MTH 125: EVERYDAY COLLEGE MATH

History

1. Dec 3, 2025 by Sera Bird (sabird)
2. Dec 3, 2025 by Sera Bird (sabird)

Viewing: MTH 125 : Everyday College Math
Last approved: 2025-12-03T14:06:03Z
Last edit: 2025-12-03T13:46:34Z
Effective Term
Winter 2026

Rationale and proposal summary
Course update based on assessment report

Course Cover

Full Course Title
Everyday College Math

Transcript Title
Everyday College Math

Subject Code
MTH - Mathematics
Course Number
125

Department
Mathematics Dept (MTHD)

Banner Division
MSE

Division/College
Math-Science-Engineering Tech (MS)

Org Code
12200

Course Description
In this course, students will further their knowledge of mathematical concepts and applications they might encounter in everyday adult life. Students will explore the following topics: investing and borrowing, home loans, student loans, sets, Venn diagrams, functions, probability and statistics. The following outcomes will be addressed: interpretation of mathematical information; representation of mathematical information; calculation and communication of results; application of information, which includes making judgments and conclusions based on quantitative analysis of data; and communication of information, which includes expressing quantitative evidence in support of an argument. Topics to be reviewed or covered include rounding, percentages, decimals, place value, exponents and roots, order of operations, solving equations, evaluating simple formulas, basic inequalities, divisors and reducing fractions, and the coordinate plane.

Has this course been approved for online or online blended?
Yes

Grading method
Standard Letter, Audit, Academic Forgiveness

Occupational Indicator
No

ACS Code
110

Credit hours, contact hours, repeatability

Repeatable for additional credit
No

Course credits
4

Lecture contact hours
60

Total Contact Hours
60

Expected Total Contact Hours
60

Prerequisites and prerequisite skill levels

College-Level Math
Level 3

College-Level Reading and Writing
College-level Reading and Writing

Approved Level I Prerequisite:
Academic Reading and Writing Levels of 6; Academic Math Level 3

Course Assessment Plan
Learning Outcome

Outcome
Perform consumer finance calculations for interest, loans, annuities, and mortgages.

Assessment #1

Assessment Tool
Outcome-related departmental exam questions

Anticipated Next Assessment Year
2028

Anticipated Next Assessment Term
Winter

Assessment Cycle
Every Three Years

Anticipated assessment population
Other

If not including all students from all sections, please provide an estimation of how many students will be included (percentage and estimated number), and how you're planning to ensure representation for all schedule types, delivery methods, full-time and part-time students, all instructors, etc.
A random sample of 25% of students with a minimum of 50 students

How the assessment will be scored
Departmental rubricv

Who does the scoring?
Departmental faculty

Standard of success

70% of students will score 75% (3 out of 4) or higher on the outcome-related questions.

Assessment #2

Learning Outcome

Outcome

Calculate operations on sets and use Venn diagrams to answer questions involving "and", "or", and "not".

Assessment #1

Assessment Tool

Outcome-related departmental exam questions

Anticipated Next Assessment Year

2028

Anticipated Next Assessment Term

Winter

Assessment Cycle

Every Three Years

Anticipated assessment population

Other

If not including all students from all sections, please provide an estimation of how many students will be included (percentage and estimated number), and how you're planning to ensure representation for all schedule types, delivery methods, full-time and part-time students, all instructors, etc.

A random sample of 25% of students with a minimum of 50 students

How the assessment will be scored

Departmental rubric

Who does the scoring?

Departmental faculty

Standard of success

70% of students will score 75% (3 out of 4) or higher on the outcome-related questions.

Assessment #2

Learning Outcome

Outcome

Evaluate and interpret models of linear, quadratic, and exponential functions; use graphs and equations to identify trends and make predictions in context.

Assessment #1

Assessment Tool

Outcome-related departmental exam questions

Anticipated Next Assessment Year

2028

Anticipated Next Assessment Term

Winter

Assessment Cycle
Every Three Years

Anticipated assessment population
Other

If not including all students from all sections, please provide an estimation of how many students will be included (percentage and estimated number), and how you're planning to ensure representation for all schedule types, delivery methods, full-time and part-time students, all instructors, etc.
A random sample of 25% of students with a minimum of 50 students

How the assessment will be scored
Departmental rubric

Who does the scoring?
Departmental faculty

Standard of success
70% of students will score 75% (3 out of 4) or higher on the outcome-related questions.

Assessment #2

Learning Outcome

Outcome
Calculate probabilities including those using addition and multiplication rules; solve probability problems.

Assessment #1

Assessment Tool
Outcome-related departmental exam questions

Anticipated Next Assessment Year
2028

Anticipated Next Assessment Term
Winter

Assessment Cycle
Every Three Years

Anticipated assessment population
Other

If not including all students from all sections, please provide an estimation of how many students will be included (percentage and estimated number), and how you're planning to ensure representation for all schedule types, delivery methods, full-time and part-time students, all instructors, etc.
A random sample of 25% of students with a minimum of 50 students

How the assessment will be scored
Departmental rubric

Who does the scoring?
Departmental faculty

Standard of success
70% of students will score 75% (3 out of 4) or higher on the outcome-related questions.

Assessment #2

Learning Outcome

Outcome
Calculate and interpret statistics, including measures of center and spread, and make predictions based on the normal curve.

Assessment #1

Assessment Tool
Outcome-related departmental exam questions

Anticipated Next Assessment Year
2028

Anticipated Next Assessment Term
Winter

Assessment Cycle
Every Three Years

Anticipated assessment population
Other

If not including all students from all sections, please provide an estimation of how many students will be included (percentage and estimated number), and how you're planning to ensure representation for all schedule types, delivery methods, full-time and part-time students, all instructors, etc.
A random sample of 25% of students with a minimum of 50 students.

How the assessment will be scored
Departmental rubric

Who does the scoring?
Departmental faculty

Standard of success
70% of the students will score 75% (3 out of 4) or higher on the outcome-related questions.

Assessment #2

Course Objectives

	Objective(s)
1.	Solve problems relating to compound interest. Calculate compound interest on savings and annuities and compare earnings from simple versus compound interest.
2.	Solve problems relating to mortgages. Calculate down payment, principal, monthly payment, total interest paid on mortgages, and compute amortization tables.
3.	Find annual percentage interest rate for purchases such as rent-to-own and payday loans.
4.	Solve problems involving "and", "or", and "not" with a Venn diagram.
5.	Calculate Measures Of Central Tendency: mean, median and mode.
6.	Solve problems relating to probability. Calculate probability of events using multiplication and addition rules.
7.	Calculate monthly personal budget amounts under stated criteria.
8.	Calculate compound interest on savings and annuities, and compare earnings from simple versus compound interest.
9.	Calculate measures of spread (variance, range and standard deviation), and use these measures to draw conclusions and comparisons between data sets.
10.	Find z-values for specific data values and probabilities for given z-values and data values.
11.	Use z-values to make decisions about data values.
12.	Calculate conditional probabilities.
13.	Calculate rounded values for financial calculation, including intermediate rounding of calculations where necessary.

14.	Represent information given in a problem with a Venn diagram.
15.	Represent linear and nonlinear models in various ways including tables, equations, and graphs.
16.	Identify the mathematical domain and range of functions, and determine plausibility in context.
17.	Find x- and y- intercepts of functions; interpret and communicate applications of x- and y- intercepts.
18.	Solve problems involving rounding, percentages, decimals, place value, exponents and roots, order of operations, solving equations, evaluating simple formulas, basic inequalities, divisors and reducing fractions, and the coordinate plane.
19.	Employ quantitative reasoning to communicate mathematical solution paths, explain mathematical results symbolically, visually, and/or numerically, and justify quantitative arguments in writing.

General Education Area(s)

Area 1: Writing

No

Area 2: 2nd Writing or Communication/Speech

No

Area 3: Mathematics

Yes

Area 3 Mathematics Applicability

Area 3: Mathematics (AA)
Area 3: Mathematics (AAS)
Area 3: Mathematics (AS)

Area 4: Natural Science

No

Area 5: Social and Behavioral Science

No

Area 6: Arts and Humanities

No

MTA General Education

Yes

MTA Applicability

MTA Mathematics

Review

Is conditional approval requested?

No

Is this course currently conditionally approved, and you are now submitting it for full approval?

Yes

Key: 7437

Washtenaw Community College Comprehensive Report

MTH 125 Everyday College Math
Effective Term: Fall 2021

Course Cover

College: Math, Science and Engineering Tech
Division: Math, Science and Engineering Tech
Department: Math & Engineering Studies
Discipline: Mathematics
Course Number: 125
Org Number: 12200
Full Course Title: Everyday College Math
Transcript Title: Everyday College Math
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Three Year Review / Assessment Report
Change Information:
   Consultation with all departments affected by this course is required.
   Outcomes/Assessment
Rationale: Update based on assessment report
Proposed Start Semester: Fall 2021
Course Description: In this course, students will further their knowledge of mathematical concepts and applications they might encounter in everyday adult life. Students will explore the following topics: investing and borrowing, home loans, student loans, sets, Venn diagrams, functions, probability and statistics. The following outcomes will be addressed: interpretation of mathematical information; representation of mathematical information; calculation and communication of results; application of information, which includes making judgments and conclusions based on quantitative analysis of data; and communication of information, which includes expressing quantitative evidence in support of an argument.

Course Credit Hours

Variable hours: No
Credits: 4
Lecture Hours: Instructor: 60 **Student:** 60
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 60 **Student:** 60
Repeatable for Credit: NO
Grading Methods: Letter Grades
Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Level 3

Requisites
Prerequisite
MTH 097 minimum grade "C"
or Academic Math Level 3
or
Prerequisite
MTH 094 minimum grade "C"
or Academic Math Level 3
or

General Education
MACRAO
 MACRAO Science & Math
General Education Area 3 - Mathematics
 Assoc in Applied Sci - Area 3
 Assoc in Science - Area 3
 Assoc in Arts - Area 3
Michigan Transfer Agreement - MTA
 MTA Mathematics

Request Course Transfer
Proposed For:
   Eastern Michigan University
   Ferris State University
   Grand Valley State University
   Jackson Community College
   Kendall School of Design (Ferris)
   Lawrence Tech
   Michigan State University
   Oakland University
   University of Detroit - Mercy
   University of Michigan
   Wayne State University
   Western Michigan University

Student Learning Outcomes

   1. Perform consumer finance calculations for interest, loans, annuities, and mortgages.
      Assessment 1
         Assessment Tool: Outcome-related test questions
         Assessment Date: Fall 2023
         Assessment Cycle: Every Three Years
         Course section(s)/other population: All sections
         Number students to be assessed: A random sample of 25% of students with a minimum of 50 students
         How the assessment will be scored: Departmental rubric
         Standard of success to be used for this assessment: At least 70% of students will score 75% (3 out of 4) or higher on the outcome-related questions.
         Who will score and analyze the data: Departmental faculty

   2. Calculate operations on sets and use Venn diagrams to answer questions involving "and", "or", and "not".
      Assessment 1
         Assessment Tool: Outcome-related test questions

Assessment Date: Fall 2023
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: A random sample of 25% of students with a minimum of 50 students
How the assessment will be scored: Departmental rubric
Standard of success to be used for this assessment: At least 70% of students will score 75% (3 out of 4) or higher on the outcome-related questions.
Who will score and analyze the data: Departmental faculty

3. Identify and state domain and range; graph and interpret linear, quadratic and exponential functions.

   Assessment 1

   Assessment Tool: Outcome-related test questions
   Assessment Date: Fall 2023
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: A random sample of 25% of students with a minimum of 50 students
   How the assessment will be scored: Departmental rubric
   Standard of success to be used for this assessment: At least 70% of students will score 75% (3 out of 4) or higher on the outcome-related questions.
   Who will score and analyze the data: Departmental faculty

4. Calculate probabilities including those using addition and multiplication rules; solve probability problems.

   Assessment 1

   Assessment Tool: Outcome-related test questions
   Assessment Date: Fall 2023
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: A random sample of 25% of students with a minimum of 50 students
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   Who will score and analyze the data: Departmental faculty

5. Calculate and interpret statistics, including measures of center and spread, and make predictions based on the normal curve.

   Assessment 1

   Assessment Tool: Outcome-related test questions
   Assessment Date: Fall 2023
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Course Objectives

1. Solve problems relating to compound interest. Calculate compound interest on savings and annuities and compare earnings from simple versus compound interest.

2. Solve problems relating to mortgages. Calculate mortgage payments including tax and insurance liabilities and amortization tables.
3. Find annual percentage interest rate for purchases such as rent-to-own and payday loans.
4. Solve problems involving "and", "or", and "not" with a Venn diagram.
5. Calculate measures of central tendency: mean, median and mode.
6. Solve problems relating to probability. Calculate probability of events using multiplication and addition rules.
7. Calculate monthly personal budget amounts under stated criteria.
8. Calculate compound interest on savings and annuities, and compare earnings from simple versus compound interest.
9. Calculate measures of spread (variance, range and standard deviation), and use these measures to draw conclusions and comparisons between data sets.
10. Find z-values for specific data values and probabilities for given z-values and data values.
11. Use z-values to make decisions about data values.
12. Calculate conditional probabilities.
13. Calculate rounded values for financial calculation, including intermediate rounding of calculations where necessary.
14. Represent information given in a problem with a Venn diagram.
15. Represent linear models in various ways: table, equation or graph.

New Resources for Course

Course Textbooks/Resources

Textbooks
    Sobecki. *Mathematics in our World*, 4 ed. McGraw Hill, 2018
Manuals
Periodicals
Software

Equipment/Facilities

Level III classroom

Reviewer	Action	Date
Faculty Preparer:		
Laura Perez	*Faculty Preparer*	*Apr 16, 2021*
Department Chair/Area Director:		
Lisa Manoukian	*Recommend Approval*	*Apr 26, 2021*
Dean:		
Victor Vega	*Recommend Approval*	*May 20, 2021*
Curriculum Committee Chair:		
Randy Van Wagnen	*Recommend Approval*	*Aug 05, 2021*
Assessment Committee Chair:		
Shawn Deron	*Recommend Approval*	*Aug 10, 2021*
Vice President for Instruction:		
Kimberly Hurns	*Approve*	*Aug 17, 2021*