

MATH 190: Calculus I

Spring 2017

Section DA: Mondays & Wednesday from 9:10 – 11:10 am in 307 Academic Hall

Instructor: Matt Pascal

Office: 604 Academic Hall

Email: mpascal@pointpark.edu

Website: <http://facstaff.pointpark.edu/mpascal>

Office Hours: Mon – Thur, 11:20 – 12:50

Course Website: <http://facstaff.pointpark.edu/mpascal/190.html>

Course Materials: You are required to purchase a copy of Calculus (10th ed.) by Larson and Edwards
[ISBN 9781285057095]

Policy Issues: All make-up, and other related issues should be directed to the course instructor. See contact information above. Make-ups may be granted with prior notification for legitimate reasons.

Course Content: In this course, you will be exposed to *functions* and *limits*, the *derivative and its significance*, *differentiation of algebraic functions*, *applications to rate of change and optimization problems*; the *integral*, *area*, *averages* and *elementary integration techniques*.

Course Objectives: Students who succeed in Math 190 will be able to . . .

- (1) Identify and evaluate functions.
- (2) Understand and evaluate limits.
- (3) Define and interpret the significance of the derivative.
- (4) Evaluate the derivative of algebraic functions.
- (5) Solve optimization and rate of change problems using the derivative.
- (6) Define and interpret the significance of the integral.
- (7) Evaluate integrals using elementary integration techniques.
- (8) Calculate area and averages using integration.

In this course, students will NOT be using calculators on quizzes or exams.

Methods: Multiple forms of assessment will be used to measure your progress in understanding statistics.

- **Quizzes/Exams:** There are frequent quizzes in this course. You will be given the chance to ask questions before quizzes. Quizzes cannot be made up though your two worst quiz grade will be dropped when your course grade is computed.
- **Group problems,** facilitated by the instructor, will be completed and submitted in nearly every class. When group assignments cover two class sessions, the problems will be submitted twice. Your two worst group activity grades will be dropped before computing your course grade. Groupwork cannot be made up.
- **Final Exam:** The final exam will cover all content from the course. The final exam schedule is made by the University and will be announced later in the term.

Academic Integrity: *Scientists and engineers must represent their work clearly, completely, and honestly. Taking credit for another's work or failing to take responsibility for one's own work is reprehensible conduct that violates the public trust and invites professional, social, and financial ruin.*

Just as violation of a professional code of conduct can have severe consequences in a professional setting, violation of the standards of academic integrity in this course will have severe consequences. A student who gives or receives unauthorized assistance on graded work, or plagiarizes another's work in any way in this course will receive an automatic grade of F for the term. The instructor will impose this penalty after due consideration of all available evidence and after a formal or informal hearing with the student involved. Students may appeal the instructor's decision according to published University policy.

Policy on Students with Disabilities: All campus accommodations are coordinated through the Center for Student Success, located on the 5th floor of West Penn Hall (412- 392-8153). Students are responsible for contacting the Center for Student Success for specific information on the University's ADA policy and the procedures for verifying disabilities and requesting reasonable accommodations.

Evaluation: Your course grade will be computed using the following distribution:

Assessment		Portion of Grade
Quizzes	(total of 10 @ 4 points each; two dropped)	32%
Group Activities	(15 assignments @ 2 points each)	32%
Exams	(total of 2 @ 10 points each)	20%
Comprehensive Final	(16 points)	16%

GRADING SCALE: 89.5% is the lowest A, 79.5% the lowest B, etc.

Math 190 Course Schedule – Spring 2017					
Week	Day	Content	Quiz	Group	Exam
1/10 – 12	Tue	1.1 – 1.2		G1	
	Thur				
1/17 – 19	Tue	1.3 – 1.4	Q1	G2	
	Thur				
1/24 – 26	Tue	1.5 – 2.1	Q2	G3	
	Thur				
1/31 – 2/2	Tue	2.2 – 2.3	Q3	G4	
	Thur				
2/7 – 9	Tue	2.4 – 2.5	Q4	G5	
	Thur				
2/14 – 16	Tue	2.6	Q5	G6	
	Thur	Catch-up		G7	
2/21 – 23	Tue	Review		G8	Ex1
	Thur				
2/28 – 3/2	Spring Break				
3/7 – 9	Tue	3.5 – 3.7		G9	
	Thur				
3/14 – 16	Tue	4.1 – 4.3	Q6	G10	
	Thur				
3/21 – 23	Tue	4.4 – 4.5	Q7	G11	
	Thur				
3/28 – 30	Tue	Review	Q8	G12	Ex2
	Thur				
4/4 – 6	Tue	5.1 – 5.2		G13	
	Thur				
4/11 – 13	Tue	5.3 – 5.4	Q9	G14	
	Thur				
4/18 – 20	Tue	5.5	Q10	G15	
	Thur	Review			
4/25 - 27	TBA				FINAL

Please note that the instructor may modify this schedule as appropriate during the semester.

If modifications are made then students will be notified via email and will be linked to an updated electronic version of this document

Suggestions on how to succeed in Calculus:

- Come to office hours. But, to make the best use of our time, bring with you some problems you've been working on.
- Make friends. Your classmates can often explain the problem clearly since they have been working on the same concepts.
- Read the textbook sections in advance of class, and then again after class. Take note of anything in the text that you do not fully understand, and ask about it in class or in office hours.
- Don't just do the assigned problems. Do many, many more. If you are experiencing difficulty with the in-class problems, try some of the book problems to get you warmed up. There are solutions for every odd problem from the section exercises, and all problems from the Chapter Reviews and Chapter Tests.
- On an average, you should expect to spend a minimum **eight hours per week** outside of class time working on this class. If you are spending more, then you may need to seek help. If you need help, try contacting your instructor, either via email or in office hours. A few well asked questions may clarify the problem.
- Further help is available to you at the Center for Student Success (call 412-392-8153, or go to the 5th floor of West Penn).

PDE STATEMENT:

Math – Knowing the Content

I.D. Concepts of Calculus including:

- Differential and Integral Calculus
- Methods of Integration