Dixie State University
http://www.dixie.edu
Syllabus for Quantitative Reasoning (3.0 credits)
CRN 47968   Math 1030-02   Fall 2015

This course fulfills the General Education Mathematics requirement for students majoring in Art, Music, English, Dance, Theatre, and other majors.

Instructor: Kathie Ott, M.S.   **Office:** SNOW 136, **Phone:** 879-4253
E-mail: ott@dixie.edu (best way to reach me)   **Office hours:** T, Th 12:00-1:00; W 11-12, 12:30-3:30
Course Text: Purchase online course code from the Bookstore or online
            Course ID, Section 2: ott48616
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.

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 or MATH 1000 (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.

Class Structure: 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.
To resister for MyMathLab (MML), go to http://www.mymathlab.com/ and
- Under the heading "Register", click "Student".
- When you are asked for the **COURSE ID**, enter *ott48616*

- Follow the instructions to either create and account, or sign in if you have an existing account. If you are creating a new account, you will need to purchase a student **ACCESS CODE** from either the publisher as you are registering, or ahead of time from the bookstore. Check both places to see which is less expensive.
- When you enter your **email account**, please make sure you use the email that you check the most often.
- If you have questions, please go to http://www.pearsonmylabandmastering.com/northamerica/students/get-registered/index.html and watch the video found by scrolling towards the bottom of the screen or you may contact customer support service (http://www.mymathlab.com/student-support).

Attendance: Attendance and participation are essential and roll will be taken. Extra credit will be given for excellent attendance. 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 (20%) 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. All tests (except the final) will be taken in the Testing Center, unless prior announcement is given. Make-up exams will NOT be given except in documented emergencies, such as death in immediate family, hospitalization (documentation required); or because of active military duty, DSU-sponsored events requiring mandatory attendance (proof of attendance required). You must notify your instructor immediately in the case of an emergency for consideration and get prior consent if not an emergency. Each exam is worth 10% of your grade. The lowest test score (percentage) can be replaced with the final exam percentage. Only non-graphing scientific calculators are allowed on tests.

Final Exam: The final comprehensive exam worth 15% of your overall course grade must be taken on December 15 at 10:30-12:30 a.m. This exam will be given in class and not in the testing center.

Project: A project consisting of a class presentation is required for this course. The details for this assignment will be provided on a separate rubric. This project will be worth 10% 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 and university polices can be found here: https://dixie.edu/reg/faculty/?page=Syllabus

Disability Resources: If you are a student with a medical, psychological, or learning disability or think you might have a disability and would like accommodations, contact the Disability Resource Center (652-7516) in the North Plaza. The Disability Resource Center (http://dixie.edu/drcenter/) will determine eligibility of the student requesting special services and determine the appropriate accommodations related to their disability.

Title IX: DSU seeks to provide an environment that is free of bias, discrimination, and harassment. If you have been the victim of sexual harassment/misconduct/assault we encourage you to report this to the college's Title IX Director, Cindy Cole, (435) 652-7731, cindy.cole@dixie.edu. If you report to a faculty member, she or he must notify the Title IX Director about the basic facts of the incident.

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.

COURSE OBJECTIVES

Grades: Your semester grade will be based on the following scale: **A**(94-100%), **A-**(90-93%), **B+**(87-89%), **B**(83-86%)**, B-**(80-82%), **C+**(75-79%), **C**(70-74%), **C-**(65-69%), **D+**(60-64%), **D**(55-59%), **D-**(50-54%), **F**(0-49%).

ASSIGNMENT SCHEDULE

Week of:

AUG 24	Intro		OCT 19	8.1
	1.1			8.2
	1.2			8.3
	1.3			8.4
AUG 31	2.1		OCT 26	8.5
	2.2			8.6
	2.3			8.7
	2.4		NOV 2	9.1
SEPT 7	3.1			9.2
	3.2			9.3
	3.3 and logical fallacies			REVIEW
	REVIEW			10.1

SEP 10-12 Exam 1 (testing center)   **NOV 5-6 Exam 4 (testing center)**

SEP 14	4.1		NOV 9	10.2
	4.2			10.3
	4.4			10.4
	5.1			10.5
	5.2		NOV 16	10.6
SEP 21	5.3			11.1
	5.4			11.2
	5.6			11.3
	Golden Rectangle/Fibonacci			REVIEW
	sequence			

NOV 19-21 Exam 5 (testing center)

SEP 28	REVIEW		NOV 23	11.4

SEP 30-OCT 1 Exam 2 (Testing Center)   11.5

NOV 25-27 Thanksgiving Break

	6.1			
	6.2		NOV 30	11.6
	6.3			11.7
OCT 5	6.4			12.1
	6.5			12.2
	7.1		DEC 7	12.3
	7.2			12.4
OCT 12	7.3			12.5
	REVIEW			REVIEW

OCT 15-16 Fall Recess   **Final Exam: December 15, 1:00-3:00**
OCT 19-20 Exam 3