

**Course Number: MT 201**

**Course Title: College Algebra**

**Course Description:**

Includes algebraic operations, equations and inequalities, functions and their graphs, solution of polynomial, exponential and logarithmic functions, and linear systems of equations.

**Prerequisite Courses:**

Placement by Department

**Course Outcomes:**

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

- Demonstrate that they are well informed, so that they may provide the public with information and expert judgment as part of the basis for social and political decisions.
- Demonstrate an awareness of the socially beneficial uses of mathematics, as well as the harmful uses of mathematics.
- Use exponents and radicals.
- Use algebraic techniques to simplify mathematical expressions.
- Employ linear equations, quadratic equations, and inequalities in the solution of practical problems.
- Use functions and the construction of their graphical representations to solve problems.
- Evaluate and use exponential and logarithmic equations and understand their relationship.

**Course Materials:**

**Required Texts:**

Sullivan, Michael and Sullivan, Michael III. ((2012) College Algebra (7<sup>th</sup> edition)  
Pearson Prentice Hall: ISBN: 0-13-9780134265131

**Required Resources:**

Calculator: A scientific calculator is required for this course.

## Course Assignments and Activities:

	Learning Topics	Activities	Reading Assignments	Assignments
1	Review Numbers, Polynomials, and Rational Expressions	Lab Exercises, Facilitated Discussions, and Lectures	Chapter R Sections 1 to 2 and Sections 4 to 8	My Math Lab Week 1 Assignments in Course Compass  Week 1 Quiz  Discussion Board
2	Graphs, Equations, and Inequalities	Lab Exercises, Facilitated Discussions, and Lectures	Chapter 1 Sections 1 to 3 and Sections 5 to 7	My Math Lab Week 2 Assignments in Course Compass  Week 2 Quiz  Discussion Board
3	Graphs	Lab Exercises, Facilitated Discussions, and Lectures	Chapter 2 Sections 1 to 4	My Math Lab Week 3 Assignments in Course Compass  Week 3 Quiz  Discussion Board
4	Functions and Their Graphs	Lab Exercises, Facilitated Discussions, and Lectures	Chapter 3 Sections 1 to 6	My Math Lab Week 4 Assignments in Course Compass  Midterm Exam  Discussion Board
5	Linear and Quadratic Functions	Lab Exercises, Facilitated Discussions, and Lectures	Chapter 4 Sections 1 to 5	My Math Lab Week 5 Assignments in Course Compass  Week 5 Quiz  Discussion Board
6	Polynomial and Rational Functions	Lab Exercises, Facilitated Discussions, and Lectures	Chapter 5 Sections 1 to 6	My Math Lab Week 6 Assignments in Course Compass  Week 6 Quiz  Discussion Board

7	Exponential and Logarithmic Functions	Lab Exercises, Facilitated Discussions, and Lectures	Chapter 6 Sections 1 to 9	My Math Lab Week 7 Assignments in Course Compass  Week 7 Quiz  Discussion Board
8	Systems of Equations and Inequalities	Lab Exercises, Facilitated Discussions, and Lectures	Chapter 8 Sections 1 to 2 and Section 4 and Sections 6 to 7	My Math Lab Week 8 Assignments in Course Compass  Discussion Board  Final Exam

### Student Evaluation Grid:

Assignments	Weighted Percentage
Weekly Assignments	15%
Weekly Quizzes	25%
Midterm Exam	20%
Final Exam	30%
Participation	10%
<b>TOTAL</b>	<b>100 %</b>

### 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 does not participate during any given week, they will lose the participation points for that week.

Participation means:

1. Present in class every session (classroom)/Present in the forum every week (on-line)
2. Effectively respond to questions from the facilitator (classroom)/Regularly check forum and post all required assignments/discussion questions/items by the deadlines (on-line)
3. Contributes to classroom/forum discussions.

## Tutoring Information:

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](http://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>.