Math 122 Spring 2019-20

It is the prerogative of the Math 122 team to change the course during the term at our discretion. Any changes will be communicated via Blackboard, so be sure to check it frequently. Course announcements, assessment information, and other details will be regularly posted to Blackboard. You are expected to be fully aware of the following policies and expectations, so review this information carefully and ask your instructor if you have further questions.

Prerequisites

Students entering Math 122 are expected to have completed and passed Math 121 or its equivalent. If you earned a D in Math 121, you should consider retaking it. Any questions regarding your readiness for the course should be resolved immediately.

Faculty

Daryl Falco (coordinator)	Sections 001, 003, 004, 007	dlf25@drexel.edu
Joel Pereira	Section 006	jp3465@drexel.edu
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Course Description and Expectations

The subject matter of the course is integration of single-variable functions, including various integration techniques and applications. Upon successful completion of Math 122, you should be able to

- Understand the Fundamental Theorem of Calculus and how it relates differentiation and integration.
- Demonstrate a proficiency in various integration techniques - such as: substitution, parts, and partial fractions.
- Understand the definition and interpretations of the definite integral.
- Use the definite integral to solve physical problems, such as: area, volume, arc length of a planar curve, and work.
- Demonstrate knowledge of a polar coordinate system, including the techniques and applications for differentiating and integrating polar functions.

Calculator

The use of a scientific calculator is allowed for this course. Graphing calculators, cell phones, smart watches, and other such devices are not permitted.

Textbook

We do not require that you purchase any particular calculus textbook. However, we do recommend that you have a calculus book or electronic resource available to use as a supplemental reference to the material discussed in lecture.

Our calculus courses will loosely follow the order of **Calculus: Early Transcendentals**, 10th edition, by Howard Anton.

Other textbooks, e-books, and old editions are also acceptable resources.

Webwork

Webwork is a free, web-based, online homework system. To access the Webwork assignments, click on the appropriate link in Blackboard. Each week, there will be Webwork assignments which will consist of problems relevant to the topics discussed in the lectures. Most assignments will open on a Monday at 8:00 am and will close at least one week later. You are given an unlimited number of attempts at each assignment, until the deadline passes. During the time that the assignment is available, you may click the "Check Answers" button. Webwork will let you know whether or not your answer is correct; if your answer is not correct, you may continue to try again as many times as needed to solve the problem correctly. Once an assignment's deadline has passed, no further attempts may be made. **No make-up assignments will be given & no assignments will be dropped.**

Assigned Practice Problems

Just solving the graded Webwork homework assignments will not give you enough practice to become proficient with the course material; and, as a result, **it is extremely unlikely for you to be successful in the course if your only practice is completing the Webwork assignments.** For each section covered in class we have crafted additional assigned problems which have been chosen to illustrate important concepts and techniques that you are expected to master. These problems can be found at http://www.math.drexel.edu/classes/Calculus/math122.html. They should be worked regularly and in detail. It is only by doing the problems yourself that you will acquire the skills needed for proficiency in the course. It is your responsibility to do the work and look at all of the problems. These problems will not be turned in or graded.

Tutoring Services

Students can receive extra online assistance from the Math Resource Center (MRC). Teaching assistants will work with students via Zoom. Spring tutoring will begin on Tuesday, April 7. Hours and more details can be found at:

http://drexel.edu/coas/academics/departments-centers/mathematics/math-resource-center/

Assessments

There will be three 50-minute assessments during the term. Each assessment will cover about two to three weeks' worth of material. Students will take assessments at their scheduled class time via Blackboard. Dates for the assessments are as follows:

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Assessment 1: Thursday, April 23
Assessment 2: Thursday, May 14
Assessment 3: Thursday, May 28

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An announcement about the coverage of each assessment will be posted to Blackboard about one week prior to the assessment date.

There will be a cumulative two-hour final exam scheduled during Final Exams Week (Monday, June 8 - Saturday, June 13). The exact date and time is to be determined by the registrar. **You are expected to take the exam at the time scheduled by the registrar.**

The assessments and the final exam will consist of multiple choice and short answer questions. Besides a scientific calculator, students may not use any notes, books, or additional resources, offline or online. Failing to adhere to these instructions will be considered a violation of the university's academic integrity policy.

In general, **makeups will be not be offered.** If you have any exceptional circumstances, **backed by the appropriate documentation**, that you believe will interfere with an assessment, you must get in touch with your instructor to resolve the conflict.

Course Grading

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Webwork   46%
Assessment 1 12%
Assessment 2 12%
Assessment 3 12%
Final Exam   18%

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Course grades will be rounded to the nearest whole number. Letter grades are based on the course grade as follows:

A+	$97 - 100$	B+	$87 - 89$	C+	$77 - 79$	D+	$65 - 69$
A	$93 - 96$	B	$83 - 86$	C	$73 - 76$	D	$60 - 64$
A-	$90 - 92$	B-	$80 - 82$	C-	$70 - 72$	F	$0 - 59$

There are no extra credit opportunities either during or after the term.

Disabilities and Accommodations

Students requesting accommodations due to a disability at Drexel University need to request a current Accommodations Verification Letter (AVL) in the ClockWork database before accommodations can be made. These requests are received by Disability Resources (DR), who then issues the AVL to the appropriate contacts. For additional information, visit the DR website at drexel.edu/oed/disabilityResources/overview/, or contact DR for more information by phone at 215.895.1401, or by email at disability@drexel.edu.

Academic Honesty

Cheating and other forms of academic misconduct are serious offenses and are dealt with harshly, e.g. at the very least a 0 on an assessment and a letter sent to the Office of Student Conduct. Students should be familiar with the following policy:

http://drexel.edu/provost/policies/academic-integrity/

Course Drop & Withdrawal Policies

Students should be familiar with the following policies:

http://www.drexel.edu/provost/policies/course_drop.asp
http://drexel.edu/drexelcentral/courses/adjustments/course-withdrawal/

Appropriate Use of Course Materials

It is important to recognize that some or all of the course materials provided to you may be the intellectual property of Drexel University, the course instructor, or others. Use of this intellectual property is governed by Drexel University policies, including the policy found here: https://drexel.edu/it/about/policies/policies/01-Acceptable-Use/.

Briefly, this policy states that course materials, including recordings, provided by the course instructor may not be copied, reproduced, distributed or re-posted. Doing so may be considered a breach of this policy and will be investigated and addressed as possible academic dishonesty, among other potential violations. Improper use of such materials may also constitute a violation of the University's Code of Conduct found here: https://drexel.edu/cpo/policies/cpo-1/ and will be investigated as such.

Course Schedule and Important Dates

Week	Material	Announcements
1 April 6	Area as a Limit & Sigma Notation The Definite Integral	
2 April 13	The Indefinite Integral The Fundamental Theorem of Calculus	
3 April 20	Integration by Substitution Substitution with Definite Integrals	Assessment 1 Thursday, April 23
4 April 27	Area Between Two Curves Volumes by Slicing	
5 May 4	Length of a Plane Curve Work	
6 May 11	Integration by Parts Integration by Partial Fractions	Assessment 2 Thursday, May 14
7 May 18	Improper Integrals Integrating Trigonometric Functions	Withdrawal deadline Friday, May 22
8 May 25	Parametric Equations; Tangent Lines & Arc Length for Parametric Curves Polar Coordinates	University Holiday Monday, May 25 Assessment 3 Thursday, May 28
9 June 1	Tangent Lines, Arc Length, & Area for Polar Curves	
Finals Week June 8 - 13		You are expected to take the final exam at the date and time assigned by the university registrar.

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