

MA16020 Course Syllabus

Fall 2024

Course Description: Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems

Prerequisite: Minimum grade of C- in MA16010, MA16100, MA16300, MA16500, MA16700, MA22300, MA22100, or MA23100.

Textbook: Students will have to purchase an access code for Achieve to do class assignments. Achieve also includes an e-book and videos. Please see the “About Achieve” document for details.

Homework Access: Online homework access through Achieve.

Discussion Board: We will use Piazza for online discussion.

Calculator: A non-graphing scientific calculator will be required for this course.

Homework: Homework assignments will be assigned regularly. There will be **35 assignments** total worth 10 points each. The lowest two homework scores will be dropped at the end of the course. Each assignment is due at 11:59pm on the day of the next lecture (with the exception of the first 5 homework assignments that are all due on Friday, August 30. Since the homework is available well in advance of due dates, you should take into account any adjustments in your schedule to make sure that all homework is completed before the due date. Extensions will not be given on any homework assignment. Homework is worth 10% of the course grade.

Quizzes: There will be **10 quizzes total with 10 points each**. The **lowest** quiz score will be dropped. There will be no early or make-up quizzes. In extenuating circumstances, you may be exempted from a quiz. Quizzes are worth 10% of the course grade.

Exams: There will be three midterm exams and a final exam. **All exams MUST be taken on campus**. Each exam is worth 100 points, and the final exam is worth 200 points. Exam grades are worth 80% of the final grade. The final exam will be comprehensive, and it will cover the material from the entire course. All exams are course-wide, multiple-choice, machine-graded exams. The three midterms are all evening exams. The final exam information will be given later in the semester.

Make sure that you are available on the dates of the exams to take the exams. Make sure to read the exam memo posted on Brightspace for information about each exam. Exam dates are as follows.

Exam 1: Tuesday, September 19, 6:30-7:30pm, Location TBA

Exam 2: Monday, October 21, 6:30-7:30pm, Location TBA

Exam 3: Tuesday, November 21, 6:30-7:30pm, Location TBA

Final Exam: TBA

If there are any special circumstances that may affect your ability to successfully complete an exam (illness, family emergency, etc.), you must discuss the situation with your instructor before taking the exam. Do not wait until after you take the exam to mention a situation to your instructor. Students cannot retake an exam.

Exam Penalties: The exams will all be multiple choice machine graded the exams. The demographic information on the scantron must be correct in order for your score to be automatically processed. If it is incorrect, there will be a delay in scoring since the exam will have to be retrieved and hand graded. So there will be a 5 point penalty if your PUID is filled in incorrectly, and a 5 point penalty for an incorrect test number.

Exam Attendance: Attendance at exams IS REQUIRED (including all students in the Distance Learning section). If you miss an exam for any reason, contact your instructor AND the course coordinator (Dave Norris norris@purdue.edu) immediately and explain why you missed the exam. You should be prepared to present documentation to the course coordinator that supports the reason for your absence. If you contact the course coordinator within 24 hours from the scheduled exam, you may be allowed to take an alternate exam either with or without a 20% penalty, depending on the reason for your absence. If you miss an exam with no valid and documentable reason and you do not contact the course coordinator within 24 hours from the scheduled exam, you will not be allowed to take an alternate exam. Not knowing the correct time, date, or location of the exam is not a valid reason for missing an exam.

Grades: The course grade will be based on the following scaled percentages.

| | |
|------------|------|
| Homework | 10% |
| Quizzes | 10% |
| Exam 1 | 16% |
| Exam 2 | 16% |
| Exam 3 | 16% |
| Final Exam | 32% |
| Total | 100% |

Final letter grades will be determined using the following grading scale. This grading scale has already incorporated a curve in it. There will not be any other curves. To ensure fairness to all students, we will **STRICTLY** follow the grading table below. No bump-ups will be given.

| Average | Grade | Average | Grade |
|----------|-------|---------|-------|
| 98%-100% | A+ | 70%-74% | C+ |
| 90%-100% | A | 65%-69% | C |
| 88%-89% | A- | 60%-64% | C- |
| 86%-87% | B+ | 57%-59% | D+ |
| 78%-85% | B | 50%-56% | D |
| 75%-77% | B- | 0%-49% | F |

Office Hours: Instructors will hold their office hours in their office or in the Math Resource Room. You are strongly encouraged to utilize the office hours if you have any questions or need any help.

Section Changes: During the first week of classes, you can make section changes yourself within myPurdue, and no signatures are required. From the second week until the deadline, you need to submit an electronic section change request on myPurdue. The last day to switch from a traditional (in-person) to the online section or vice versa is **Fri, 8/30**. The last day to switch between two traditional sections is **Tues, 10/22**.

Course Drop: During the first two weeks of classes, you can drop the course yourself within myPurdue, and no signatures are required. The course will not be recorded. From the third to the thirteenth week, advisor's approval is required and the course will be recorded with a grade of "W".

Accommodations 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 a disability, you are encouraged to contact the Disability Resource Center at drc@purdue.edu or by phone: 765-494-1247.

If you have been certified by the Disability Resource Center (DRC) as eligible for accommodations, you should contact your instructor to discuss your accommodations as soon as possible. Here are instructions for sending your Course Accessibility Letter to your instructor: <https://www.purdue.edu/drc/students/course-accessibility-letter.php>.

In this mathematics course accommodations are managed between the instructor, the student, and the DRC Testing Center. Accommodated exams need to be scheduled a minimum of 7 business days in advance online at: <https://www.math.purdue.edu/academic/courses/ada>.

Grief-Absence Policy for Student (GAPS): If you experience a death of a family member or close friend, notify the Office of Dean of Students at 765-494-1747. Scores for any missed exams under a verified GAPS absence will be prorated (assigned a score based on your average and the class average). See the course coordinator (Dave Norris, MATH 810) for more information.

Military Absence Policy for Students (MAPS): If you are required to complete mandatory military service, notify the Office of Dean of Students at 765-494-1747 to request that a notice of the leave be sent to instructors. See the course coordinator (Dave Norris, MATH 810) for more information.

Medically Excused Absence Policy for Students (MEAPS): Students will be excused, and no penalty will be applied to a student's absence for situations involving hospitalization, emergency department or urgent care visit and be given the opportunity to make up coursework. Students experiencing hospitalization, emergency department or urgent care visits can provide documentation to ODOS who will then assess the student's request for a Medical Excused Absence, and issue notification of the start and end of the absence to the student's instructors. The student should then follow up with the instructor to seek arrangements as needed

Campus Emergency Procedure: In the event of a major campus emergency, course requirements, deadlines, and grading policies are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. Announcements

regarding campus emergencies will be sent via course-wide emails and will be posted on Brightspace.

Academic Dishonesty: The Mathematics Department will not tolerate academic dishonesty of any sort. If academic dishonesty occurs, then grade penalties will be imposed, possibly to the extent of an “F” in the course. Additionally, all cases of academic dishonesty will be reported to the Office of the Dean of Students for disciplinary action (which may include probation, suspension, or expulsion). If you would like to report issues of academic integrity, you can report to the Office of the Dean of Students (purdue.edu/odos), call 765-494-8778, or email integrity@purdue.edu.

Course Evaluations: At the end of the semester, you will receive an official email from evaluation administrators with a link to online course evaluations. You will have two weeks to complete this evaluation. You are strongly encouraged to participate. Your feedback is vital to maintaining and improving the quality of education at Purdue University.

Emergency Preparedness Summary: There is a separate document about emergency preparedness. Here is a summary:

- If an alarm is heard inside a building, immediately evaluate the building. Get a safe distance from the building. Remain outside the building until police, fire, or other emergency response personnel provide additional guidance or tell you it is safe to leave or return to the building.
- If an alarm is heard outside a building, immediately seek shelter in a safe location within the closest building. These types of alarms may indicate a tornado, a civil disturbance, or release of hazardous materials in the outside air. Remain inside the building until police, fire, or other emergency response personnel provide additional guidance or tell you it is safe to leave.
- In both cases above, you should seek additional clarifying information by all means possible such as through the Purdue University home page, email alert, TV, radio, etc.