

MATH 6905 - College Teaching of Mathematics

Fall 2026 Syllabus, Section 01, CRN 42006,

Credit hours: 1

Instructor

Mason Martuccio

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Public Instructor Information

Instructor Title: Mr. Mason Martuccio

Instructor Professional Qualifications:

- Ph.D. (currently pursuing), Mathematics Education, Kent State University
- M.A., Applied Mathematics, Kent State University
- B.S., Mathematics, Youngstown State University

Instructor Office Location: Cafaro Hall 616 & BC0E 2420

Instructor Office Phone: (330) 941-3302

Course Description

6905. College Teaching of Mathematics. Intensive preparation for teaching introductory mathematics and statistics courses, featuring formal instruction and orientation on teaching issues, evaluated presentations, mentored classroom instruction, and weekly teaching seminars. Topics include course design, policies, syllabi, grading, classroom teaching issues, and best practices in mathematics and statistics education at the postsecondary level. Required of graduate assistants in the Department of Mathematics and Statistics and to be taken each semester the student is a graduate assistant. Grading is S/U. Does not count toward credit in the program. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	MAA Instructional Practices Guide	Mathematical Association of America	978-1-61444-325-4
Optional	Guidelines for Assessment and Instruction in Statistics Education College Report 2016	GAISE College Report ASA Committee	
Optional	Teaching American Students Mathematics	Ellen Sarksian	978-0674021419
Optional	A Practical Guide to Cooperative Learning in Collegiate Mathematics	Reynolds et al.	978-0883850954

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Mon	8/24		Introduction to Course; Lesson Planning	
Mon	8/31	MAA CP.1	Productive Struggle; Checking for Student Understanding; Classroom Discussion	Weekly Lesson Plan #1 due at 11:59 pm
Mon	9/7	No Class		

Mon	9/14	MAA CP.2	Creating Group Activities; Cognitively Demanding Tasks	Weekly Lesson Plan #2 due at 11:59 pm
Mon	9/21	MAA AP.1-AP.3	Conceptual vs. Procedural Understanding/ Creating Assessments (Tests/Quizzes); Guest Speaker TBA	Weekly Lesson Plan #3 due at 11:59 pm; Group Activity Assignment due at 11:59 pm
Mon	9/28	See Blackboard	Grading Assessments/Retakes; Guest Speaker TBA	Weekly Lesson Plan #4 due at 11:59 pm; Sample Assessment due at 11:59 pm; Peer Observation due at 11:59 pm
Mon	10/5	MAA XT.1-XT.5	Technology	Weekly Lesson Plan #5 due at 11:59 pm; Grading Sample due at 11:59 pm
Mon	10/12	See Blackboard	Mathematical Knowledge for Teaching (MKT); Student Misconceptions	Weekly Lesson Plan #6 due at 11:59 pm; Technology-Based Activity due at 11:59 pm
Mon	10/19	See Blackboard	Multiple Representations of Mathematical Concepts	Weekly Lesson Plan #7 due at 11:59 pm
Mon	10/26	See Blackboard	Differentiation in the Undergraduate Mathematics Classroom	Weekly Lesson Plan #8 due at 11:59 pm
Mon	11/2	See Blackboard	Writing a Teaching Philosophy	Weekly Lesson Plan #9 due at 11:59 pm; Faculty Observation due at 11:59 pm
Mon	11/9	See Blackboard	Creating a CV; Guest Speaker from STEM Professional Services	Weekly Lesson Plan #10 due at 11:59 pm; Teaching Philosophy due at 11:59 pm
Mon	11/16	See Blackboard	Incorporating History of Mathematics	Weekly Lesson Plan #11 due at 11:59 pm
Mon	11/23	See Blackboard	AI and Mathematics	Weekly Lesson Plan #12 due at 11:59 pm
Mon	11/30		Final Grades	
Mon	12/7		Finals Week - No Class	Teaching Portfolio due at 11:59 pm

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.