

Contact Info

Instructor: Dr. Vicki-Lynn Holmes
Email: holmesv@hope.edu
Note: All correspondence to me must have the course number in the subject line! Thanks.
Telephone number: 616.395.7740 *No calls after 9pm*
Office Hours: Tuesdays and Thursdays - 11:00am - 12:00pm; 2:30pm – 3:00pm, or by appointment
While privacy is not guaranteed, I am generally in the classroom and available for questions before the start of class. For in-depth questions, it would be more advantageous to set an appointment or come to my office during regular office hours.

Catalog Information

Methods of teaching mathematics with emphasis on varied approaches, classroom materials, curriculum changes, and trends in mathematics education. Same as Educ. 323
 Fall Semester Odd Years
The course provides students with a solid platform of pedagogical skills necessary for mathematics secondary instruction.
 Prerequisite: admission to the Teacher Education program. Offered alternate years.

Goals and Objectives

Teaching mathematics through a constructivist, depth of knowledge foundation base
 Connection constructivist and socio- theories in mathematics: Moving from a teacher-centered approach to problem-based approach.
 Exploring what it means to know and do mathematics
 Teaching through problem solving
 Planning in the problem-based classroom
 Building assessment into instruction
 Teaching mathematics equitably to all students
 Using technology to teach mathematics
 Increasing depth of knowledge and depth of pedagogical content knowledge

Required Texts and Course Material

Johnson, D. R. (1982). Every minute counts. Dale Seymour Publications. ISBN 0-86651-081-8
 Teaching Mathematics through Problem Solving (2003). NCTM. ISBN 0-87353-541-3
 Course Pak.

Conceptual Framework / Instructional Methods

Conceptual Understanding : While algorithms (procedural instructions) are a necessary part of mathematics instruction, the ultimate goal of mathematics teaching is to foster understanding of the concepts being taught. The students will not only understand how to accomplish tasks, but why they need to do what they are doing.

Applied theory and Hierarchy : To simulate real world experiences and build on the hierarchical approach, the final project utilizes the stock market. The project allows students to both reflect on and synthesize all material covered as well as produce a technology piece that actively expresses their understanding of rational number concepts/theory.

CFIM (cont)

Instructional Methods : Instructional methods may consist of, but are not limited to, lectures (staff and guest), computer presentations, audio and visual presentations, off site tours (field trips), and both formative and evaluative quizzes / exams.

Instructional Modifications

It is the goal of Hope College to provide an all-inclusive and accepting environment for all persons on the campus. Students who believe they are in need of accommodations should contact the Office of Disability Services, located in the Student Development office in the Dewitt Student and Cultural Center (616) 395-7800 - [Louise Shumaker](#) is the Director.
AMERICANS WITH DISABILITIES ACT: Any student whose disability falls within ADA guidelines should inform the instructor at the beginning of the semester of any special accommodations or equipment needs necessary to complete the requirements for this course. Students must register documentation with the Office of Disability Services and/or Academic Support Center. If you have questions, call Student Development at extension 7800.



Criteria for Determination of Grade

Assignments will be given a letter grade based on the scoring guidelines which accompany each assignment. Your grade will be calculated on a percentage basis (number of points earned out of total number possible).

Assignment	Points	Approx. %
Quiz / Test / Major Exams	350	35%
Journal / Writing Reflections	150	15%
Original Creative Lesson Plans	200	20%
Field Experience / Projects	150	15%
Class (Warm-ups, Classwork)	150	15%
Total	1000	100%
Bonus Points:		
Class Participation	TBA	

Expectations

- Under no conditions will late assignments be collected. Absence is not an excuse.
- Class quizzes must be taken during class time and cannot be made up.
- Homework tests must be turned in at the beginning of the class on the date due. Homework tests will not be accepted after due date.
- E-discussions are closed down after one week.

Courtesy

- Cell phones must be turned off at the beginning of class; one point deduction for classroom disturbance.
- Tardiness and absences will negatively effect grade unless reported to me directly prior to the start of class.

Technology

Web-based / cell technologies will be an integral part of the course. Laptops and cell phones are required. If problematic, student are responsible to make arrangements with the professor within the first week of classes.
 There will be weekly discussions and/or activities on E-Board in which students are expected to participate.
 Continuing and regular use of E-Board is expected and is reflected in the course grade.
 In addition, the final project -- a demonstration of your mastery of the concepts as well as ability to implement them -- must include some form of technology. Examples include but are not limited to audio/visual incorporations, applets, movie-maker, Microsoft producer, an original web site, etc.

Expectation

Academic Honesty

Dishonesty will not be tolerated. It is expected that all work submitted for grading is original, not copied from others, and that the work being graded is indeed done by the student who is receiving the grade.
 Cheating and plagiarism are serious violations of the student conduct code. Cheating or plagiarizing will result in a zero on the assignment or test and may result in suspension, failure in the course, and/or other disciplinary action taken by the College. All incidents of cheating or plagiarizing are reported to the Office of Student Affairs.
Please refer to the academic catalog for a more detailed discussion of Hope's policy on academic integrity

Sum of Points	Final grade	Sum of Points	Final grade
900 –1000	A	600 –699	D
800 –899	B	0 –599	F
700 –799	C		

The sum of all your points awarded is used to derive your final grade in the course. Points and grades are shown below.



Lecture



Hands-on



Visual



groups

A

H

A

!

Moments

brought to you by ... your teacher!



A

H

A

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Moments

brought to you by ... your teacher!

