

COURSE: MATH0114 Basic Math & Prealgebra

INSTRUCTOR:

CREDITS: 4 **CLASS HOURS PER WEEK:** 4

PREREQUISITES: By placement

DESCRIPTION OF COURSE: This course includes standard basic mathematics and pre-algebra content including whole numbers, fractions, decimals, integers, expressions, linear equations, and application problems. Not open to students with credit for MATH 1024, MATH 1025, MATH 1050, or higher.

STUDENT LEARNING OUTCOMES: The goal of this course is to develop students' foundational numerical and algebraic skills required in future mathematics courses. A grade of "C" or better is required to move on to the next math course.

INSTITUTIONAL LEARNING GOALS:

Columbus State Community College's Institutional Learning Goals are an integral part of the curriculum and central to the mission of the college. For this course, students are expected to demonstrate the skills associated with the Institutional Learning Goals identified below:

#1: Critical Thinking

#3: Quantitative Skills

In class, students are assessed on achievement of these outcomes. Names will not be used when reporting results. Outcomes-based assessment is used to improve instructional planning and design and the quality of student learning throughout the college.

COURSE MATERIALS REQUIRED:

TI-30XS MultiView Calculator (not permitted in Unit I)

Computer/internet access

ALEKS-360 Subscription

TEXTBOOKS, MANUALS, REFERENCES, AND OTHER READINGS:

Prealgebra by Miller/O'Neill/Hyde (E-book)

ALEKS online homework/assessment system

GENERAL INSTRUCTIONAL METHODS

Lecture/practice handouts and/or online video/exercises

STANDARDS AND METHODS FOR EVALUATION

A student will have at most two opportunities to reach the mastery test score of 82% on Midterm I, Midterm II, Midterm III, and Midterm IV. The average is calculated by adding the two scores and dividing by two.

Students who fail to take any assessment by the assigned date will receive a 0%. Exceptions require official documentation.

GRADE SUMMARY

Homework Activities = 30%

4 Midterms (10% each) = 40%

Final Exam (Comprehensive) = 30%

GRADING SCALE

91% - 100% = A

82% - 90% = B

75% - 81% = C

65% - 74% = D

below 65% = E/EN*

*An E represents a failing grade and that a significant portion of the coursework was attempted by the student.

*An EN represents a failing grade and that a significant portion of the coursework was not attempted by the student.

SPECIAL COURSE REQUIREMENTS

Computer/internet access is required to complete online homework assignments.

ATTENDANCE POLICY

Attendance is required. The MATH0114 attendance policy is outlined in the Student Contract and posted on Blackboard.

STUDENT CODE OF CONDUCT

As an enrolled student at Columbus State Community College, you have agreed to abide by the Student Code of Conduct as outlined in the Student Handbook. You should familiarize yourself with the student code. The Columbus State Community College expects you to exhibit high standards of academic integrity, respect, and responsibility. Any confirmed incidence of misconduct, including plagiarism and other forms of cheating, will be treated seriously and in accordance with College Policy and Procedure 7-10.

AMERICANS WITH DISABILITIES ACT (ADA) POLICY

It is Columbus State policy to provide reasonable accommodations to students with disabilities as stated in the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act. If you would like to request such accommodations for access, please contact Disability Services:

101 Eibling Hall, (614) 287-2570. Email or give your instructor a copy of your accommodations letter from Disability Services as soon as possible. Accommodations do not start until your instructor receives the letter, and accommodations are not retroactive.

Delaware Campus students may contact an advisor in the Student Services Center on the first floor of Moeller Hall, (740) 203-8000.

AUDIO/VIDEO RECORDING OF CLASS

Audio and video recording, transmission, or distribution of class content (e.g., lectures, discussions, demonstrations, etc.) is strictly prohibited unless the course instructor has provided written permission via the syllabus or a signed form. Authorization to record extends solely to students in that particular course. Transmitting, sharing, or distributing course content onto public, commercial, or social media sites is strictly prohibited.

TITLE IX

Columbus State Community College is committed to creating a learning and working environment that is free of bias, discrimination, and harassment by providing open communication and mutual respect. If you have encountered sexual harassment, sexual misconduct, sexual assault, or discrimination based on race, color, religion, age, national origin, ancestry, sex, sexual orientation, gender identity and expression, genetic information (GINA), military status, or disability, or for additional information about your options at Columbus State Community College or to file a complaint online, please visit our webpage at <http://www.csc.edu/services/title-ix/>.

INCLEMENT WEATHER OR OTHER EMERGENCIES

In the event of severe weather or other emergencies that could force the college to close or to cancel classes, such information will be broadcast on radio stations and television stations. Students who reside in areas that fall under a Level III emergency should not attempt to drive to the college even if the college remains open.

Assignments due on a day the college is closed will be due the next scheduled class period. If an examination is scheduled for a day the campus is closed, the examination will be given on the next class day. Students who miss a class because of weather-related problems when the class is held as scheduled are responsible for reading and other assignments as indicated in the syllabus.

FINANCIAL AID ATTENDANCE REPORTING

Columbus State is required by federal law to verify the enrollment of students who participate in Federal Title IV student aid programs and/or who receive educational benefits through the Department of Veterans Affairs. It is the responsibility of the College to identify students who do not commence attendance or who stop attendance in any course for which they are registered and paid. Non-attendance is reported every semester by each instructor, and results in a student being administratively withdrawn from the class section. Please contact the Financial Aid Office for information regarding the impact of course withdrawals on financial aid eligibility.

For the purposes of financial aid reporting, a student meets the participation and attendance criteria if s/he has actively engaged in the class and demonstrated a meaningful attempt toward completion of the course. See the MATH0114 Attendance Policy outlined in the Student Contract and posted on Blackboard.

MATH DEPARTMENT DIVERSITY, EQUITY, AND INCLUSION (DEI) STATEMENT

The CSCC Mathematics Department faculty value diversity of thought, perspective, and experience, and respect your identities (including but not limited to race, gender identity or expression, class, sexual orientation, religion, and ability). The education, rights, and well-being of all students are encouraged and cultivated. Our goal is to foster and support safe and inclusive learning environments with equitable opportunities for all students to participate, contribute, and succeed.

COLLEGE SYLLABUS STATEMENTS

Columbus State Community College-required College Syllabus Statements on College Policies and Student Support Services can be found at www.csc.edu/syllabus, or on the college website Quick Links “Syllabus Statements.” Some of the CSCC syllabus statements may be included on the syllabus for the course, but the link will lead you to the most complete and updated information. Please read all of the information at this site to ensure that you are aware of campus services, your rights, and your responsibilities. (In the event that information has changed since the creation of the course syllabus, the information on the website supersedes that on the syllabus: <http://www.csc.edu/academics/syllabus.shtml>.)

STUDENT RESOURCES, RIGHTS, AND RESPONSIBILITIES

Columbus State Community College required College Syllabus Statements on College Policies and Student Support Services can be found at www.csc.edu/syllabus or on the College website Quick Links “Student Resources, Rights, and Responsibilities.”

LEAD INSTRUCTOR

This course is departmentalized, and each individual instructor is required to adhere to the same standards as described in this syllabus. If after contacting the instructor assigned to your course you have questions or concerns about these standards, you may contact the lead instructor listed below.

Nancy Ziminski
Aquinas 226
nziminsk@csc.edu

(Please provide a weekly course schedule indicating the units of instruction, learning objectives/goals, assigned readings, assignments, and assessment methods.)

Week 1

- **Unit of Instruction:** Introduction to Whole Numbers, Addition and Subtraction of Whole Numbers and Perimeter, Rounding and Estimating, & Multiplication of Whole Numbers and Area
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Sections 1.2-1.5 on ALEKS
- **Assessment Methods:** Group Activities & Homework Completion

Week 2

- **Unit of Instruction:** Division of Whole Numbers, Exponents and the Order of Operations, Mixed Applications and Computing Mean, & Integers, Absolute Value, and Opposite
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Sections 1.6-2.1 on ALEKS
- **Assessment Methods:** Group Activities & Homework Completion

Week 3

- **Unit of Instruction:** Addition of Integers, Subtraction of Integers, Multiplication and Division of Integers
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Sections 2.2-2.4 on ALEKS
- **Assessment Methods:** Group Activities & Homework Completion

Week 4

- **Unit of Instruction:** Review for Midterm 1
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Midterm 1 Review
- **Assessment Methods:** Midterm 1

Week 5

- **Unit of Instruction:** Variables, Order of Operations and Algebraic Expressions, & Simplifying Expressions and Combining Like Terms
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Sections 1.7, 2.5, & 3.1 on ALEKS
- **Assessment Methods:** Group Activities & Homework Completion

Week 6

- **Unit of Instruction:** Addition and Subtraction Properties of Equality, Multiplication and Division Properties of Equality, & Solving Equations with Multiple Steps
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Sections 3.1-3.4 on ALEKS
- **Assessment Methods:** Group Activities & Homework Completion

Week 7

- **Unit of Instruction:** Applications and Problem Solving & Calculator Workshop
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Section 3.4 on ALEKS
- **Assessment Methods:** Homework Completion

Week 8

- **Unit of Instruction:** Introduction to Fractions and Mixed Numbers, Simplifying Fractions, & Review for Midterm 2
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Sections 4.1-4.2 on ALEKS, & Midterm 2 Review
- **Assessment Methods:** Midterm 2 & Homework Completion

Week 9

- **Unit of Instruction:** Multiplication and Division of Fractions, Least Common Multiple and Equivalent Fractions, & Addition and Subtraction of Fractions
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Sections 4.3-4.5
- **Assessment Methods:** Group Activities & Homework Completion

Week 10

- **Unit of Instruction:** Estimation and Operations on Mixed Numbers, Order of Operations and Complex Fractions, Solving Equations Containing Fractions, Decimal Notation and Rounding
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Sections 4.6-5.1 on ALEKS
- **Assessment Methods:** Group Activities & Homework Completion

Week 11

- **Unit of Instruction:** Addition and Subtraction of Decimals, Multiplication of Decimals and Applications with Circles, Division of Decimals, & Fractions, Decimals, and the Order of Operations
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Sections 5.2-5.5 on ALEKS
- **Assessment Methods:** Group Activities & Homework Completion

Week 12

- **Unit of Instruction:** Solving Equations Containing Decimals & Midterm 3 Review
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Section 5.6 on ALEKS & Midterm 3 Review
- **Assessment Methods:** Midterm 3 & Homework Completion

Week 13

- **Unit of Instruction:** Ratios, Rates, & Proportions
- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills
- **Assignment:** Homework Sections 6.1-6.3 on ALEKS

- **Assessment Methods:** Group Activities & Homework Completion

Week 14

- **Unit of Instruction:** Applications of Proportions and Similar Figures, Percent, Fractions, and Decimals, & Percent Proportions and Applications

- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills

- **Assignment:** Homework Sections 6.4-7.2 on ALEKS

- **Assessment Methods:** Group Activities & Homework Completion

Week 15

- **Unit of Instruction:** Review for Midterm 4 & Final Exam

- **Learning Objectives/Goals:** Critical Thinking & Quantitative Skills

- **Assignment:** Midterm 4 Review & Final Exam Review

- **Assessment Methods:** Midterm 4