

Welcome to Math 090, College Arithmetic!

Instructor: Elizabeth O'Neil
office: ST-112
e-mail: oneil@olympic.edu (best way to contact me)
phone: 360-475-7774
web: <http://instructors.olympic.edu/ElizabethONeil/default.aspx>

Office Hour: 10:00 – 10:50 daily in ST-112 or whenever my office door is open

Text: *Basic Mathematics*, Marvin Bittenger, 10th Edition.

Calculator: You will need a basic scientific calculator for this course.

Prerequisite: none

Goals: College Arithmetic is designed to provide the mathematical tools which can be used to solve real-life problems and to help provide the background needed for future algebra course work. Issues of “math anxiety”, test-taking difficulties, and study skills for mathematics will also be addressed so that you can gain a better understanding of and appreciation for mathematics and have more confidence in your own ability to interpret and work with mathematical concepts.

Math 090 Student Learning Outcomes: When finished with this course, you should be able to:

- Add, subtract, multiply and divide decimals, fractions and signed numbers.
- State and use formulas for calculating area and perimeter of rectangles, triangles and circles.
- Use English and Metric units in calculating length and area.
- Estimate measurements, computations, and problem solutions.
- Determine the reasonableness of results using a variety of techniques.
- Organize, display and interpret data using charts and tables.
- Choose the appropriate operations in word problems and be familiar with the role variables play in equations.
- Formulate and solve simple and multi-step problems from everyday situations.
- Use a calculator as a tool in problem solving.
- Self assess personal progress and make modifications as necessary to improve learning.

Mathematics Study Center: The Math/Science Study Center is open to all students at no charge. To help you be successful, we encourage you to use the study center as a place to study, get spot help as you need it, and possibly form study groups with other students. The Study Center is open 9:00 AM to 7:00 PM Monday through Thursday and 9:00 AM to 2:00 PM on Friday.

Requirements and Grading: You will be expected to attend regularly, work drill-and-practice exercises, take quizzes, chapter tests, and a comprehensive final exam.

Chapter Tests: There are three (3) chapter tests to take. No calculators are allowed on the first test. You will be given a formula sheet to use on your Chapter 8 & 9 test. Each chapter test is worth 100 points.

Final Exam: The final exam is in two parts. Each part is worth 100 points.

Part I over Chapters 2 through 4 and Chapter 10; no calculator is allowed.

Part II over Chapters 5 through Chapter 9. A calculator is allowed; you will be given the Chapter 8 & 9 formula sheet.

Quizzes: Quizzes will be given once each week. Some of the quizzes may be short in-class quizzes, but most of the quizzes will be take-home problems.

Homework/In-Class Exercises: Please refer to the Homework Assignments list for problems assigned. You will have an in-class exercise sheet for each section; these will be completed in-class in groups. Each week's assignments will be due by the following Monday (or Tuesday if there is a Monday Holiday). Early work is always accepted, and late work is accepted for half-credit. You are strongly encouraged to hand in your work as it is completed to avoid losing points if something unexpected causes you to be absent on a Monday.

Make-Up Policies:

There will be no make-up quizzes. If you miss a quiz, that will be the score that is dropped. If you must miss A TEST, you will need to make prior arrangements. In case of unexpected illness or emergency, e-mail eoneil@olympic.edu or call 475-7774 to leave a message. If you do not contact me, or if the earliest reasonable opportunity to make-up the test has past, you will (probably) not be allowed to make it up.

Grading

Your course grade will be based on the following:

300 points	3 Chapter Tests worth 100 points each
200 points	Comprehensive Final Exam
100 points	Best 10 of 11 Quizzes worth 10 points each
50 points	Homework completion & neatness (answers will not be checked)
<u>50 points</u>	In-Class Exercises completion & neatness (answers will not be checked)
700 points total	

Your percentage grade will be based on the following breakdown of the total: $\frac{\text{your total}}{700} \times 100\%$

The scale for numerical grades will be:

95% = 4.0 85% = 3.0 75% = 2.0 65% = 1.0 55% = 0.0

[Each one percent = 0.1 grade point, with the exception that any percentage under 62%, or 0.7, must be a grade of 0.0 by Olympic College Grading Regulation]

Students must formally withdraw through the Admissions Office to receive the "W" grade. **Your instructor does NOT award the grades of WP or WF except in extraordinary circumstances.**

Classroom Conduct:

If we are aware of ourselves and considerate of each other, we will make a successful learning team. To make this happen, please:

- Share your positive attitude with others.
- Turn off your cell phones before entering the classroom.
- No texting, IMing, listening to iPods, etc. in the classroom.
- Arrive on-time with your homework neatly completed, and ready to discuss the next topic.
- Participate in class discussions and activities.
- Show respect for yourself, your classmates and your instructors.
- Do not pack up your belongings until class is over.
- Come to office hours, if only to say hello.

Additional Notes:

- If you have a documented disability and require any accommodation(s), please contact Access Services at (360) 475-7540.
- If there is any way that I can help you to learn better, please let me know!
- All schedules and procedures are subject to change at the instructors' discretion based on the needs of the class.
- **In case of inclement weather (snow)**, please check the OC web site, <http://www.olympic.edu/>, call the main campus at 360-792-6050 or 1-800-259-6718, or sign up for the alert text-message service at <http://www.olympic.edu/alerts/>
- **In case of fire, earthquake or other emergency:** Proceed to nearest exit and seek to re-assemble at the designated safe area (see classroom posting).
 - Do not leave unannounced and make rescue personnel put themselves at risk in their search for you.
 - Please do not leave the greater campus area without verifying with at least two other people that you have safely left the building or are otherwise out of harm's way.

Learning and sharing, let's have a great Fall Quarter!

Math 090 Schedule

Fall Quarter, 2008

Olympic College

Instructor: Elizabeth O'Neil

	Special Events	Sections Covered
Week 1: 9-22 to 9-26	Welcome & Introductions Counselor visit Quiz 1 received Tuesday, due Friday	Sections 2.1 - 2.4 due Monday, 9-29
Week 2: 9-29 to 10-3	Quiz 2 received Tuesday, due Friday	Sections 2.5-2.7; 3.1 - 3.2 due Monday, 10-6
Week 3: 10-6 to 10-10	Quiz 3 received Tuesday, due Friday	Sections 3.3 - 3.7 due Tuesday, 10-14
Week 4: 10-14 to 10-17	No School Monday (Columbus Day Holiday) Exam 1 Wednesday covers 2.1-3.7 Quiz 4 in-class Friday (in groups – please come to the regular classroom for this quiz even if you receive alternate testing accommodations)	Sections 4.1 - 4.4 due Monday, 10-20
Week 5: 10-20 to 10-24	Quiz 5 received Tuesday, due Friday	Sections 4.5 - 4.7, 5.1 – 5.3 due Monday, 10-27
Week 6: 10-27 to 10-31	Quiz 6 received Tuesday, due Friday	Sections 5.4; 6.1 – 6.4 due Monday, 11-3
Week 7: 11-3 to 11-7	Exam 2 Wednesday covers 4.1-6.6 Quiz 7 in-class Friday (in groups – please come to the regular classroom for this quiz even if you receive alternate testing accommodations)	Sections 6.5 – 6.6; 7.1 – 7.2 due Monday, 11-10
Week 8: 11-10 to 1-14	Quiz 8 received Tuesday, due Friday	Sections 7.3 – 7.4; 8.1 – 8.3 due Monday, 11-17
Week 9: 11-17 to 11-21	No School Tuesday (Veterans Day Holiday) Quiz 9 received Monday, due Wednesday Exam 3 Friday covers 7.1-9.3	Sections 9.1 – 9.3 due Monday, 11-24
Week 10: 11-24 to 11-28	No School Thursday & Friday (Thanksgiving Holiday) Quiz 10 received Monday, due Wednesday	Sections 10.1-10.2 due Monday, 12-1
Week 11: 12-1 to 12-5	Quiz 11 received Tuesday, due Friday	Sections 10.3 – 10.5 Due Tuesday, 12-9
FINAL EXAM: Tuesday, December 9th, 12:00 to 2:00		

MATH 090 Material and Homework Assignments

Text: <i>Basic Mathematics</i> , Marvin Bittenger, 10 th Edition.		
Section	Topic	Problems Assigned
2.1	Factorizations	1- 69 EOO
2.2	Divisibility	1-15 odd
2.3	Fractions	1-19 odd,29-57 EOO
2.4	Multiplication and Applications	1-43 EOO
2.5	Simplifying	1-51 EOO
2.6	Multiplying, Simplifying, and Applications	1-57 EOO
2.7	Division and Applications	1-51 EOO
3.1	Least Common Multiples	1-45 EOO, 49, 51
3.2	Addition and Applications	1-33 EOO,37-45 odd
3.3	Subtraction, Order, and Applications	1-49 EOO, 51-63 odd
3.4	Mixed Numerals	1-53 EOO
3.5	Addition and Subtraction Using Mixed Numerals; Applications	1-57 EOO
3.6	Multiplication and Division Using Mixed Numerals; Applications	1-45 EOO
3.7	Order of Operations; Estimation	1-17 odd,29,31,33-43 EOO
4.1	Decimal Notation, Order, and Rounding	1-89 EOO
4.2	Addition and Subtraction with Decimal Notation	1-57 EOO
4.3	Multiplication with Decimal Notation	1-57 EOO
4.4	Division with Decimal Notation	1-65 EOO
4.5	Converting from Fractional Notation to Decimal Notation	1-57 EOO,61-85 EOO
4.6	Estimating	1-25 EOO
4.7	Applications and Problem Solving	1-7odd, 11-17 odd, 25,27,37
5.1	Introduction to Ratios	1-39 EOO
5.2	Rates and Unit Prices	1-29 EOO
5.3	Proportions	1-45 EOO
5.4	Applications of Proportions	1-33 EOO
6.1	Percent Notation	1-57 EOO
6.2	Percent Notation and Fractional Notation	1-69 EOO
6.3	Solving Percent Problems Using Equations	1-33 EOO
6.4	Solving Percent Problems Using Proportions	1-33 EOO
6.5	Applications of Percent	1-49 EOO
6.6	Consumer Applications: Sales Tax, Commission, and Discount	1-41 EOO
7.1	Averages, Medians, and Modes	1-21 odd
7.2	Tables and Pictographs	1-37 EOO
7.3	Bar Graphs and Line Graphs	1-45 EOO
7.4	Circle Graphs	1-9 odd,13,15
8.1	Linear Measure: American Units	1-35 EOO
8.2	Linear Measure: The Metric System	1-49 EOO
8.3	Converting Between American Units and Metric Units	1-33 EOO
9.1	Perimeter	1-19 odd
9.2	Area	1-19 odd,23,35-49 odd
9.3	Circles	1-29 odd
10.1	The Real Numbers	1-53 EOO
10.2	Addition of Real Numbers	1-69 EOO
10.3	Subtraction of Real Numbers	1-73 EOO,75-83 odd
10.4	Multiplication of Real Numbers	1-57 EOO
10.5	Division and Order of Operations	1-85 EOO