

Syllabus

Course Number: MT204

Course Title: Contemporary Mathematics

Course Description:

This course presents topics in contemporary mathematics of interest to the liberal arts student. Contemporary Mathematics emphasizes the use of mathematics in everyday life with a variety of real world applications for mathematical concepts such as set relationships, percentages, statistics, probability, and the management of finances. Other topics deal with the natural world and how we calculate natural growth, represent geometric shapes, create pictures, and analyze sounds.

Prerequisite Courses:

Placement by the Department

Course Outcomes:

Upon completion of the course, the student should be able to:

1. Demonstrate they are well informed members of the public with sufficient knowledge and expert judgment to make informed social and political decisions.
2. Demonstrate an awareness of socially beneficial uses of mathematics, as well as harmful uses of mathematics.
3. Demonstrate a basic understanding of set theory.
4. Apply critical thinking and problem solving techniques.
5. Use, evaluate, and interpret numerical results.
6. Understand the key issues of personal finance management.
7. Demonstrate an ability to understand and use fundamental statistics and probability concepts.
8. Apply the laws of linear and exponential growth.
9. Apply basic principles of mathematical modeling.
10. Apply geometry principles to the solution of real world problems.
11. Use mathematics to understand the connections between mathematics and the arts.

Course Materials:

Required Texts:

Bennett, Jeffrey and Briggs, William (2015) *Using and Understanding Mathematics, A Quantitative Reasoning Approach* (6th edition) Pearson Addison Wesley. ISBN 0-321-91462-7

Required Resources:

A **scientific calculator** is required for this course (those available on your computer are acceptable).

Technology Tools:

MyMathLab Access: MyMathLab is a Pearson textbook website where all the Homework Problem Sets, Quizzes, and Exams will be completed.

When you purchase the new Pearson textbook it should come with a CD that has the MyMathLab access code. If you purchase a used copy, you will need to purchase the access code directly from Pearson on the www.coursecompass.com website. You can choose not to have a hard copy of the textbook and just purchase the MyMathLab access directly from the Pearson website with a major credit card. MyMathLab links you to the online version of the textbook.

Course Assignments and Activities:

	Learning Topics	Activities	Reading Assignments	Assignments
1	Sets, Critical Thinking and Problem Solving	Lab Exercises, Facilitated Discussions, Lectures	Chapter 1 Sections C and E Chapter 2 • Sections A to C	Forum Participation Discussion Questions My Math Lab Week 1 Homework My Math Lab Week 1 Quiz
2	Using and Interpreting Numbers	Lab Exercises, Facilitated Discussions, Lectures	Chapter 3 Sections A to D	Forum Participation Discussion Questions My Math Lab Week 2 Homework My Math Lab Week 2 Quiz
3	Personal Finances	Lab Exercises, Facilitated Discussions, Lectures	Chapter 4 Sections A to E	Forum Participation Discussion Questions My Math Lab Week 3 Homework My Math Lab Week 3 Quiz
4	Statistics	Lab Exercises, Facilitated Discussions, Lectures	Chapter 5 Sections A to C Chapter 6 Sections A to C	Forum Participation Discussion Questions My Math Lab Week 4 Homework My Math Lab Midterm Exam

5	Probability	Lab Exercises, Facilitated Discussions, Lectures	Chapter 7 Sections A, B, C, and E	Forum Participation Discussion Questions My Math Lab Week 5 Homework My Math Lab Week 5 Quiz
6	Laws of Growth and Mathematical Modeling	Lab Exercises, Facilitated Discussions, Lectures	Chapter 8 Sections A, B, and D Chapter 9 Sections A to C	Forum Participation Discussion Questions My Math Lab Week 6 Homework My Math Lab Week 6 Quiz
7	Geometry	Lab Exercises, Facilitated Discussions, Lectures	Chapter 10 Sections A to C	Forum Participation Discussion Questions My Math Lab Week 7 Homework My Math Lab Week 7 Quiz
8	Mathematics and the Arts	Lab Exercises, Facilitated Discussions, Lectures	Chapter 11 Sections A to C	Forum Participation Discussion Questions My Math Lab Week 8 Homework My Math Lab Final Exam

Student Evaluation Grid

Assignment	Value (percent of overall course grade)
Participation	10%
Discussion Questions	20%
Weekly Homework	10%
Six Quizzes	20%
Midterm Exam	20%
Final Exam	20%
TOTAL	100%

Participation

Because of the accelerated nature of the course, class participation is very important. Class participation/effort is important because we can all learn from each other. Your participation points can make a difference in the final grade. If the student doesn't participate during any given week, they will lose the participation points of that week.

Participation means:

1. a. Present in class every session (classroom)
b. Present in the forum every week (online)
2. a. Effectively responds to questions from the facilitator (classroom)
b. Regularly checks forum and post all required assignments/discussion questions/items by the deadlines (online)
3. Contributes to classroom/forum discussions, etc.

Tutoring:

Occasionally students need additional assistance with course content. Tutorial assistance is available to students through SmartThinking, writing assistance and personal tutoring. SmartThinking provides every student with ten hours of free online tutoring in writing, math, statistics, economics and accounting each year. Writing assistance is available in the form of Roving Writing Tutors and a variety of writing workshops. Individual personal tutors are available in a variety of discipline areas with fees and arrangements made between the individual student and tutor. For access to these services, go www.regis.edu, Current Student, Services for CPS Students, Academic Tools, Tutoring/SmartThinking.

CC&IS Grading Scale

Letter Grade	Percentage	Grade Point
A	93 to 100	4.00
A-	90 to less than 93	3.67
B+	87 to less than 90	3.33
B	83 to less than 87	3.00
B-	80 to less than 83	2.67
C+	77 to less than 80	2.33
C	73 to less than 77	2.00
C-	70 to less than 73	1.67

D+	67 to less than 70	1.33
D	63 to less than 67	1.00
D-	60 to less than 63	.67
F	Less than 60	0

Additional information about grading can be found in the latest edition of the University Catalog, available at <http://www.regis.edu/Academics/Course%20Catalog.aspx>.



CC&IS Policies and Procedures

Each of the following CC&IS Policies & Procedures is incorporated here by reference. Students are expected to review this information each term, and agree to the policies and procedures as identified here and specified in the latest edition of the University Catalog, available at <http://www.regis.edu/Academics/Course%20Catalog.aspx> or at the link provided.

- The CC&IS Academic Integrity Policy.
- The Student Honor Code and Student Standards of Conduct.
- Incomplete Grade Policy, Pass / No Pass Grades, Grade Reports.
- The Information Privacy policy and FERPA. For more information regarding FERPA, visit the [U.S. Department of Education](http://www.ed.gov).
- The HIPAA policies for protected health information. The complete Regis University HIPAA Privacy & Security policy can be found here: <http://www.regis.edu/About-Regis-University/University-Offices-and-Services/Auxiliary-Business/HIPAA.aspx>.
- The Human Subjects Institutional Review Board (IRB) procedures. More information about the IRB and its processes can be found here: <http://regis.edu/Academics/Academic-Grants/Proposals/Regis-Information/IRB.aspx>.

The CC&IS Policies & Procedures Syllabus Addendum summarizes additional important policies including, Diversity, Equal Access, Disability Services, and Attendance & Participation that apply to every course offered by the College of Computer & Information Sciences at Regis University. A copy of the CC&IS Policies & Procedures Syllabus Addendum can be found here: <https://in2.regis.edu/sites/ccis/policies/Repository/CCIS%20Syllabus%20Addendum.docx>.