



Science, Technology, Engineering, and Mathematics (Stem) Division
1400 Tanyard Road, Sewell, NJ 08080
856-468-5000

MAT011: Introductory College Mathematics Review

Syllabus

Lecture Hours/Credits: 1/1

Catalog Description

Prerequisite: Placement Score

Prerequisite: RDG099 – Introduction to College Reading III

This is a developmental course for students whose placement test scores place them at this level, or those who feel they need to review the fundamentals of mathematics. This course provides a sophisticated level of understanding of basic concepts and includes basic arithmetic and problem solving. NOTE: MAT011 does not satisfy program requirements in mathematics.

Textbook and Course Materials

It is the responsibility of the student to confirm with the bookstore and/or their instructor the textbook, handbook, and any other materials required for their specific course and section.

Click here to see current textbook prices at rcgc.bncollege.com.

Evaluation Assessment

Online Proctoring

All courses offered at RCSJ, whether they are web-enhanced, hybrid, or fully online, may include assessments that make use of Online Proctoring. To find out more about Online Proctoring, and to learn about the minimum technical requirements, visit rcsj.edu/elearning/online-proctoring.

Grading Distribution

Grading to be determined by individual instructors.

Individual instructors may include the following assessment(s):

- Exams
- Quizzes
- Class Discussions
- Written Assignments
- Attendance and Participation

Grading

The grading scale for each course and section will be determined by the instructor and distributed the first day of class.

Rowan College of South Jersey Core Competencies

(Based on the NJCCC General Education Foundation - August 15, 2007; Revised 2011; Adopted 2014)

This comprehensive list reflects the core competencies that are essential for all RCSJ graduates; however, each program varies regarding competencies required for a specific degree. Critical thinking is embedded in all courses, while teamwork and personal skills are embedded in many courses.

1. **Written and Oral Communication:** Students will communicate effectively in both speech and writing.
2. **Quantitative Knowledge and Skills:** Students will use appropriate mathematical and statistical concepts and operations to interpret data and to solve problems
3. **Scientific Knowledge and Reasoning:** Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.
4. **Technological Competency:** Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals
5. **Society and Human Behavior:** Students will use social science theories and concepts to analyze human behavior and social and political institutions and to act as responsible citizens.
6. **Humanistic Perspective:** Students will analyze works in the fields of art, history, music, or theater; literature; philosophy and/or religious studies; and/or will gain competence in the use of a foreign language
7. **Historical Perspective:** Students will understand historical events and movements in World, Western, non-Western or American societies and assess their subsequent significance.
8. **Global and Cultural Awareness:** Students will understand the importance of a global perspective and culturally diverse peoples.
9. **Ethical Reasoning and Action:** Students will understand ethical issues and situations.
10. **Information Literacy:** Students will address an information need by locating, evaluating, and effectively using information.

MAT 011 CORE COMPETENCIES

This course focuses on one of RCGC's Core Competencies:

- Quantitative Knowledge and Skills

Student Learning Outcomes: Introduction to College Mathematics Review

Successful completion of MAT 011 will help students:	RCSJ Core Competencies	Evaluation / Assessment (Additional means of evaluation may be included by individual instructors)
Perform basic operations with whole numbers.	Quantitative Knowledge and Skills	Exams, Quizzes, Classwork, Homework, Attendance and Participation
Perform basic operations with decimals.	Quantitative Knowledge and Skills	Exams, Quizzes, Classwork, Homework, Attendance and Participation
Perform basic operations with fractions.	Quantitative Knowledge and Skills	Exams, Quizzes, Classwork, Homework, Attendance and Participation
Solve ratio and proportion problems.	Quantitative Knowledge and Skills	Exams, Quizzes, Classwork, Homework, Attendance and Participation
Solve percent problems.	Quantitative Knowledge and Skills	Exams, Quizzes, Classwork, Homework, Attendance and Participation
Apply the properties of real numbers.	Quantitative Knowledge and Skills	Exams, Quizzes, Classwork, Homework, Attendance and Participation

Topical Outline

Whole Numbers

- Place Value, Names for Numbers and Reading Tables
- Adding Whole Numbers
- Subtracting Whole Numbers
- Rounding and Estimating
- Multiplying Whole Numbers
- Dividing Whole Numbers
- An Introduction to Problem Solving
- Exponents, Square Roots, and Order of Operations

Multiplying and Dividing Fractions

- Introduction to Fractions and Mixed Numbers
- Factors and Prime Factorization
- Simplest Form of a Fraction
- Multiplying Fractions and Mixed Numbers
- Dividing Fractions and Mixed Numbers

Adding and Subtracting Fractions

- Adding and Subtracting Like Fractions
- Least Common Multiple
- Adding and Subtracting Unlike Fractions
- Adding and Subtracting Mixed Numbers
- Order, Exponents and the Order of Operations

Decimals

- Introduction to Decimals
- Order and Rounding
- Adding and Subtracting Decimals
- Multiplying Decimals
- Dividing Decimals
- Fractions and Decimals

Ratio and Proportion

- Ratios
- Rates
- Proportions
- Proportions and Problem Solving

Percents

- Introduction to Percent
- Percents and Fractions
- Solving Percent Problems Using Equations
- Solving Percent Problems Using Proportions
- Applications of Percent

Signed Numbers

- Signed Numbers
- Adding Signed Numbers
- Subtracting Signed Numbers
- Multiplying and Dividing Signed Numbers
- Order of Operations

Affirmative Action Statement

The Board of Trustees is committed to providing a work and academic environment that maintains and promotes affirmative action and equal opportunity for all employees and students without discrimination on the basis of certain enumerated and protected categories. These categories are race, creed (religion), color, national origin, nationality, ancestry, age, sex (including pregnancy and sexual harassment), marital status, domestic partnership or civil union status, affectional or sexual orientation, gender identity or expression, atypical hereditary cellular or blood trait, genetic information, liability for military service, or mental or physical disability, including AIDS and HIV related illnesses.

For questions concerning discrimination, contact Almarie J. Jones, Special Assistant to the President, Diversity and Equity/Title IX and Compliance, 856-415-2154 or ajones@rcsj.edu or (Cumberland) Nathaniel Alridge, Jr., JD, Director, Diversity and Equity/Title IX and Judicial Affairs, 856-691-8600, ext. 1414 or nalridge@rcsj.edu. For disability issues or any barriers in the learning or physical environment related to a document condition/disability please contact: Gloucester campus – Dennis M. Cook, Director, Department of Special Services, ADA/504 Officer at 856-415-2265 or dcook@rcsj.edu; or Cumberland Campus – Meredith Vicente, Senior Director, Physical & Learning Disabilities, Center for Academic & Student Success (CASS) at 856-691-6900 ext. 1282 or mvicent1@rcsj.edu

Department of Special Services

The Department of Special Services is located in the Instructional Center, room 425A. The Special Services Department is committed to providing support services and ensuring equal access to eligible students with documented disabilities as outlined by the Americans with Disabilities Act (ADA) and the Americans with Disabilities Act with Amendments. If you are an eligible student with a documented disability please visit our website at RCSJ.edu/SpecialServices or call the office at 856-415-2265 or 856-415-2247 to speak to the Assistant Director Carol Weinhardt, cweinhar@rcsj.edu

Reporting Allegations of Sexual Assault and Resource Referrals (8/2020) Gloucester Campus

There are multiple safe places for students to report allegations of sexual assault, both on and off campus. Reports of sexual assault can be made to any of the following offices listed in the chart below.

All students are encouraged to report alleged crimes on campus. Crimes that pose a threat to the campus community must be reported to 9-1-1, Security, the Sheriff's Office or the Deptford Township Police Department. All employees, including Security staff, must report incidents of discrimination, harassment or sexual misconduct to the Title IX Officer.

Service	Resource	Phone Number/Location/Website
Non-Confidential Reporting Local Law Enforcement	Gloucester County Sheriff's Office Deptford Township Police Dept. Gloucester Co. Prosecutor's Office Sexual Assault Response Team	856-681-2200 856-845-2220 856-384-5500 856-384-5555
Non-Confidential Reporting 9-1-1 and Campus Security	9-1-1 Gloucester County Emergency Management Dispatch Campus Security Blue Light Emergency Phones OR ext. 4444 from any campus desk phone	9-1-1 or push RED button on Campus Blue Light Emergency Phones 856-681-6287
Non-Confidential On-Campus Reporting Support Services	Almarie J. Jones Special Assistant to the President Diversity and Equity/Title IX and Compliance John F. Ryder Director Student and Veteran Affairs	856-415-2154 College Center, Room 116 ajones@rcsj.edu 856-468-5000, ext. 6456 College Center, room 202 jryder@rcsj.edu
Confidential On-Campus Counseling and Support Services	Lois Y. Lawson-Bridgell, Ph.D. MSW, LSW, Director Counseling & Wellness Services Center William Leonard, Ph.D. Intervention Teams Consultant Crystal Noboa, LSW, MSW Director, The Center for People in Transition (PIT) Diane Mussoline, EdS, LMFT Director of Behavioral Services	856-464-5236 llawsonb@rcsj.edu College Center, Room 206 856-415-2119 wleonard@rcsj.edu College Center, STEM Office C-168 856-415-2264 cnoboa@rcsj.edu Workforce Development Bldg., room 809 856-494-5665 dmussoli@rcsj.edu College Center, Room 200A
Confidential Off-Campus Full-Service Support	Center for Family Services/ Services Empowering Rights of Victims (SERV)	1-866-295-7378 Camden and Gloucester counties centerffs.org/serv
Hospitals with Sexual Assault Nurse Examiners	Inspira Medical Center Jefferson Washington Township Hospital	700 Mullica Hill Rd. Mullica Hill, NJ · 856-508-1000 435 Hurffville-Crosskeys Rd., Turnersville, NJ · 856-582-2500