

MATH 211 102

MATH 211 - CALCULUS FOR APPLICATIONS

Fall 2020 Syllabus, Section 102, CRN 3863

Times and Location

TTh 5pm-6:15pm (8/24 to 12/14)

Online Synchronous

Instructor Information

Brian Ray

Adjunct Instructor

Email: bdray@towson.edu

Office Hours: Tuesdays and Thursdays 4:25 - 4:55 PM

Cell Phone: 443-364-8625

Final Exam

Information on the final exam can be found at <https://www.towson.edu/registrar/calendars/exams.html>.

Saturday December 12 - 12:30PM - 2:30PM

Course Description

Intended primarily for students in biology, business, economics, psychology and the social sciences. Elements of differential and integral calculus from an intuitive standpoint with emphasis on the use of calculus in the above fields. Exponential and logarithmic functions, partial derivatives included. Not open to mathematics majors or minors. Prerequisite: qualifying score on the Math Placement Test or MATH 115 (recommended) or MATH 119. Core: Mathematics.

MATH 211 Required Materials

Required Text: DA Calculus and Its Applications, 14th ed., by Goldstein, Lay, Schneider, and Asmar, by Pearson Education 2018. ISBN: 9780000001016

Calculator: A graphing calculator is required. A TI-83 or TI-84 is recommended. TI-89, TI-Inspire or equivalent calculators will not be allowed on tests and quizzes.

Webcam: Even though the Coronavirus pandemic means we can't have normal face-to-face class, we would like to build community within our class as much as possible. I want you to see my face, and each other's. It's helpful when I'm attempting to hold a discussion if I can "read" your faces. For this reason, the expectation is that during our online live class meetings is to have your webcam turned on. You are welcome to use a virtual background, as long as it's not distracting. If for any reason, you believe you should be exempt from this expectation, please reach out to me ASAP. I'm happy to discuss the issue, and our meeting will be confidential.

Topics

1. Chapter 0 Functions (0.3 - 0.6)
2. Chapter 1: The Derivative (1.1 – 1.3 and 1.6 – 1.8)
3. Chapter 2: Applications of the Derivative (2.1 - 2.7)
4. Chapter 3: Techniques of Differentiation (3.1 & 3.2)
5. Chapter 4: The Exponential and Natural Logarithmic Functions (4.1 - 4.6)
6. Chapter 5: Application of Exponential and Natural Logarithmic Function (5.1 & 5.2)
7. Chapter 6: The Definite Integral (6.1 - 6.5)
8. Chapter 7: Functions of Several Variables (7.1 & 7.2)

Student Workload Expectations

Federal and State regulations require that students are expected to spend at least two hours of per credit hour for working on course-related activity outside of the classroom. The expectation is for students to spend at least six to nine hours per week outside of the three "hours" of classroom lecture for success in MATH 211.

Examples of activities outside the classroom are: reading the textbook before lecture, rewriting lecture notes, redoing problems presented in class, watching videos on MyMathLab, rereading the textbook, completing assigned homework, completing additional problems to ensure mastery of concepts,

making “flash cards” of important concepts, equations or problems, and preparing for quizzes and tests.

Assessments

Exam #1 25%
Exam #2 25%
Online Homework 15%
Online Quizzes* 10%

*Quizzes may be taken a second time.

Final Exam 25%

Grading Scheme/Policy

Grade	Grade Points Per Unit
A	$93\% \leq x \leq 100\%$
A-	$90\% \leq x < 93\%$
B+	$87\% \leq x < 90\%$
B	$83\% \leq x < 87\%$
B-	$80\% \leq x < 83\%$
C+	$77\% \leq x < 80\%$
C	$70\% \leq x < 77\%$
D+	$67\% \leq x < 70\%$
D	$60\% \leq x < 67\%$
F	$x < 60\%$

Math Tutoring

The Tutoring and Learning Center (TLC) makes tutoring services for this course available on a drop-in basis and by appointment. You can receive tutoring at the Mathematics Lab at 7800 York Road, Room 109. For detailed information, look at the ACC’s website, located at this URL: <https://www.towson.edu/tutoring-learning/>

MATH 211 Policies

Due dates are listed in Pearson – pay careful attention so that you do not miss any due dates

Homework Policies

- Online homework is due at 11:00 pm on Sunday after the material is covered in class.
- You will receive five attempts for each homework problem.

- Homework assignments are not timed, but you may get logged out for long periods of inactivity.
- Incompletes will be entered as zeros after 11:00 pm, and an incomplete on a homework may count as one of your five attempts.
- Homework will be available until the unit exam.
- No additional attempts will be offered on any homework problems, so use your five attempts wisely.

Quiz Policies

- Pearson quizzes are only available until the night before their respective exams.
- You will receive two attempts for each quiz.
- Quizzes are timed, and you will receive 90 minutes for each attempt.
- No additional attempts will be offered on quizzes.
- Submit work for all quizzes on the provided scrap paper “worksheet”. All work should be clear, neat, and placed in the appropriate box for the given problem.

Exam Policies

- There are three exams in this course:
 - Exam 1 covers Foundational Skills - September 18, 2pm
 - Exam 2 covers Calculus Techniques - October 30, 2pm
 - Final Exam covers Application of Calculus - December 12, 12:30-2:30 pm
- Exams are open notes.
- You may not consult/collaborate with other students during exams. These exams must be completed without the assistance of any other person.
- You may not use internet resources to complete exams.
- A violation of these exam policies will result in a report of a violation of the university academic integrity policy.
- Scrap paper for all exams must be submitted within 10 minutes of completing the exam.

Final Exam Policy:

- The final exam will be on Saturday, December 12 from 12:30pm-2:30 pm.
- The Final Exam is open notes.
- You may not consult/collaborate with other students during exams. These exams must be completed without the assistance of any other person.
- You may not use other internet resources to complete exams.
- A violation of these exam policies will result in a report of a violation of the university academic integrity policy.
- Scrap paper must be submitted within 10 minutes of completing the final exam.
- Final Forgiveness: you will have the opportunity to raise your lowest exam score if your score on the final exam is higher. The final exam will completely replace the lowest exam score, provided you score higher on the final. Only one exam will be replaced.

Attendance/Absence Policy

Students are expected to attend all classes. Consistent attendance offers the most effective opportunity for students to understand concepts, materials and expectations of those courses in which they are enrolled. Although some courses do not use attendance as a criterion for grading, there are others where in-class participation is an integral part of the course. Examples include, but are not limited to, seminars and courses that require public speaking, laboratories, language learning, group discussions or internships. Frequent absences from these types of courses, whether excused or unexcused, may affect the final grade. Faculty who use absences as a factor in grading must explain in the course syllabus what effect even an excused absence might have on the evaluation of a student's work.

1. It is the policy of the university to excuse the absences of students for the following reasons:
2. illness or injury when the student is unable to attend class
3. death of a family member (see the Student Bereavement Procedure (<https://www.towson.edu/studentaffairs/policies/documents/bereavement.pdf>) on the website)
4. religious observance where the nature of the observance prevents the student from attending class
5. participation in university activities at the request of university authorities (e.g., Intercollegiate Athletics, Forensics Team, Dance Company, etc.)
6. compelling verifiable circumstances beyond the control of the student

Students requesting an excused absence must provide documentation to the instructor two weeks prior to the scheduled absence when known in advance or as soon as possible when not known in advance. Absences that do not fall into any of the above categories are unexcused. Faculty may set a limit on the number of unexcused absences.

1. Students who will be representing TU at events, conferences, or other official activities should obtain a Notification of Absence from Class Form from the Office of Campus Life, University Union 232, to be given to their instructors to verify the excused absence. Students are encouraged to notify faculty of anticipated class absences as soon as they learn they will be missing class.
2. Students who are absent from class are responsible for any missed work, assignments or assessments (e.g., quizzes, tests, papers, etc.). Faculty members are required to allow students with documented excused absences to make up missed work or assignments when this is feasible. When the nature of the assignment makes this impossible, faculty members should attempt to make a reasonable adjustment of the assignment.
3. Students who fail to appear for the first two class sessions, or the first session of evening classes, may forfeit their space in class. Instructors have the right to release these spaces to other students wishing to add the class to their schedules. Students who lose their spaces must officially withdraw from the course through the Registrar's Office to avoid earning an FX grade for non-attendance. See the sections on Changing a Schedule (<https://catalog.towson.edu/undergraduate/academic-policies/changing-schedule/>) and Grades/Grading (<https://catalog.towson.edu/>)

[undergraduate/academic-policies/grades-grading/](#)) for further information.

Students may not attend a class until they are registered for the class, and they must satisfy all financial obligations to the institution before they register. Family members, including children, of students are not permitted to attend classes. On rare occasions, this might be permitted if related to a course activity such as a presentation.

Academic Integrity Policy

The academic integrity policy for this course is consistent with the TU Academic Integrity Policy. The policy can be reviewed here: <https://www.towson.edu/about/administration/policies/documents/policies/03-01-00-student-academic-integrity-policy.pdf>. (<https://www.towson.edu/about/administration/policies/documents/policies/03-01-00-student-academic-integrity-policy.pdf>)

Mathematics Department Diversity Statement

Department of Mathematics Commitment to Diversity. Towson University values diversity and fosters a climate that is grounded in respect and inclusion. Everyone participating in this course is expected to treat all others in accordance with this vision and policy. TU's diversity tenets include sex, sexual orientation, race and ethnicity, color, nationality, gender identity or expression, mental/physical ability, religious affiliation, age, and veteran status. If you feel these expectations have not been met, please contact the Math Department's Diversity representative, Dr. Goode at egoode@towson.edu.

Students with Disabilities Policy

This course is in compliance with Towson University policies for students with disabilities. Students with disabilities are encouraged to register with Accessibility & Disability Services (ADS), 7720 York Road, Suite 232, 410-704-2638 (Voice) or 410-704-4423 (TDD). Students who suspect that they have a disability but do not have documentation are encouraged to contact ADS for advice on how to obtain appropriate evaluation. A memo from ADS authorizing your accommodation is needed before any accommodation can be made.

<https://www.towson.edu/accessibility-disability-services/>