

MATH 1030
CRN #20376 and 24456
QUANTITATIVE REASONING
SPRING SEMESTER, 2015
T,TH Section 1: 10:30-11:45/Section 2: 2:30-3:45

Instructor: Kathie Ott, M.S.

Office: SNOW 136, **Phone:** 879-4253

E-mail: ott@dixie.edu (best way to reach me)

Hours: T, Th 12-2:30, W 12:30-3:00

Course Text: Purchase online course code from the Bookstore.

Course ID, Section 1: ott33208 Course ID, Section 2: ott43127

This section will be taught as a lecture course but will include an extensive computer-based component. This means all homework will be done, checked and submitted to the instructor online through a program called My Math Lab: <http://www.mymathlab.com> Unit tests will be in the testing center. **You will need access to a computer with internet for daily assignments.** Computer labs on campus are available to those students who do not have internet access. You can find your course ID number on this syllabus, just above this paragraph. You will receive more complete instructions on the first day of class.

Course Description: Fulfills General Education Mathematics requirement for students in Fine Arts or Liberal Arts degrees. Focuses on development of analytical problem solving skills through the application of various mathematical concepts to real life problems. Topics of study include: modeling with algebra; geometry; logic; financial math; right triangle trigonometry (indirect measurement); probability and statistics. Students are cautioned to check degree and/or transfer requirements before taking this course. Prerequisite: MATH 1010 (Grade C or higher) within two years of enrollment in this course; OR ACT 23 or higher (or equivalent placement score) within two years of enrollment in this course.

Attendance: Attendance and participation are essential and roll will be taken, and is worth 2% of your grade. Tardiness is annoying and causes you to miss important information presented at the beginning of class. There will likely be minor changes in the course schedule that will be announced in advance in class. *You will be held accountable for all information presented during class.*

Homework: Homework assignments are due as outlined on My Math Lab. Late work is accepted, but receives a 30% penalty. Homework is a significant portion of your grade (23%) and is important for success in this course. The Study Plan feature on My Math Lab is not used in this course.

Exams: Each student is expected to take the exams as scheduled in the syllabus or as changed in class. If there is a personal emergency, the instructor must be contacted (in person, or by telephone or e-mail) before the scheduled exam deadline (50% penalty for unexcused late exam). Each exam is worth 10% of your grade. Instead of a comprehensive final exam, a project, consisting of a written report and oral presentation, is required for this course. This project is worth 15% of your grade.

General remarks: Course schedules, assignments, and exam dates are subject to change as circumstances dictate. Any changes will be announced in class.

Important dates this semester: <http://go.dixie.edu/calendar>

Sources of help:

- Library - <http://library.dixie.edu>
- Writing Center - <http://dixiewritingcenter.com>
- Testing Center - <http://dixie.edu/testing>
- Tutoring Center - <http://dixie.edu/tutoring>

Disability statement:

If you suspect or are aware that you have a disability that may affect your success in the course you are strongly encouraged to contact the Disability Resource Center (DRC) located in the North Plaza Building. The disability will be evaluated and eligible students will receive assistance in obtaining reasonable accommodations. Phone # 435-652-7516

D-Mail:

Important class and university information will be sent to your Dmail account. This information includes your DSU bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSU. All DSU students are automatically assigned a Dmail account. If you don't know your user name and password, go to www.dixie.edu and select "Dmail," for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.

Academic Integrity: Severe consequences for academic dishonesty are supported by the college and are enforced in this class. The official college policy is as follows:

Cheating: Academic dishonesty in any form will not be tolerated at Dixie State College, including but not limited to plagiarism on written assignments, submitting another person's work as one's own, and cheating on exams or quizzes. Teachers at Dixie State College may discipline students proven guilty of academic dishonesty by:

- Giving a failing grade on the specific assignment where dishonesty occurred,
- Failing the student in the entire course,
- Immediately dismissing and removing the student from the course, and/or
- Referring the student to Student Affairs, a committee which may reprimand, place on probation, suspend, and/or expel the student.

The following college policies are supported in this class:

[Policy for Absences Related to College Functions](#)

Disruptive Behavior Policy: <http://www.dixie.edu/humanres/policy/sec3/334.html>

COURSE OBJECTIVES

All mathematics classes at Dixie College will:

- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of Math 1030, a student will demonstrate through testing and projects the ability to:

- Use algebra to graphically represent and analyze linear, quadratic, exponential, and logarithmic models.
- Assess methods of geometry used in artistic representations of the world.
- Identify aspects of logic used to solve complex problems and use logic to make sound decisions in personal and business life.
- Use trigonometry to solve triangles and related applications.
- Use principles of finance to calculate simple and compound interest, values of annuities, and amortization schedules.

- Apply the concepts of probability to calculate outcomes and the corresponding odds in the games that people play.
- Use statistic techniques to organize, display, and analyze data, especially as it applies to situations in the real world.

Grades: Your semester grade will be based on the following scale: **A**(93-100%), **A-**(90-92%), **B+**(87-89%), **B**(83-86%), **B-**(80-82%), **C+**(77-79%), **C**(73-76%), **C-**(70-72%), **D+**(67-69%), **D**(63-66%), **D-**(60-62%), **F**(0-59%).

ASSIGNMENT SCHEDULE

Week of:

JAN 12	Intro	MAR 16	8.3
	1.1		8.4
	1.2		8.5
	1.3		8.6
JAN 19	2.1		8.7
	2.2	MAR 23	9.1
	2.3		9.2
	2.4		9.3
JAN 26	3.1		REVIEW
	3.2		10.1
	3.7		MAR 29-31 Exam 4 (testing center)
	REVIEW	MAR 30	10.2
	JAN 29-31 Exam 1 (testing center)		10.3
FEB 2	4.1		10.4
	4.2		10.5
	4.4		10.6
	5.1	APR 6	11.1
	5.2		11.2
FEB 9	5.3		11.3
	5.4		REVIEW
	5.6		APR 13-15 Exam 5 (testing center)
	Golden Rectangle/Fibonacci	APR 13	11.4
	sequence		11.5
FEB 16	REVIEW		11.6
	FEB 19-21 Exam 2 (Testing Center)		11.7
	6.1	APR 20	12.1
	6.2		12.2
	6.3		12.3
FEB 23	6.4		12.4
	6.5	APR 27	12.5
	7.1		REVIEW
	7.2		APR 28-30 Exam 6 (testing center)
MAR 2	7.3		
	REVIEW		Final Presentations:
	8.1		Th May 7, 9:30-11:30 (Section 1)
	8.2		T May 5, 2:00-4:00 (Section 2)
	MAR 4-6 Exam 3 (testing center)		
	MAR 9-13 SPRING BREAK! (no class)		