

MA16020 : Applied Calculus II - Online Distance Course
FULLY ONLINE - OFF CAMPUS VERSION, section 903
Course Information - Syllabus(Part II)
FALL 2020

Due to the unusual nature of this semester, the Syllabus will continue to be updated and emended as needed the remainder of the semester. Updated sections will be highlighted when changes or additions have been made

COURSE COORDINATOR: Owen K. Davis, Office: MATH 812, email: davisok@purdue.edu

COURSE WEB PAGE: <http://www.math.purdue.edu/ma16020>

TEXTBOOK: No textbook to purchase. Course contents will be provided to students online through LON-CAPA free of charge. loncapa.purdue.edu

HOMEWORK ACCESS: Online homework access through LON-CAPA will be provided to students free of charge. loncapa.purdue.edu

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; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

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

Calculator: A scientific calculator with a **one-line display** is required. **ONLY THIS TYPE OF CALCULATORS WILL BE ALLOWED. NO EXCEPTIONS. HIGHLY Recommended is the TI-30Xa.** If in doubt, please double check with your instructor. You are allowed to use but NOT to share the approved calculators on quizzes and exams.

Homework: Homework assignments will normally be due at **6:59AM**, the day of the next lesson/lecture. **Homework due dates and times will appear in LON-CAPA.** The **three** lowest homework scores will be dropped at the end of the semester. If you are not able to complete your homework on time and have extenuating circumstances with valid supporting documents, please communicate with myself, the Course Coordinator(Owen Davis davisok@purdue.edu).

Special Note: If you feel one of your homework answers is being graded incorrectly, please get help using the Piazza Discussion Board mentioned further below, posting screenshot(s) of the problem with your answer and the work you think is correct, however actual LON-CAPA grading mistakes are extremely rare. **AFTER homework answers are available for a given HW assignment in LON-CAPA**, when a HW assignment goes past due, then do email the Course Coordinator(Owen Davis davisok@purdue.edu) if the answer you submitted was incorrectly graded.

Quizzes: There will be some quizzes, probably one or two each week. No make-up quizzes will be given. Only your instructor can excuse a quiz.

Requests to have deadlines extended and/or work excused **must be made at the time of your absence.** No consideration will be given to requests made after that time.

Exams: There will be 4 midterm exams. The exams are planned to be administered through ProctorU, an online testing service for a fee. There will be a lot of exam start time flexibility on exam days, including early morning, afternoon, and evening start times. **The semester does not end until Saturday, December 12 at 9:00 pm.**

If you miss an exam for any reason, please contact your instructor **AND the Course Coordinator(Owen Davis davisok@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(Owen Davis davisok@purdue.edu) within 24 hours from the scheduled exam, the Course Coordinator **might** allow you to take an alternate exam either with no penalty OR with a 15 point deduction, depending on the reason for your absence. If you miss an exam with no valid and documentable reasons and you do not contact the Course Coordinator within 24 hours from the scheduled exam, you will not be allowed an alternate exam. Not knowing the right time, date or location of an exam is not a valid reason for missing an exam.

Exam Warning: If there are any special circumstances that may affect your ability to successfully complete an exam (illness, family emergency, etc.) you must contact your instructor **AND the Course Coordinator(Owen Davis davisok@purdue.edu)** before taking the exam, even if you must do so right before the exam. The Course Coordinator(Owen Davis davisok@purdue.edu) will then be able to advise you on your options. Do not wait until after you take the exam to contact the Course Coordinator(Owen Davis davisok@purdue.edu)

OFFICE HOURS: Will be Piazza Discussion Board hours for all TA's and Instructors

Piazza Discussion Forum for Homework questions. It can also be used for lesson material/content questions about the LON-CAPA etext Examples and Videos. We will use Piazza for the online discussion board for ALL homework questions. There will be multiple moderators that can help you with even smaller issues like typing in answers correctly. Asking a question, posting a screenshot(s) of your solution AND the problem with the answer you are typing in, can all be helpful to getting prompt useful help. This is also a great place for you to interact with other fellow students and get your homework questions answered by one another also. **You are highly encouraged to actively participate in the discussion.**

SUPPLEMENTAL INSTRUCTION: There are Supplemental Instruction (SI) study sessions available for this course. 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 regularly. Times and locations for the help sessions can be found here: www.purdue.edu/si or at the app: www.purdue.edu/boilerguide. 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 arrive with their student ID card, lecture notes and questions to these informal, peer-led study sessions.

LEARNING OUTCOMES: Formulate an integral to solve a Word/Application problem. Formulate a differential equation to solve a Word/Application problem. Formulate an infinite series to solve a Word/Application problem. Formulate a multivariable function to solve a Word/Application problem. Formulate a matrix equation to solve a Word/Application problem.

GRADES: There will be some adjustments and changes made as needed this unusual semester. The course grade will be based on a total of 580 points. Since the 4 midterm exams are common to all students, a normalization process based on the composite score (sum of the scores for Exams 1 through 4; maximum 480 points) is used to determine the number of each letter grade given:

To insure a grade system that is as fair possible, and since the assessments common to all students and graded identically for all students are the 4, course-wide exams, the best way to compare the learning of students in different sections with different instructors who will write and grade significantly different quizzes is using these common exams.

SO...

SEMESTER LETTER GRADE CALCULATIONS:

Homework	50
Quizzes	50
Exams 1 to 4, 120 points each	480
Total	580 points

1. Each student's Exams 1 through 4 scores will be added together, to form a composite score (out of a maximum of 480 points).
2. The Mathematics Department will decide on the A range, B range, etc., for the composite scores.
3. The course coordinator will count the number of composite scores for each instructor's combined group of students which are in the A range, B range, etc.
4. For course grades, the course coordinator will assign a number of As, Bs, etc, equal to the number of As, Bs, etc. earned as the composite scores. However, the final grades will be assigned based on total score (out of the 580 points as listed in the table above).
5. Example: Suppose there are 8 As, 10 Bs, etc. for the composite scores among your instructor's students, then the students in his/her section with the 8 highest total scores will receive an A; students with the next 10 highest total scores will receive a B; and so on.
6. If your total score is within 2 points of a grade cutoff, your grade will be raised to the higher full letter grade. If your total score is within 3-13 points of a grade cutoff, your grade will be raised and a minus sign added (that is, you will earn an A-, B-, C-, or D-). If your total score is within 14-24 points of a grade cutoff, a plus sign will be added to your grade (that is, you will earn a B+, C+, or D+).

GRADE SCALE NOTE: This a required syllabus element, but for this course the actual grades will always be more generous than this. So, think of this as a safety net grade guarantee. Students who get at least 97 percent of the total 580 points in this course are guaranteed an A+, 93 percent guarantees an A, 90 percent an A-, 87 percent a B+, 83 percent a B, 80 percent a B-, 77 percent a C+, 73 percent a C, 70 percent a C-, 67 percent a D+, 63 percent a D, and 60 percent a D-; for each of these grades, it is almost certain that at the end of the semester a somewhat lower percentage will be enough to get that grade.

ACADEMIC ADJUSTMENTS FOR STUDENTS WITH DISABILITIES: Since you will be completely off campus, these accommodations will be applied remotely to online assessments such as exams. If you have questions or concerns, please do contact the course coordinator(Owen Davis davisok@purdue.edu) 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 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 <http://www.math.purdue.edu/ada> for exam and quiz procedures for your mathematics course. If you have questions, please do contact the course coordinator(Owen Davis davisok@purdue.edu). If you have further questions, please send email to Stephanie Foster (foster80@purdue.edu)

In the event that you are waiting to be certified by the DRC we encourage you to review our procedures prior to being certified. For all in-class accommodations please contact the course coordinator(Owen Davis davisok@purdue.edu) 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>

SUPPORT for Stress, Anxiety, Learning Resources, or Mental Health:

If you find yourself beginning to feel some stress, anxiety and/or feeling slightly overwhelmed, try WellTrack, <https://purdue.welltrack.com/>. Sign in and find information and tools at your fingertips, available to you at any time.

If you need support and information about options and resources, please see the Office of the Dean of Students, <http://www.purdue.edu/odos>, for drop-in hours (M-F, 8 am- 5 pm).

If you're struggling and need mental health services: 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 mental health support, services are available. For help, such individuals should contact Counseling and Psychological Services (CAPS) at (765)494-6995 and <http://www.purdue.edu/caps/> during and after hours, on weekends and holidays, or by going to the CAPS office of the second floor of the Purdue University Student Health Center (PUSH) during business hours.

Academic Guidance in the Event a Student is Quarantined/Isolated: 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 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 (Owen Davis davisok@purdue.edu) via email. We will make arrangements based on your particular situation. The Office of the Dean of Students (odos@purdue.edu) is also available to support you should this situation occur.

Attendance Policy during COVID-19: In the current context of the COVID-19 pandemic, the only reasonable approach this semester to attendance is that in-person meetings of a course cannot be a factor in final grades. This temporary interpretation will ensure that students are able to follow the guidelines in the Protect Purdue Pledge. Most specifically, students must refrain from attending class if they are exhibiting any symptoms of COVID-19, are otherwise ill, or are quarantined or isolated.

Classroom Guidance Regarding 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, properly wearing a mask in classrooms and campus building, at all times (e.g., mask covers nose and mouth, no eating/drinking in the classroom), disinfecting desk/workspace prior to and after use, maintaining appropriate 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., handwashing, 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.

CAMPUS EMERGENCY PROCEDURE: 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. Announcements regarding campus emergencies will be sent via course-wide emails and posted on the course web page.

ACADEMIC DISHONESTY: Academic honesty and integrity is a critical part of all we do at Purdue. Students are expected to adhere to the Purdue Honor Pledge: As a boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do. Accountable together we are Purdue. See the Purdue Honor Pledge for more information.

The Mathematics Department will not tolerate academic dishonesty of any sort. If academic dishonesty occurs, then grade penalties will be imposed, zeros on assessments for sure, and up the extent of a directed F in the course. 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). NOTE: students should be made aware that they can report issues of academic integrity that they observe, either through the Office of the Dean of Students (purdue.edu/odos), call 765-494-8778 or email integrity@purdue.edu .

DEADLINES FOR SECTION CHANGES AND DROPS: During the first week of classes, section changes and drops are made via Banner within myPurdue, and no signatures are required. From the second through ninth weeks of the semester section changes and drops are possible using a Form 23 with the consent of your advisor and the instructor of the section you want to enter or drop. You will find the list of instructors with meeting times near the bottom of the course webpage. For drop signatures ONLY, if your instructor is not available, go to MATH 835 or to see the Course Coordinator Owen Davis in MATH 812.

LAST ADD DATE: The last day you can add this course is Tuesday, September 15.

COURSE EVALUATIONS: On Monday of the fifteenth week of classes, you will receive an official email from evaluation administrators with a link to online course evaluations.

EMERGENCY PREPAREDNESS SUMMARY: A document about emergency preparedness can be found on the course web page. 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 Purdue University home page, email alert, TV, radio, etc.