MTH 305 — FUNCTIONS AND CALCULUS FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS

Instructor:	Matthew Lorentz	Email: lo	orentzm@msu.edu	
	Website:	https://	/users.math.msu.edu/u	sers/lorentzm/
Lectures:	1:00-2:20 Tu	e & Thus	Ernst Bessey Hall 113	
Office Hou	irs:		2:30-3:30 Tue & Thus	C318 Wells Hall
(subject to ch	ange)		9:00-10:00 Wed	C318 Wells Hall

Zoom information: For the first three weeks of class (Jan 10-28) we will be meeting over Zoom.

https://msu.zoom.us/j/92830141619 Meeting ID: 928 3014 1619

Materials:

- (i) Developing Essential Understanding of Functions by Cooney, Beckmann, and Lloyd
- (ii) The Art of Mathematics: Ideas of Calculus by Fleron, Hotchkiss, and Renesse

The Art of Mathematics is a digital text available for download at: https://www.artofmathematics.org/books/ideas-of-calculus

Course description: The primary goal of MTH 305 is to discuss functions and calculus needed for understanding connections between topics of calculus and the mathematics taught in middle school.

Prerequisites: Successful completion of MTH 304 or equivalent courses at another institution.

Attendance: All students are expected to attend and participate in each class, discussion session, and exam. A student who misses a class meeting is responsible for any assignments and/or announcements made.

Assessments: We will have 2 in class exams, a take home calculus review exam, a cumulative final exam, and weekly quizzes.

PARTICIPATION / GROUPWORK:	150 points
WEEKLY ACTIVITIES:	100 points
Project:	150 points
QUIZZES:	100 points
TAKE HOME CALCULUS REVIEW EXAM:	100 points
2 In-class Exams, 100 points each:	200 points
Final: May 4th, 10:00 - 12:00	200 points

Attendance on these dates is compulsory; otherwise, a grade of zero will be recorded. Any student who has an excused, documented conflict with an exam time must inform their instructor **within the first two weeks of the semester** when possible. Late requests will either be denied or will result in an automatic deduction from the exam score.

Grades:

The following table gives a minimum grade for each score. For example, an overall score of 830 is guaranteed to earn at least a B grade.

 Grade
 A
 A B+
 B
 B C+
 C
 D

 Score (total points)
 930
 900
 870
 830
 800
 770
 730
 700
 600

Sources of help: All students are encouraged to come to *office hours* to discuss homework questions or material from class. If the advertised times do not suit you, please email me for an appointment.

Academic integrity: All students are expected to abide by the university's Conduct Code. Academic sanctions for dishonesty may include receiving an F in the assignment or receiving an F in the class. There may be additional administrative sanctions. https://ombud.msu.edu/resources-self-help/academic-integrity

Classroom policies: Please refrain from using electronic items, including calculators, cell phones, music players, tablets, laptops, etc., during class, except for note-taking. Please arrive, be seated and ready to start each class on time. If you have a valid reason to leave early, please sit near the exit to minimize disruption.

Resource Center for Persons with Disabilities (RCPD): I am happy to work with you and the RCPD Program, if you need course accommodations due to a disability. RCPD is located in Bessey Hall (https://www.rcpd.msu.edu/services). All course modifications must be arranged through RCPD. You are encouraged to start this process as early as possible.