

College Math

56-1720-07, Fall 2010

Department of Science & Mathematics
Columbia College Chicago
600 S. Michigan Ave.
Chicago, IL 60605

course title	College Math	instructor	Dr. Christopher Shaw
document date	Fall 2010	office	623 S. Wabash, 500-M
course number	56-1720	phone	312-369-7732
section number	14	email	cshaw@colum.edu
credits	3.0	website	http://work.colum.edu/~cshaw
designation	MA	department phone	312-369-7368
meeting day and time	Tue. 12:30–3:20	department fax	312-369-8075
meeting room	623 S. Wabash room 213A	office hours	Mon. 1–3; Tue. 1:30–3:30

required text *College Math, Sixth Edition*, Hanson & Insley, Pearson Custom Publishing, ISBN 0-536-74712-1 (purchase in the bookstore)

other required material Ruler, protractor, and TI-73 calculator, which will be distributed in class
instructional resource fees \$40.00

course description Course covers essential mathematical skills expected at the college level. These skills are presented in an integrated way, with emphasis on applications of math. Topics include algebra, geometry, statistics, and trigonometry. Students solve problems, improve understanding of concepts, and interpret statistics and graphs. Effort is made to incorporate mathematical applications reflecting students' majors.

course rationale Mathematical literacy is an essential component in the education of all students. It is a survival tool in everyday life, recognized as valuable in all professions. Mathematical literacy sharpens critical thinking skills, which are highly sought by employers and are pivotal in our decision-making process. This course satisfies the Mathematics requirement of the Liberal Arts and Sciences Core Curriculum.

prerequisites Basic math

General mathematics objective

Students will be proficient in the mathematical skills and concepts to support their chosen career and to function effectively in society.

Learning outcomes

- Students will understand mathematical concepts in basic number theory, algebra, geometry and statistics.
- Students will be able to use proportions to solve a variety of problems.
- Students will be able to solve equations and use formulas appropriately.
- Students will be able to graph equations and interpret their meanings.
- Students will understand and be able to apply the concepts of average and standard deviation.

- Students will be able to measure and compute area, perimeter and volume and understand these ideas.
- Students will understand the relations between functions and their graphs.

Grading and evaluation

Your final grade will be assigned using the scale below.

94–100%	A
90–93%	A-
87–89%	B+
84–86%	B
80–83%	B-
77–79%	C+
74–76%	C
70–73%	C-
60–69%	D
Less than 60%	F

100% of a student's final grade will be based on academics:

2 quizzes (best 2 out of 3)	30%
Class work	20%
Homework/notebook	20%
Final exam	30%

Attendance policy

Missing class will have an adverse effect on the learning process and on your course grade.

Late work and makeup policy

- *Late homework.* There is a 24 hour grace period after the due date in which assignments will still be accepted for full credit. After the grace period, no late homework will be accepted.
- *Quizzes and exams.* You must be present for the quizzes and final exam. There are *no* makeup quizzes; your lowest quiz score will be dropped.

Academic integrity

Students at Columbia College enjoy significant freedom of artistic expression and are encouraged to stretch their scholarly and artistic boundaries. However, the college prohibits all forms of academic dishonesty. For present purposes, "academic dishonesty" is understood as the appropriation and representation of another's work as one's own, whether such appropriation includes all or part of the other's work or whether it comprises all or part of what is represented as one's own work (plagiarism). Appropriate citation avoids this form of dishonesty. In addition, "academic dishonesty" includes cheating in any form, the falsification of academic documents, or the falsification of works or references for use in class or other academic circumstances. When such dishonesty is discovered, the consequences to the student can be severe. (Taken from the Columbia College Chicago Student Handbook.)

Services for students with disabilities

Columbia College Chicago seeks to maintain a supportive academic environment for students with disabilities. Students who self-identify as having a disability should present their documentation to the Services for Students with Disabilities (SSD) office. After the documentation has been reviewed by the SSD office, a Columbia College accommodation letter will be provided to the student. Students are encouraged to present their Columbia accommodation letters to each instructor at the beginning of the semester so that accommodations can be arranged in a timely manner by the College, the department, or the faculty member, as appropriate. Accommodations will begin at the time the letter is presented. Students with disabilities who do not have accommodation letters should visit the office of Services for Students with Disabilities, Room 304 of the 623 S. Wabash building (312-369-8296).

Learning Studio

The Learning Studio, located at 618 S. Michigan Avenue, first floor, is a relaxed, open, and personal environment. Tutors can help you with a wide range of subjects at all levels. The environment of the learning studio is non-judgmental when working with a tutor. Using the Learning Studio is a good idea for working in a number of disciplines, including Accounting, Math, Science, and with writing assignments. You can make an appointment through Oasis (using the Make Appointments tab) or call the Learning Studio at 312-369-8130. Please visit the website at www.colum.edu/learningstudio. Its super helpful and free!

Cell phones

Cell phones and other electronic devices (aside from calculators) are not to be used during class. Turn off your cell phone and do not text or twitter during class.

Food and drink

Three hours is a long time to hold a continuous class meeting, and as such it is acceptable to bring food and/or drink for consumption during class. However, the classroom must be kept clean. In order to meet the high standards of professionalism expected of Columbia students, please make sure that you throw out all garbage items associated with your consumables, and wipe up any spills or crumbs. If messiness begins to pervade the classroom, your instructor reserves the right to revoke the eating and drinking privileges of the class.

Course calendar

<i>Week One</i>	9/7–9/11	Introduction & Direct Proportions
September 13: last day to add a class		
<i>Week Two</i>	9/13–9/18	Rational Numbers, Integers and Statistics
September 20: last day to drop a class		
<i>Week Three</i>	9/20–9/25	Measurement, Circle Graphs, & Geometry
<i>Week Four</i>	9/27–10/2	Geometry, Solving Equations Manually and Graphically
<i>Week Five</i>	10/4–10/9	QUIZ ONE: Graphing Applications
<i>Week Six</i>	10/11–10/16	Inverse Proportions and Curve Fitting
<i>Week Seven</i>	10/18–10/23	Pythagorean theorem and Word Problems
<i>Week Eight</i>	10/25–10/30	QUIZ TWO: Literal Equations
November 1: last day to withdraw from a class		
<i>Week Nine</i>	11/1–11/6	Logarithms and Scientific Notation
<i>Week Ten</i>	11/8–11/13	Logarithms and Exponential Functions
<i>Week Eleven</i>	11/15–11/20	QUIZ THREE: Trigonometry
<i>Week Twelve</i>	11/22–11/24	Trigonometry and Trig applications
Thanksgiving break: November 25–28; classes resume on November 29		
<i>Week Thirteen</i>	11/29–12/4	Sequences and Series
<i>Week Fourteen</i>	12/6–12/11	Review
<i>Week Fifteen</i>	12/13–12/18	FINAL EXAM

Disclaimer statement

This syllabus may be amended as the course proceeds. You will be notified of all changes.