College Math
56-1720-12, Summer 2011
Department of Science & Mathematics
Columbia College Chicago
600 S. Michigan Ave.
Chicago, IL 60605

course title College Math
document date Summer 2011
instructor Dr. Christopher Shaw

course number 56-1720
section number 02
credits 3.0
designation MA

meeting day and time M/W 1–5:20
meeting room 624 S. Michigan 1301

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 Skills, course number 56-1710

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  30%
Class work  20%
Homework  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. In order to receive full credit, homework must be turned in on the due date. Late homework will be accepted at a 50% penalty on the class day following the due date. There will be 8 assignments in total; the lowest two scores will be dropped.

• Quizzes and exams. You must be present for the quizzes and final exam. There are no makeup quizzes.

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.

Food and drink
Four and a half 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

| Week One | May 23 | Direct proportions, rational numbers, and statistics |
| Week One | May 25 | Geometry & solving by graphing |
| Week Two | May 30 | Memorial Day—school closed |
| Week Two | June 1 | Solving by graphing & inverse proportions & statistical plotting |
| Week Three | June 6 | QUIZ ONE; Pythagorean theorem & work problems |
| Week Three | June 8 | Literal equations & Logarithms |
| Week Four | June 13 | Exponential equations & trigonometry |
| Week Four | June 15 | QUIZ TWO; Trigonometry & applications |
| Week Four | June 20 | Sequences & series |
| Week Four | June 22 | FINAL EXAM |

Disclaimer statement
This syllabus may be amended as the course proceeds. You will be notified of any changes.