#### **Study Group's Information:**

Study Group Member's Name	Phone Number	E-mail Address

#### **General Course Information:**

- A. MATH 182: Calculus II, CRN 32443, 4 credits.
- **B. Prerequisites**: A grade of C or better in MATH 181, appropriate score on mathematics assessment test, or consent of department. Assessment levels: EN101/101A, RD120.
- C. Course Description: A continuation of MATH 181; intended primarily for students of the physical sciences, engineering, and mathematics. Further differentiation and integration of transcendental functions. Methods of integration with applications, indeterminate forms, improper integrals, Taylor's formula; infinite series; polar coordinates. 4 credits / 5 hours. MATH182 fulfills a General Education Program Mathematics Foundation requirement. For more information, please see the general education website.

D. Course Format: This course meets Monday, Wednesday, and Friday at 11:00 am-12:25 pm for lecture. There is a Blackboard page for this course. The Blackboard page will be used to post course documents. Information about Blackboard Technical Support can be found at\_

<u>http://cms.montgomerycollege.edu/EDU/Department2.aspx?id=9356</u>. If you need technical assistance with College-supported IT resources, you can reach the Montgomery College IT Service Desk at 240-567-7222.

#### Common Course Student Learning Outcomes:

Course outcome can be found on following link: https://cms.montgomerycollege.edu/EDU/Department2.aspx?id=34892

## **Textbook and Supplies:**

- A. Textbook (Optional): *Single Variable Calculus: Concepts and Contexts* (4th edition), by James Stewart, Brooks-Cole, 2007. You do not need to purchase a hard copy of this textbook as it comes with the online homework system as an e-book.
- **B.** WebAssign (Required): an online course/homework system. We will use an enhanced version of WebAssign that is customized to work specifically with our textbook, and even includes an e-book of the textbook. You can purchase WebAssign access directly from www.webassign.net or from the publisher at www.cengagebrain.com.
- **C. Calculator:** A graphing calculator like TI 83 or TI 84 are allowed. You may not use any CAS calculator like TI 89 in the exams. Cell phone use is not allowed in any of the exam or quiz.

## **Course Requirements:**

A. Homework: Enhanced WebAssign will be used for the online homework. The course key is montgomerycollege 1526 2490

## B. Quizzes/classwork

We will have short weekly quizzes in class. Quizzes are closed book, closed note, and closed all other resources unless otherwise stated. Your lowest quiz grade will be dropped at the end of the semester.

**C. Exams**: We will have two in-class exams and a comprehensive 2-hour final exam (see schedule for dates). The final exam will be in our usual classroom. Each exam will be closed book, closed note, and closed all other resources unless otherwise stated. The final exam review package can be found on the following link:

## http://cms.montgomerycollege.edu/EDU/Department2.aspx?id=34892

In class extra credit activities, quizzes, exams and final exam cannot be made up. NO EXCEPTIONS. If a student misses an exam due to a documented emergency, then the final exam grade may replace that missing grade. The lowest quiz and the lowest homework score will be dropped. If you come late to class, you will not receive any extra time.

## **Course Grade Breakdown**

Homework	10%
Quizzes	20%
Exams	45%
Final Exam	25%

#### **Course Grading Scale**

90-100%	Α
80-89%	B
70-79%	С
60-69%	D
<60%	F

\*\* Final grades will be rounded to the nearest whole number. For example, if a student has a final grade of 79.47, this final grade rounds to a 79 and he/she receives a C for the course. If a student has a final grade of 79.51, this final grade rounds to an 80 and he/she receives a B for the course.

## Student code of conduct

- A. Standards of the college behavior: Students are expected to adhere to the student code of conduct. <u>http://cms.montgomerycollege.edu/mcsyllabus/</u>. A disruptive student may be asked to leave the class.
- **B.** Academic honesty: Students are expected to adhere to the student code of conduct.\_ <u>http://cms.montgomerycollege.edu/mcsyllabus/</u> .If a student is caught cheating on any assignments, he or she will get zero for that assignment. If a student is caught cheatingmultiple times in the semester, he or she may receive a grade of F.

## **College wide Policies and Procedures**

A. Attendance Policy: Students are expected to attend all class sessions. In cases involving excessive absences, the instructor may drop the student from the class. An excessive absence is defined as one more absence than the number of classes per week during a fall or spring semester; the number of absences is prorated for accelerated sessions.

- **B.** Withdrawal and Refund Dates: It is the student's responsibility to check important drop dates for your courses on MYMC and withdraw/drop accordingly. Non-attendance of classes or failure to pay does not constitute official withdrawal.
- **C. Audit Policy:** All students registered for audit are required to consult with the instructor before or during the first class session in which they are in audit status, and students are required to participate in all course activities unless otherwise agreed upon by the student and instructor at the time of consultation. Failure to consult with the instructor or to so participate may result in the grade of "W" being awarded. This action may be taken by the instructor by changing the "AU" to "W" before the drop with "W" date.

http://www.browsealoud.com/page.asp?pg\_id=80096.

- E. Veterans Services: If you are a veteran or reserve status and you are interested in information regarding opportunities, programs and/or services, please visit the link\_ http://cms.montgomerycollege.edu/mcsyllabus/
- F. Delayed Opening or Closing of the College : If a class can meet for 50% or more of its regularly scheduled meeting time OR if the class can meet for 50 minutes or more, it will meet. Montgomery College will always operate on its regular schedule unless otherwise announced. Depending on the nature of the incident, notifications of emergencies and changes to the College's operational status will be communicated through one or more communication methods including the College's website www.montgomerycollege.edu and student email through the MyMC Portal. For the most up-to-date information regarding College openings, closings, or emergencies, all students, faculty, and staff are encouraged to sign up for email and text alerts via Montgomery College ALERT. Registration information is available at\_
  www.montgomerycollege.edu/emergency. If class is cancelled on the day of a quiz/exam, that quiz/exam will be given in the next class period.
- **G. Communications:** The Montgomery College e-mail account is the official means of communication between the instructor and the student. It is your responsibility to routinely check your MC e-mail for College and class information. Some items you may find there are: course announcements, invoices, important admission/registration information, waitlist status. To check

your e-mail, log into your MyMC online account and locate the e-mail icon in the upper right hand corner of the page. It is recommended that you check your email daily, especially before coming to class.

#### **Additional General Information:**

- **A. Syllabus Changes:** The instructor reserves the right to make changes to this syllabus to provide the best educational experience for the student. Changes will be announced in class.
- **B.** Blackboard Course Page:

**Getting Started:** Login to Blackboard using the following steps: Log in to MyMC. Click on the Blackboard icon in the upper right-hand corner. Click on the course title, "MATH 182".

Once you are in the course Blackboard site, read through the Start Here module (which can be found under Course Content on the course menu). The Start Here module will explain how you can use the Blackboard page for this course.

# Some important links for students: http://cms.montgomerycollege.edu/mcsyllabus/ https://cms.montgomerycollege.edu/EDU/Plain2.aspx?id=4162

Class #	Date	Торіс	Text
1		Intro and FTC	5.4
2		Substitution	5.5
3		Integration by Parts	5.6
4		Integration using Tables and CAS	5.8
5		Trigonometric Integrals and Trig Sub	5.7
6		Partial Fractions	5.7
7		Approximate Integration	5.9
8		Improper Integrals	5.10
9		Review	
10		Review	
11		Areas & Volumes Lecture	6.1 - 6.3
12		Areas & Volumes Lecture	6.1 - 6.3
L			

#### Tentative Schedule: May be subject to changes

MONTGOMERY COLLEGE – GERMANTOWN CAMPUS

# Department of Mathematics and Statistics

	Areas & Volumes Lab	6.4 - 6.5
13	Areas & Volumes Lecture	
	Areas & Volumes Lab	6.1 - 6.3
	Arc Length, Surface Area,	6.4 - 6.5
14	and Average Value	6.4 - 6.5
	Arc Length, Surface Area, and Average Value	6.6 - 6.8
15	Selected Applications	
16	Arc Length, Surface Area,	64-65
	and Average Value	66 68
	Selected Applications	0.0 - 0.8
17	Exam 1 Review	
18	Exam 1	
19	Direction Fields and Euler's Method	7.2
20	Modeling with Differential Equations	7.1
21	Separable Equations	7.3
	Separable Equations Lab	7.3
22		7.4
23	Exponential Growth and Decay	7.3
	The Logistic Equation	7.4
24		7.5
25	Predator-Prey Systems	7.6
26	Review	
27	Review	
28	Sequences and Series	8.1 - 8.2
	Sequences and Series	8.1 - 8.2
29	Convergence Tests and Estimating Sums	8.3 - 8.4

MONTGOMERY COLLEGE – GERMANTOWN CAMPUS	Department of Mathematics and Statistics	6
30	Sequences and Series Convergence Tests and Estimating Sums Convergence Tests and Estimating Sums Power Series	8.1 - 8.2 8.3 - 8.4 8.3 - 8.4 8.5
32 33	Convergence Tests and Estimating Sums Power Series Functions as Power Series	8.3 - 8.4 8.5 8.6
34       35	Taylor and Maclaurin Series Taylor Polynomials	8.7
36 37 38	Exam 2 Review Exam 2 Polar Coordinates	H.1 - H.2
39	Polar Coordinates	H.1 - H.2
40 41 42	Final Exam Review	H.1 - H.2
	Final Exam Review	
	10:15 am-12:15 pm	

The professor reserves the right to make changes to this syllabus.