WAYNE STATE UNIVERSITY

MAT 1800 (Elementary Functions)
Fall 2024

INSTRUCTOR:

Name:	Brielle Komosinski
Email:	brielle.komosinski@wayne.edu
Office:	1244 Faculty/Administration Building

OFFICE HOURS: Tuesdays & Thursdays 3-4pm in my office (1244 Faculty/Admin Building)

- **Additional Resource: *Free WSU Math Tutoring!:** The Mathematics Resource Center is located in room 1198 Faculty/Administration Building and provides individual tutoring in mathematics for free. No appointment is necessary. See this link for hours: Math Resource Center

COMMUNICATION:

Email is my preferred method of communication. I do my best to respond within 24 hours. Please check your email and Canvas regularly as I will post announcements there frequently.

COURSE INFORMATION:

Course:	MAT 1800
Credits:	4
Section Number:	005
Meeting Days:	Tuesday/Thursday
Meeting Time:	4:30pm – 6:10pm
Room Number:	State Hall - Room 1116

Course Details: The goal of this course is to prepare you for calculus. To do this, we will study one of the most important concepts of mathematics: the function.

Course Plan: After some review of background material, we will concentrate on functions. We will define and explore the properties of some of the more famous families of functions: Polynomial, Rational, Exponential, Logarithmic, and Trigonometric.

Course Format: Active flip format. Each class will be a high-powered example session. It is expected that students will complete all assigned problems. The assigned problems not completed during class will continue as HW and will count toward your HW score.

MATERIALS:
You will need the following to be able to participate and be successful in the course:

- **Cell Phone w/ Camera Capabilities**: You must be able to convert pictures into PDF for turning in some assignments.

- **Personal Computer**: You must have a device that can accommodate the deadlines of the course. A computer that must be shared with other people is not recommended.

- **Textbook:** Follow the instructions in the announcement on Canvas to gain access to the e-book and online homework. This will give you access to the eBook and assigned homework. The eBook includes sections from the **8th edition of** *Precalculus: Mathematics for Calculus***, by Stewart, Redlin and Watson. To access Click '_Course Materials_'**

- **Canvas:** The communication tool for this course will be the canvas website. You will find my information and any other important documents (i.e. syllabus) on the canvas website. I will also use this website to post your assignments and test reviews. I recommend students download the Canvas phone application for their convenience**.**

- **A Quiet Environment:** To stay focused for video lessons, you need a space that is personal with no distractions from other people and devices.

PREREQUISITES:
In order to be eligible to take this course you must have:
- Successfully completed MAT 1070 with a grade of "C-" or better in Spring/Summer 2024, Fall 2023 or Winter 2024.
- Received a satisfactory score on the Mathematics Placement Exam taken on or after May 15th, 2023.

If you have not met any of the preceding criteria, then you MUST drop the course.

For refresher topics, please see Mat 1070 Playlist.

ELIGIBILITY FOR MAT 2010:
Receiving a "C-" or better in MAT 1800 allows a student to enter MAT 2010. MAT 2010 must be taken within three semesters of successful completion of MAT 1800 (Winter 2025, Spring/Summer 2025, Fall 2025).

TEXTBOOK COVERAGE:

In the textbook we will cover most of the following sections (with some omissions and additions):

Chapter 1: 1.5 – 1.8 and 1.10
Chapter 2: 2.1 – 2.8
Chapter 3: 3.1 – 3.6
Chapter 4: 4.1 – 4.6
Chapter 5: 5.1 – 5.5
Chapter 6: 6.1 – 6.4
Chapter 7: 7.1 – 7.5

LEARNING OUTCOMES:

After completing this class, students will be able to:

- Conduct procedural computations with polynomial, exponential, logarithmic, and trigonometric functions.
- Apply those functions to model and solve applied story problems.
- Apply their mathematical skills in further mathematics courses, or in their specialized fields of study.
- Develop communication, collaboration, and time management skills.

CODE OF CONDUCT:

This is a college course, and I expect your behavior to reflect that. This means that you should be in the classroom **ON TIME** and for the full class period. Attendance and participation are essential to the continual understanding of the material in this course. Silence and put away all electronic devices (such as phones) as a courtesy to your colleagues and to me. If something in the lecture is not clear, please raise your hand and ask questions. Disruption of class in any form will not be tolerated and any student who violates these rules will be asked to leave the classroom and will not be allowed to return until they have spoken privately with me.

CALCULATORS: Use of calculators will NOT be permitted on quizzes, tests, or the final exam.

ASSIGNMENTS:

- **Lessons (Video Lectures + Quick Checks):**
    This course will make use of pre-recorded video lectures, available through Canvas. These video lectures will be **assigned (for credit)** to be watched <u>before</u> class. The purpose is to equip you with awareness so you come to lecture with some exposure to the topics that will be discussed that day. **It is expected that you complete the "Quick Check" at the end of each lesson (includes submitting a pdf of your work).** Your lowest 6 Quick Checks will be dropped.

- **In-Class Activities:**

    During each Tuesday and Thursday class session, we will work on a class activity, completing practice problems. The purpose of each session is to solidify your understanding of topics you learned during the video lectures and gain confidence and reassurance in the material. There will be a total of 30 sessions. You will need to complete <u>assigned</u> problems as a pdf on Canvas after it has been completed by the end of the next day. Your lowest 4 In-Class Activities will be dropped.

- **Online Homework:**

    Homework assigned on WebAssign. Online homework must be submitted on time. A WebAssign score of 70% is full credit (i.e., 70% on WebAssign → you receive 100% on the assignment). A WebAssign score of less than 70% stays as it is (i.e., 65% on WebAssign → you receive 65% on the assignment).* Your lowest 8 Online Homework assignments will be dropped.

    *<u>NOTE</u>: There is no way to implement this policy in Canvas automatically, so your Online Homework score in Canvas may be lower than your true grade until I manually adjust at the end of the semester.

ASSESSMENTS

- **Quizzes:**

    We will have 11 quizzes. They will take place every Thursday on which there is not a one-hour exam (see below). I will keep the top 9 quizzes, meaning your lowest 2 quiz scores will get dropped. Missed quizzes **may not** be made up.

- **Exams:**

    We will have 3 one-hour exams:
    - **Test 1: Thursday, 9/26/24**
    - **Test 2: Thursday, 11/7/24**
    - **Test 3: Thursday, 12/5/24**

- **Final Exam:**

    The final exam for MAT 1800 is a cumulative, departmental exam. It is scheduled for **December 13th, from 10:15 am until 12:15 pm**. Venue TBA.

    In accordance with department policy, you must earn at least a 50% on the final exam in order to receive a grade higher than a D+ in the course.

GRADING POLICIES:

For **quizzes, exams and the final exam,** points will be assigned for work that justifies the indicated answer**. Partial credit** can be assigned for levels of correctness determined by a standard grading guideline. **Online HW** will be graded for correctness by the WebAssign system through Cengage. **Video Lectures/Quick Checks & In-Class Participation** will be based on satisfactory attempt & completion. It is expected that each student attends office hours to discuss grading with their instructor and to understand content that may have been missed.

GRADES:

Lessons (Video Lectures & Quick Checks)	5%
In-Class Activities	5%
Online Homework	5%
Quizzes	10%
3 In-Class Exams	45%
Final Exam	30%

Grade Appeal Policy:

If you would like to appeal a grade on any homework assignment or exam you will have *one week from the date it was returned to you to do so*. Appeals for anything but incorrect points totaling must be accompanied by a written justification submitted through email. My decision on your appeal will be submitted to you in writing through email.

Final Grades:

All final grades will be calculated according to the weighted percentages indicated on the syllabus. The instructor reserves the right and possesses the discretion to adjust grades taking into consideration a range of factors which includes but is not limited to the following: **attendance, participation, improvement overtime, quality of work, professionalism, etc.**

GRADE SCALE:

93% – 100%	A	73% – 76%	C
90% – 92%	A-	70% – 72%	C-
87% – 89%	B+	67% – 69%	D+
83% – 86%	B	63% – 66%	D
80% – 82%	B-	60% – 62%	D-
77% – 79%	C+	Below 60%	F

UNIVERSITY POLICIES:

Please see the "University Policies" link in the lefthand menu of our Canvas site. Policies & Information include Class Recordings, Religious Holidays, Land Acknowledgement, Student Disability Services (SDS), Counseling & Psychological Services (CAPS), Sexual Misconduct & Title IX (reporting guidelines too), Food Pantry & Basic Needs, Academic Dishonesty, Course Drops & Withdrawals, Student Services (e.g., Writing Center, Academic Success Center & Libraries).