

Cincinnati Christian University
Math 010 01 Developmental Math – Section 1
Fall 2018 | 3 semester non-credit hours
Tuesday/Thursday 8:30 a.m. – 9:45 a.m. Presidents' Hall 250

Instructor: Dr. Julie Bedi	Office Location: PH 267
Email: julie.bedi@ccuniversity.edu	Office Hours: MWF 9:00 – 11:00 TR 11:00 – 12:00

Foster School of Biblical Studies, Arts & Sciences

The mission of Cincinnati Christian University is to teach men and women to live by biblical principles and to equip and empower them with character, skills, insight, and vision to lead the church and to impact society for Christ.

Course Description

Required of those assigned based on test scores. This course is designed to strengthen a student's computational skills. Topics include operations with whole numbers, fractions, decimals, percentages, ratios and proportions, and their practical applications.

Course Rationale

Since some understanding of mathematics will enhance the study of every discipline, as well as develop skill in mathematical reasoning and competence in real world situations, this class will be particularly relevant to an informed and aware Christian citizenry.

Arts & Sciences Departmental Outcomes

CCU's Arts & Sciences program is designed to prepare students to

1. communicate effectively in both oral and written forms in a variety of rhetorical contexts, including Standard English,
2. adeptly utilize modern research and writing tools,
3. identify decisive events and ideas in the human experience and assess their influences on modern culture and thought,
4. employ critical and creative thinking and mathematic and scientific principles for problem solving, literary and socio-cultural analysis, intercultural understanding, and research in the sciences and humanities,
5. demonstrate the integration of academic insights and experiences by constructing and employing a personal framework in which ethical decisions can be made in light of societal values and a Christian worldview.

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Learning Objectives (connected to Arts & Sciences Outcome #4 above):

After completing this course, the student should be able to:

1. Perform the four basic operations on whole numbers, decimals, and fractions.
2. Select and apply appropriate operations in order to solve applied problems.
3. Set up and solve a proportion and/or a percent problem.
4. Translate between fractions, decimals, and percent.

Required Text

Basic Mathematics, Robert H. Prior, Pearson, 2010. ISBN-10: 0321213793

Grading Policy

Letter grades will be assigned based on the published grade point system in the CCU Academic Catalog. Grades will be comprised of the following:

Tests (5 tests at 10% each)	50%
Final Exam	20%
Quizzes (5 quizzes at 4% each)	20%
Homework (5 assignments at 2% each)	10%

Quizzes/Tests/Exam

Quizzes, tests and exams assess whether the objectives are being met. If a student misses a scheduled quiz or test without making prior arrangements with the instructor, it cannot be made up unless the instructor makes an exception. Even then, a penalty may be given. It is the responsibility of the student to take the quiz/test early or schedule a makeup quiz/test date with academic support. There will be one quiz and one test given during each of the five units. The final exam will occur at the end of the semester.

Homework

One homework assignment will be given per unit that encompasses material from the entire unit. It is recommended that students work on the homework throughout the unit so as to self-assess their understanding and reinforce the skills learned in class after each class period. Homework assignments will consist of assigned problems from the textbook, other practice, or problem-solving activities.

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Late Assignments

An assignment will be considered late if it is not submitted by the beginning of the class session on which it is due. 20% will be deducted from the score per day for late assignments. Assignments that are late due to severe illness or an emergency situation *may* be accepted depending on the circumstances. If you find yourself in a situation that prohibits you from turning in your assignment on time, it is in your best interest to address that issue with your instructor **prior** to the due date. Students who are absent because of CCU extracurricular activities should turn in the assignment early when possible or the first day back to class.

Academic Integrity

This class will follow CCU's regulations pertaining to academic integrity. A copy may be found in CCU's Student Handbook.

Disability Services: Students who require academic accommodations due to any documented physical, psychological, or learning disability should request assistance from the Student Services Department within the first two weeks of class. The Student Services Department is located on the upper level of the Presidents Hall. You may also contact the office by phone (513.244.8140).

Attendance

You are expected to attend all class sessions and actively participate in class activities. If you exceed the absentee policy set forth by CCU, it will result in a grade of FA (failure due to absences). If a student is present for less than half of a class period, it is considered an absence.

If you *must* be absent for a CCU extracurricular activity, you will be responsible for e-mailing the professor, in advance, stating why you will be absent, turning in any assignments **prior** to the class, and obtaining any notes or assignment details you missed from Canvas, the professor, and/or other students.

Course Outline

Details regarding assignments and due dates will be announced during class time once week in advance of the due date as well as posted on Canvas. On some assignments or portions of the assignment, (including quizzes, tests, and exams), the use of a calculator may not be permitted if computational skills are being assessed.

The *Basic Mathematics* textbook will be used as the base outline for the course topics.

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Fall 2018 Course Outline*
Day 1: Introduction to Course and Pre-assessment
<p style="text-align: center;">Unit 1: Whole Numbers, Number Sense, and Decimals (Chapters 1 & 5)</p> <ul style="list-style-type: none"> • Place value & rounding (whole numbers & decimals) • Mathematical properties • Adding, subtracting, multiplying, and dividing whole numbers (with application) • Adding, subtracting, multiplying, and dividing decimals (with application) • Basic equations <p style="text-align: center;">TEST #1 & Homework #1 Due</p>
<p style="text-align: center;">Unit 2: Factors and the Order of Operations (Chapter 2)</p> <ul style="list-style-type: none"> • Exponents, square roots • Order of operations • Basic formulas • Factors, prime factorization, common factors <p style="text-align: center;">TEST #2 & Homework #2 Due</p>
<p style="text-align: center;">Unit 3: Fractions (Chapters 3 & 4)</p> <ul style="list-style-type: none"> • Locating fractions on a number line • 0 as numerator and denominator • Mixed numbers, improper fractions • Simplifying fractions • Multiplying and dividing fractions (with application) • Least common multiples/obtaining common denominators • Adding and subtracting like and unlike fractions (with application) <p style="text-align: center;">TEST #3 & Homework #3 Due</p>
<p style="text-align: center;">Unit 4: Ratios, Proportions, and Percent (Chapter 6)</p> <ul style="list-style-type: none"> • Ratios as fractions, cross multiplication • Unit rates, comparing unit prices (with application) • Solving proportions (with application) • Translating between fractions, decimals, and percent • Solving percent problems using equations, proportions, and multiplication (with application, especially taxes, commissions/tips, and discounts) • Determining percent increase/percent decrease (with application) <p style="text-align: center;">TEST #4 & Homework #4 Due</p>
<p style="text-align: center;">Unit 5: Basic Introduction to Branches of Mathematics</p> <p>Measurement/Geometry (Chapter 7)</p> <ul style="list-style-type: none"> • Measures of U.S. and metric length, weight, and capacity (with application) • Overview of lines, points, line segments, rays, and angles • Types of triangles & quadrilaterals, polygons, circles • Calculating perimeter, circumference, area, and volume (with application) <p>Statistics/Probability (Chapter 8)</p> <ul style="list-style-type: none"> • Bar graphs, circle graphs, histograms (with application) • Mean, median, mode (with application)

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- Probability (with application)

Introduction to Algebra (Chapters 9 & 10)

- Evaluating expressions
- Absolute value
- Comparing, adding, subtracting, multiplying, and dividing integers
- Order of operations with integers
- Combining like terms
- Using the distributive property
- Solving one- and two-step equations (with application)

Test #5 & Homework #5 Due

Final Exam (Units 1-5)

**The instructor reserves the right to change or amend any part of this course plan as deemed necessary.*