



Applied Calculus II

Math 1586-001 || CRN: 21680 || Spring 2018

Instructor: Dr. Tom Cuchta (call me Tom)
Time: MWF 9:00-9:50 and R 3:00-3:50
Location: MWF HHH 305 and R ET 113
E-mail: tcuchta@fairmontstate.edu
Office hours: My current office hours are posted on my website <http://tomcuchta.com>. They may change throughout the semester without notice. Alternative office hours may always be scheduled via e-mail.
Office: ET 423
Class Webpage: All assignments will be posted to our class webpage: <http://tomcuchta.com/teach/classes/2018/MATH-1586-Spring-2018-FairmontState/>
 Your grades will be recorded in Moodle.

Textbook: none
Course Description: A continuation of the study of calculus as applied to science, business, technology and social science. The integral will be further studied, including applications of area, volume, accumulation functions, curvilinear motion, solutions to some simple differential equations and other applications chosen from a variety of disciplines. Students will examine sequences and series involving convergence and divergence, power series and Taylor polynomials and series. The calculus of vectors and multivariable functions will be introduced and partial derivatives and multiple integrals will be used to study applied problems from a variety of disciplines.

(Pre/Co)requisites: PR: MATH 1185 or MATH 1585.

Calculator policy: Only the provided calculators may be used on exams.

Attendance policy: Every class meeting should be attended by the student in its entirety, but attendance itself will not be recorded for a grade. If a class is missed, it is the *student's responsibility* to find out what was missed and to pick up any returned work.

Homework: There will be numerous assignments that are regularly assigned. Random problems from each assignment will be graded on a scale of 10 points. Completion may constitute part of a homework grade. Only the top 10 homework scores earned will count towards the final grade.

In-class Work: There will be in-class work that will count for a total of 50 points for your final grade. In-class work may not be made up, *even for excused absences*.

Exams: There will be three one hour exams in this course each worth 100 points. See the calendar below for exam dates.

Final exam: The final exam will be comprehensive and will be worth 200 points.

Make-up exam policy: If an exam is to be missed due to an excused absence (as defined in the student handbook), then it is the *student's responsibility* to arrange an alternative time to take the exam at least one week before the exam is given. In such a case, the student will complete an equivalent exam at an alternate time *before* the normal exam time. If the student misses an exam due to an unexcused absence, the exam may be replaced with the percentage earned on the final exam. The unexcused absence policy applies *only once*, so further exams missed due to unexcused absences will yield a score of zero.

Extra credit policy: Extra credit opportunities may be available throughout the course and will be announced through the usual channels. Points earned through extra credit will be simply added to the final score earned by homework and exams.

	Homework	100 points	Grade	Point Range
Grading policy:	Quizzes	50 points	A	$700 \leq \text{Points Earned} \leq 630$
	Labs	50 points	B	$560 \leq \text{Points Earned} < 630$
	Hour exams	300 points	C	$490 \leq \text{Points Earned} < 560$
	Final exam	200 points	D	$420 \leq \text{Points Earned} < 490$
	Total points:	700 points	F	$0 \leq \text{Points Earned} < 420$

- Tutoring assistance:** See Fairmont State's tutoring services at <http://www.fairmontstate.edu/academics/tutoring-services>
See Pierpont's tutoring services at <https://pierpont.edu/ac/campuslife/support/tutoring>
- Student handbook:** <http://www.fairmontstate.edu/publications/campushandbooks/studenthandbook/default.asp>
- Disability support services:** Disability services are available to any student, full or part-time, who has a need because of a documented disability. It is the *student's responsibility* to register for disability services and to provide any necessary documentation to verify a disability or the need for accommodations. Students must provide their professors with a copy of their academic accommodation letter each semester in order to receive accommodations. Faculty, students, and the Office of Disability Services must cooperate to ensure the most effective provision of accommodations for each class.

The Office of Disability Services is located in suite 316 of the Turley Student Services Center. For additional information, please call (304) 333-3661.

Math 1586-001 Calendar Spring 2018

Week	Sections
15 Jan – 19 Jan	NO CLASS - MLK Day (15 January)
22 Jan – 26 Jan	
29 Jan – 2 Feb	
5 Feb – 9 Feb	<i>Review day</i> (7 February) EXAM 1 (9 February)
12 Feb – 16 Feb	
19 Feb – 23 Feb	
26 Feb – 2 Mar	
5 Mar – 9 Mar	<i>Review day</i> (7 March) EXAM 2 (9 March)
12 Mar – 16 Mar	SPRING BREAK
19 Mar – 23 Mar	
26 Mar – 30 Mar	NO CLASS - Spring Holiday (30 March)
2 Apr – 6 Apr	
9 Apr – 13 Apr	
16 Apr – 20 Apr	<i>Review day</i> (18 April) EXAM 3 (20 April)
23 Apr – 27 Apr	
30 Apr – 4 May	
7 May – 11 May	FINAL EXAM (9 May, 8:00 AM)