to watch for each lesson.

**Homework:** There are 33 online assignments using *MyLab Math*.

Due dates and times are listed in the *MyLab Math* system and on assignment schedule. Generally, homework from the Friday and Monday lectures are due Tuesday at 11:59<sup>pm</sup> and homework from the Wednesday lecture is due Thursday at 11:59<sup>pm</sup>.

**Recitation Sections:** Due to social distancing constraints, in-person attendance for recitation sections will be limited to 20 students per day. Students must choose an “attendance group” in Brightspace indicating whether they will attend in-person on Tuesday, Thursday, or if they will choose to participate online only. Instructions on how to choose an attendance group are in the *Welcome to MA 161* section of the Brightspace course page.

**Quizzes:** There will be a quiz in every recitation class with a few exceptions. The quizzes will be on the material from lessons whose homework is due the previous recitation. Quizzes will be submitted for grading by uploading scanned copies of solutions to Gradescope. Instructions on how to upload solutions are posted in the Gradescope module in Brightspace.

**Policy on Late Homework and Missed Quizzes:** Late homework will not be accepted. No make-up quizzes will be given. At the end of the semester, the 3 lowest homework scores and the 2 lowest quiz scores will be dropped. Students who are forced to miss class for an extended period of time should see the lecturer.

**Midterm Examinations:** There will be three midterm exams.

EXAM 1 – Friday, September 18  
EXAM 2 – Friday, October 16  
EXAM 3 – Wednesday, November 11

The exams will be conducted online with MyLab Math, and will be proctored in the following manner.

- **in-person:** A large lecture room and a computer lab will be reserved throughout the day. Students will reserve a time during the day when they will take the exam in person and will be monitored by in-person proctors while they take the exam. Students who reserve a time in the large lecture room will be expected to bring their own laptop and power cord to the exam. Students who reserve a time in a computer lab will take the exam on the computers in the lab.
- **online:** For online students or on-campus students who are under quarantine, the exams will be proctored remotely using an online proctoring service such as Examity. Students may potentially be required to pay the fee for the online proctoring service.

**Final Examination:** There will be a comprehensive exam during final exam week. The date of the final exam has not yet been determined. The exam will be conducted online and will be roughly twice the length of the midterm exams. The final exam will not be proctored.

**Homework Help:** Homework help can be obtained through the discussion forums on Piazza. See the link in Brightspace to access the Piazza page for this course. The purpose of the Piazza forum is to foster student learning. The TAs working on the forum will answer questions on course material and go through problems similar to students homework problems. The instructors will not do your exact homework problems. Instead, they will go through a similar problem with you to give you another example to work through. This is more beneficial for you, since it better prepares you for quizzes and exams.

**Grades:** Course grades will be determined from your overall score which will be computed as follows:

Homework	16 %
Quizzes	16 %
Three midterms @ 16 % each	48 %
Comprehensive Final Exam	<u>20 %</u>
	100 %

Final course letter grades will be at least as generous as the following:

A+(97), A(93), A-(90), B+(87), B(83), B-(80), C+(77), C(73), C-(70), D(63), D-(60)

Advisory letter grades will be published after each midterm exam to give students an idea of their standing in the course.

**Calculators:** Calculators or other mathematical software may be used on homework, but it is important that you not become too reliant on the calculators. You must be able to do simple manipulations by hand, and calculators will not be allowed for use on the midterm exams.

**Important Dates:**

Last day to drop the course without it being recorded: Friday, **September 4**

Last day to drop the course and receive a W: Tuesday, **October 27** (5:00<sup>pm</sup>)

**Transfers:** If you transfer sections, it is your responsibility to notify the TA of the new section so that he/she can check that your *MyLab Math* scores have carried over.

**Supplemental Instructions:** There are Supplemental Instruction (SI) study sessions available for this course. Due to Covid-19 Supplemental Instruction sessions and office hours will be held fully online via WebEx for the Fall 2020 semester. These study groups are open to anyone enrolled in this course who would like to stay current with the course material and understand the material better. Attendance at these sessions is voluntary, but extremely beneficial for those who attend weekly. Times and locations for the study session can be found here: <https://www.purdue.edu/asc/si/> or the free PurdueGuide app: <https://www.purdue.edu/asc/PurdueGuide.html>. Students who attend these interactive sessions will find themselves working with peers as they compare notes, demonstrate and discuss pertinent problems and concepts, and share study and test-taking strategies. Students are asked to be ready with their lecture notes and questions to these informal, peer-led study sessions.

**Academic Adjustments for Students with Disabilities:** Purdue University strives to make learning experiences accessible to all participants. If you anticipate or experience physical or academic barriers based on disability, you are encouraged to contact the Disability Resource Center at: [drc@purdue.edu](mailto:drc@purdue.edu) or by phone: 765-494-1247.

If you have been certified by the Disability Resource Center (DRC) as eligible for academic adjustments on exams or quizzes see [www.math.purdue.edu/ada](http://www.math.purdue.edu/ada) for exam and quiz procedures for your mathematics course or go to MATH 202 for paper copies. If you have questions please send an email to Stephanie Foster at [foster80@purdue.edu](mailto:foster80@purdue.edu).

In the event that you are waiting to be certified by the Disability Resource Center we encourage you to review our procedures prior to being certified.

For all in-class accommodations please contact your instructor as soon as possible. Instructions for sending your Course Accessibility Letter to your instructor can be found at <https://www.purdue.edu/drc/students/course-accessibility-letter.php>

**CAPS Information:** Purdue University is committed to advancing the mental health and well-being of its students. If you or someone you know is feeling overwhelmed, depressed, and/or

in need of support, services are available. For help, such individuals should contact Counseling and Psychological Services (CAPS) at (765)494-6995 and [www.purdue.edu/caps](http://www.purdue.edu/caps) during and after hours, on weekends and holidays, or by going to the CAPS office, room 224 of the Purdue University Student Health Center (PUSH) during business hours.

**Commercial Note Taking in Classes:** Notes taken in class are generally considered to be “derivative works” of the instructor’s presentations and materials, and they are thus subject to the instructor’s copyright in such presentations and materials. No individual is permitted to sell or otherwise barter notes, either to other students or to any commercial concern, for a course without the express written permission of the course instructor. See University Senate Document 03-9, April 19, 2004.

**Academic Dishonesty:** Academic integrity is one of the highest values that Purdue University holds. Individuals are encouraged to alert university officials to potential breaches of this value by either emailing [integrity@purdue.edu](mailto:integrity@purdue.edu) or by calling 765-494-8778. While information may be submitted anonymously, the more information that is submitted provides the greatest opportunity for the university to investigate the concern.

Purdue prohibits “dishonesty in connection with any University activity. Cheating, plagiarism, or knowingly furnishing false information to the University are examples of dishonesty.” [Part 5, Section III-B-2-a, University Regulations] Furthermore, the University Senate has stipulated that “the commitment of acts of cheating, lying, and deceit in any of their diverse forms (such as the use of substitutes for taking examinations, the use of illegal cribs, plagiarism, and copying during examinations) is dishonest and must not be tolerated. Moreover, knowingly to aid and abet, directly or indirectly, other parties in committing dishonest acts is in itself dishonest.” [University Senate Document 72-18, December 15, 1972]. For more details about the Purdue Policy on academic dishonesty see

<http://www.purdue.edu/odos/academic-integrity/>

**Course and Instructor Evaluations:** During the last two weeks of the semester, you will be provided an opportunity to evaluate this course and your instructor(s) through online course evaluations. On Monday of the 14<sup>th</sup> week of classes, you will receive an official email from evaluation administrators with a link to the online site. You will have two weeks to complete this evaluation. Your participation in this evaluation is an integral part of this course. Your feedback is vital to improving education at Purdue University. We strongly urge you to participate in the evaluation system.

**Special Issues - Covid-19:** Students should stay home and contact the Protect Purdue Health Center (496-INFO) if they feel ill, have any symptoms associated with COVID-19, or suspect they have been exposed to the virus. In the current context of COVID-19, in-person attendance will not be a factor in the final grades, but the student still needs to inform the instructor of any conflict that can be anticipated and will affect the submission of an assignment or the ability to take an exam. Only the instructor can excuse a student from a course requirement or responsibility. When conflicts can be anticipated, such as for many University-sponsored activities and religious observations, the student should inform the instructor of the situation as far in advance as possible. For unanticipated or emergency conflict, when advance notification to an instructor is not possible, the student should contact the instructor as soon as possible by email or by phone. When the student is unable to make direct contact with the instructor and is unable to leave word with the instructors department because of circumstances beyond the students control, and in cases of bereavement, quarantine, or isolation, the student or the students representative should contact

the Office of the Dean of Students via email at [odos@purdue.edu](mailto:odos@purdue.edu) or phone at 765-494-1747. Our course Brightspace includes a link on Attendance and Grief Absence policies under the University Policies menu.

If you become quarantined or isolated at any point in time during the semester, in addition to support from the Protect Purdue Health Center, you will also have access to an Academic Case Manager who can provide you academic support during this time. Your Academic Case Manager can be reached at [acmq@purdue.edu](mailto:acmq@purdue.edu) and will provide you with general guidelines/resources around communicating with your instructors, be available for academic support, and offer suggestions for how to be successful when learning remotely. Importantly, if you find yourself too sick to progress in the course, notify your academic case manager and notify me via email. We will make arrangements based on your particular situation. The Office of the Dean of Students ([odos@purdue.edu](mailto:odos@purdue.edu)) is also available to support you should this situation occur.

**Protect Purdue:** The Protect Purdue Plan, which includes the Protect Purdue Pledge, is campus policy and as such all members of the Purdue community must comply with the required health and safety guidelines. Required behaviors in this class include: staying home and contacting the Protect Purdue Health Center (496-INFO) if you feel ill or know you have been exposed to the virus, wearing a mask in classrooms and campus building, at all times (e.g., no eating/drinking in the classroom), disinfecting desk/workspace prior to and after use, maintaining proper social distancing with peers and instructors (including when entering/exiting classrooms), refraining from moving furniture, avoiding shared use of personal items, maintaining robust hygiene (e.g., hand-washing, disposal of tissues) prior to, during and after class, and following all safety directions from the instructor.

Students who are not engaging in these behaviors (e.g., wearing a mask) will be offered the opportunity to comply. If non-compliance continues, possible results include instructors asking the student to leave class and instructors dismissing the whole class. Students who do not comply with the required health behaviors are violating the University Code of Conduct and will be reported to the Dean of Students Office with sanctions ranging from educational requirements to dismissal from the university.

Any student who has substantial reason to believe that another person in a campus room (e.g., classroom) is threatening the safety of others by not complying (e.g., not wearing a mask) may leave the room without consequence. The student is encouraged to report the behavior to and discuss next steps with their instructor. Students also have the option of reporting the behavior to the Office of the Student Rights and Responsibilities. See also Purdue University Bill of Student Rights.

**Other Issues:**

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. To get information about changes in this course please check frequently the announcement section on Brightspace or the course web page on the math department website [www.math.purdue.edu/MA161](http://www.math.purdue.edu/MA161).