

## SECTION SYLLABUS

MATH 141 SPRING 2023

SECTIONS 020, 027, 033

### CALCULUS WITH ANALYTIC GEOMETRY II

INSTRUCTOR: Nathan Fontes

EMAIL: [nathan.fontes@psu.edu](mailto:nathan.fontes@psu.edu)

QUESTION HELP/OFFICE HOURS:

- M 2:00-3:00pm in McAllister 421
- TW 11:00am-12:00pm in McAllister 421
- M 7:00-8:00pm on Zoom ([Link here](#))
- By appointment

CLASS TIMES:

- Section 020: MTRF 12:20-1:10pm in Business Building 005
- Section 027: MTRF 3:35-4:25pm in Boucke 106
- Section 033: MTRF 4:40-5:30pm in Huck Life Sciences 011

REQUIRED MATERIALS: Achieve access associated with *Calculus: Early Transcendentals* by Jon Rogawski, Colin Adams, and Robert Fran-zosat, 4th ed. The textbook is included as an eBook in the Achieve online homework system. The cheapest option is around \$105, and includes eBook and Achieve access for Math 140, 141, and 230/231. **If you have already purchased Achieve access for multiple semesters, you do not need to purchase access again.**

Gradescope access will be used for submission of learning activities and written activities. It will also be used to grade and return feedback on learning activities, written activities, quizzes, and exams. Gradescope is free, and a link to it can be found on Canvas.

COURSE PLAN: This class will be given in an in-person setting. During class times, you are expected to be engaged in taking notes, working through practice problems, and completing learning activities with others. Outside of class times, you are expected to watch video lectures as your primary form of direct instruction. Ensure that you have dedicated a sufficient amount of time to this task. If you have any questions while watching video lectures, you are expected to write them down and either bring them to the next class period or ask via Piazza, email, question help, or by appointment.

ATTENDANCE: You are expected to attend class in-person when able. If you are absent for a class time, you must let me know within 24 hours of the absence with an excused reason for the absence. Excuses for an absence could be, but are not limited to:

- any form of illness (including COVID-19, a cold, or a runny nose),
- injury,
- university-sponsored athletics.

**If you are sick in any capacity, do not come to class! Your absence will be excused.**

EXTRA HELP AND TUTORING: If you find yourself with questions you have trouble answering, get help promptly! The first person to get help from is me, your instructor. Please ask questions during class. Please post questions on Piazza. Please come to my question help. Please send me an email. I will answer emails within 24 hours Monday through Friday, but likely much sooner. Any changes to office hours will be announced by email or Canvas Announcement as soon as possible. If you have any conflicts with my posted office hours, please arrange to meet with me at another time.

**There are many opportunities to receive free tutoring or work with others for this course. Do not wait to receive help!**

- We will have Learning Assistants (LA's) assisting with this course. They will be in class to answer questions during class time. In addition, they will be holding evening sessions for extra practice (times and locations found on Canvas). Attendance at the evening sessions is incentivized as follows: if you attend and participate in
  - 1 session out of Weeks 2-4 then the lowest quiz score is replaced with a perfect score
  - 2 sessions out of Weeks 5-8 then the lowest quiz score is replaced with a perfect score
  - 3 sessions out of Weeks 9-15 then the lowest quiz score is replaced with a perfect scoreTherefore, you can earn up to 3 quiz replacements. You can only earn one attendance credit per week — the same problems will be discussed during a given week's Tuesday, Wednesday, and Thursday sessions.
- The [Piazza board](#) has text channels and voice channels devoted to the sections of Math 141 that I am teaching, so you can work with others online. You can reach Piazza from Canvas.
- Penn State Learning supports several other free types of tutoring, including [Guided Study Groups](#) and [Peer Tutoring](#).
- Penn State Learning also has additional resources devoted to improving [Effective Learning](#), such as test-taking strategies, study habits, and use of office hours.

COURSE GRADE: The primary student products are the tests and final exam. Homework and Quizzes help you to prepare for these. The class will be out of a total of 600 points.

	Points	Percentage
Achieve Homework	25	4.17%
Learning Activities & Check-ins	20	3.33%
Written Activities	30	5%
Quizzes	75	12.5%
Midterm I	100	16.67%
Midterm II	100	16.67%
Midterm III	100	16.67%
Final Exam (cumulative)	150	25%
TOTAL	600	100%

Your final course grade is assigned as follows:

Grade	Points	Percentage
A	555 – 600	$x \geq 93\%$
A-	537 – 554	$93\% > x \geq 90\%$
B+	519 – 536	$90\% > x \geq 87\%$
B	495 – 518	$87\% > x \geq 83\%$
B-	477 – 494	$83\% > x \geq 80\%$
C+	459 – 476	$80\% > x \geq 77\%$
C	417 – 458	$77\% > x \geq 70\%$
D	357 – 416	$70\% > x \geq 60\%$
F	0 – 356	$60\% > x$

**ONLINE HOMEWORK:** Homework is the most important way to actually learn mathematics. It is a safe time before exams where making mistakes is okay and helps you understand why mathematics is done in a certain way. It is practice, the same as practicing sports or music. It is rehearsal, the same as rehearsing a speech or part in a play. It is preparation for when the work really matters.

You will submit your online homework on Achieve. Achieve assignments are due on Tuesdays. There is no time limit, and homework is not required to be finished in one sitting. Homework will not be accepted after the due date.

**You must enroll in Achieve on or before Wednesday, January 11.** To do so, you must use the access code purchased from the bookstore, or must purchase an access code from Macmillan Learning. There is a link on Canvas called “Achieve Registration (eBook and online homework access)” which you can click to gain access to Achieve.

**CHECK-INS:** STEM fields require constant and effective practice in order to learn and improve. The purpose of Check-ins is two-fold: to make you think about the most recent calculus material before it is needed again in the homework, quizzes, and tests, and to test your understanding of the most recent calculus material.

For each section of video lectures watched, you will have to complete a Check-in Canvas Quiz corresponding to those video lectures *before* the class in which they need to be watched. These Check-ins are meant to determine that you have watched the video lectures and have a basic understanding of the concepts taught. Check-ins will not be accepted after the due date.

**LEARNING ACTIVITIES:** Learning is a skill itself. There are many techniques, methods, and resources to improve the ability to learn. Finding the ones that are right for you can improve your learning just as much, if not more, than only practicing math questions. The goal of these Learning Activities is to give some insight into the skills to make learning more effective and efficient.

Learning Activities will be available at the start of class on Wednesdays, and are due by 11:59pm the following Friday. They will be in the form of Gradescope submissions. They will be graded out of a maximum of 5 points. They will receive a grade of 0 for no submission, 3 for any submission, or 5 for a submission with a reasonable effort. There are detailed instructions on Canvas for how to submit to Gradescope, under the title “Getting Started in Gradescope”.

**WRITTEN ACTIVITIES:** Learning math is very difficult without writing out steps, justifications,

and thought processes. The purpose of Written Activities is to be able to describe your thoughts in a written manner.

Written Activities will be posted on Canvas before class each Monday and will be due the following Thursday. They will be submitted to Gradescope up until 11:59pm on the Thursday in which they are due.

**QUIZZES:** On most Mondays in the semester, you will complete a Quiz on paper in class. The purpose of the quizzes is to simulate the environment of an exam. They will be graded on Gradescope.

There will be two “Readiness Quizzes” covering calculus I topics in class on Wednesday, January 11 and on Tuesday, January 17. There is a document titled “Calc 1 Review” posted to Canvas with the topics you need to be familiar with and problems to practice. Only your higher score out of these two will count for a quiz grade. If you earn at least 8/10 on one of these first two quizzes, your lowest Written Activity score will be replaced with a perfect score.

**LATE/MAKEUP WORK:** There is no late or makeup work available for Online Homework or Check-ins. If you are going to miss a deadline for a Learning Activity, a Written Homework, or a Quiz, you must notify me by email as soon as possible, but definitely within 24 hours of a missed assignment. Once the solutions key to an assignment is posted, no late or makeup work is accepted.

**MIDTERMS AND FINAL EXAM:** Midterms will be at 6:15-7:30pm on three specific evenings during the semester. Tests will be taken in-person. You will have 75 minutes to complete each test. You are not permitted to use any electronics during the testing period, including calculators, cellphones, or smart watches. The dates for the tests are:

TEST 1: Wednesday, February 8.

TEST 2: Thursday, March 16.

TEST 3: Tuesday, April 11.

The final exam is cumulative. It will be given during the week of May 1-5. The final exam schedule will be available on February 13. The filing period for a final exam conflict is February 13-March 5.

**If you must miss a test, you should contact me before the test or, if it is an emergency, within 24 hours of the test period. You must have a valid excuse and written evidence of it to be allowed to make up the test.** For more information on conflict and makeup exams, see the appropriate section in the Math 141 Course-wide Syllabus.

**CLASS POLICIES:**

- This course is committed to the Penn State Academic Integrity Policy, the Penn State Title IX (Harassment) Statement, and the Penn State Student Disabilities Resources Statement, as per the MATH 141 General Syllabus.
- If you are registered or plan to register with the [Student Disability Resources](#), it is your responsibility to turn the appropriate forms in to both me and Kyrsten Murphy ([kml5346@psu.edu](mailto:kml5346@psu.edu)), the Math Exam Coordinator, in a timely manner (at least one week before the first test).

- The course coordinators for MATH 141 are Joe Roberts, David Nieves, and Lisa Melanson ([math141coord@psu.edu](mailto:math141coord@psu.edu)). I would appreciate if you come to me first with questions or concerns, but they may need to be involved in some situations.
- You can find all MATH 141 course information and sample problems at <https://science.psu.edu/math/undergraduate/courses/course-information>.
- You will receive reminder announcements at least weekly regarding due dates and other important information. Please check your Canvas announcements often, as that will be my main method of correspondence.
- This is a supplement to the course-wide syllabus for MATH 141 which is specific only to the listed sections. In the event that conflicting information has been presented herein, the general course syllabus holds precedence over this section syllabus.