

Cincinnati Christian University
Math 010 02 Developmental Math – Section 2
Spring 2019 | 3 semester non-credit hours
Tuesday/Thursday 1:30 a.m. – 2:45 a.m. Worship & Ministry 138

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| Instructor: Julie Bedi, PhD EdD | Office Location: PH 267 |
| Email: julie.bedi@ccuniversity.edu | Office Hours: 12:00 – 1:00 daily or by appointment |

Foster School of Biblical Studies, Arts & Sciences

Cincinnati Christian University exists to educate men and women to live by Biblical principles and transformed lives, empowering them with character, skills, insight, and vision to advance the kingdom and impact society for Christ. CCU is committed to providing a Christ-centered, liberal arts education taught with a Christian worldview in students' chosen fields of study.

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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Course 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 and Technology

Foundations of Math by Newton Alta (see supplemental handout regarding this technology)

All students are required to have an online subscription to **Knewton Alta and a calculator.
Phones will not be permitted in class or during tests unless special permission is requested/granted in advance.**

Grading Policy

Students are expected to learn both the mathematics covered in class and the mathematics in Knewton Alta. The two are designed to be supplementary. Completing homework in Knewton Alta is part of the learning experience. Mathematics is learned by doing. Thinking through problems carefully and thoroughly will be emphasized over speed and memorization.

Letter grades will be assigned based on the published grade point system in the CCU Academic Catalog. Grades will be comprised of the following. Note that “assignments” includes any graded class activities, assignments/quizzes in Knewton Alta, in-class pop quizzes, and/or projects.

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| Tests (4 in-class tests; 10% each) | 40% |
| Assignments | 40% |
| Final Exam (in class on paper) | 20% |

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 a documented physical, psychological, or learning disability may request assistance from the Student Services Department. Students are encouraged to complete this process within the first two weeks of the semester. The Student Services Department is located on the upper level of Presidents Hall. You may also contact the office by phone at 244-8150.

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| Course Outline |
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Attendance

You are expected to attend all class sessions and actively participate in examples and activities whether together as a class or individually using Knewton Alta. If you *must* be absent due to illness or an emergency, you are responsible for obtaining any lecture notes or class activity information from the professor or other students.

If you exceed the absentee policy set forth by CCU (i.e. more than four absences from this course), it will result in a grade of FA (failure due to absences), and you will be dropped from the course. **Arriving late to class (i.e. after attendance has been taken) three times will equal one absence.** If you arrive after class attendance has been taken, it is your responsibility to inform the professor after class of your late arrival. Otherwise, you may be counted absent. Also, if a student is present for less than half of a class, it is considered an absence.

Late Assignments

An assignment or quiz will be considered late if it is not submitted by the due date and time. Assignments and quizzes in Knewton Alta may be submitted up to two days past the due date with a 10% penalty deducted each day. After two days, students will not receive any credit for late assignments. Students who are absent because of CCU extracurriculars or otherwise should plan to submit assignments early.

Tests

Tests and exams assess whether the course objectives are being met. If a student misses a scheduled test or exam 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 the Learning Center within one week of the original test date. The final exam will occur at the end of the semester and will be cumulative. **Please do not make summer travel arrangements until receiving the final exam schedule from the Registrar's Office.**

Course Outline

The course outline follows on the next page. The instructor reserves the right to change or amend any part of this course plan as deemed necessary. There will be an assignment and a quiz in Knewton Alta for each section. There will be one in-class test at the end of each unit. Note that we will not meet for class during Spring Recess (March 11-15) nor on CCU Community Service Day (April 11).

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| UNIT 1 (Whole Numbers) | |
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| Tuesday, January 22 | Introduction to Course/Knewton Alta 1.1 Place Value and Rounding Whole Numbers |
| Thursday, January 24 | 1.2 Adding Whole Numbers 1.3 Applications of Adding Whole Numbers |
| Tuesday, January 29 | 1.4 Subtracting Whole Numbers 1.5 Applications of Subtracting Whole Numbers |
| Thursday, January 31 | 1.6 Multiplying Whole Numbers 1.7 Applications of Multiplying Whole Numbers |
| Tuesday, February 5 | 1.8 Dividing Whole Numbers 1.9 Dividing Whole Numbers with Long Division |
| Thursday, February 7 | 1.10 Applications of Dividing Whole Numbers |
| Tuesday, February 12 | 1.11 Exponents and Order of Operations |
| Thursday, February 14 | Review of Sections 1.1 – 1.11 |
| Tuesday, February 19 | Unit 1 Test (1.1 – 1.10) **All Unit 1 Assignments & Quizzes Due** |
| UNIT 2 (Decimals) | |
| Thursday, February 21 | 2.1 Naming Decimals and Converting Decimals to Fractions 2.2 Ordering and Rounding Decimals |
| Tuesday, February 26 | 2.3 Operations with Decimals 2.4 Operations with Decimals in a Money Application |
| Thursday, February 28 | 2.5 Converting Fractions to Decimals and Order of Operations with Decimals |
| Tuesday, March 5 | 2.6 Writing Ratios and Using Ratios in Applications |
| Thursday, March 7 | Unit 2 Test (2.1 – 2.6) **All Unit 2 Assignments & Quizzes Due** |
| UNIT 3 (Fractions) | |
| Tuesday, March 19 | 3.1 Introduction to Fractions, Improper Fractions, and Mixed Numbers 3.2 Finding Equivalent Fractions |
| Thursday, March 21 | 3.3 Ordering Fractions and Mixed Numbers 3.4 Simplifying and Multiplying Fractions |
| Tuesday, March 26 | 3.5 Reciprocal and Dividing Fractions 3.6 Multiplying and Dividing Mixed Numbers |
| Thursday, March 28 | 3.7 Adding and Subtracting Fractions with Common Denominators 3.8 Adding and Subtracting Fractions with Different Denominators |
| Tuesday, April 2 | 3.9 Adding and Subtracting Mixed Numbers with Common Denominators 3.10 Adding and Subtracting Mixed Numbers with Different Denominators |
| Thursday, April 4 | Unit 3 Review |
| Tuesday, April 9 | Unit 3 Test (3.1 – 3.10) **All Unit 3 Assignments & Quizzes Due** |
| UNIT 4 (Percents & Proportions) | |
| Tuesday, April 16 | 4.1 Definition of Percent and Converting Percents |
| Thursday, April 18 | 4.2 Equations and Percent Increase and Decrease |
| Tuesday, April 23 | 4.3 Using Percents with Sales Tax, Commission, and Discounts |
| Thursday, April 25 | 4.4 Proportions and Applications Using Proportions |
| Tuesday, April 30 | 4.5 Writing and Solving Percent Proportions |
| Thursday, May 2 | Unit 4 Review |
| Tuesday, May 7 | Unit 4 Test (4.1 – 4.5) **All Unit 4 Assignments & Quizzes Due** |
| Thursday, May 9 | Semester Review |
| May 13-16 | Exam (Date TBA by Registrar's Office) |