

**MAT 026 – INTERMEDIATE ALGEBRA EXPRESS**

1hr. Lec, 1hr. Rec. /wk. - N1 cr.

1/2021  
BEGINNING SUMMER 2021

Catalog Description: This is an intensive review of A second-level preparatory algebra course designed to prepare students for credit-level mathematics courses. Covered are selected topics, including systems of linear equations, polynomials, factoring, rational expressions, radicals and solving quadratic equations.

Prerequisite: Appropriate score on a placement test or appropriate multiple measures placement

Text: Martin-Gay, Elayn, *Developmental Mathematics*, 4th Edition, (2020, Pearson) *text NOT available for purchase*

Supplementary Material: MyMathLab Access Code

Syllabus

Chapter	Text Sections	Topics
Chapter 9	Sect. 9.3	Solving linear equations
	Sect. 9.4, 9.5	Applications of linear equations
	Sect. 9.7	Solving linear inequalities (no compound inequalities)
Chapter 10	Sect. 10.1 – 10.5	Graphing lines, intercepts, slope, equations of lines
Chapter 12	Sect. 12.1, 12.2	Rules for exponents
	Sect. 12.3 – 12.7	Operations on polynomials (no missing terms for long division)
Chapter 13	Sect. 13.1 – 13.5	Factoring of polynomials
	Sect. 13.6, 13.7	Solving polynomial equations by factoring, applications
Chapter 11	Sect. 11.1 – 11.4	Systems of equations, applications
Chapter 14	Sect. 14.1 – 14.4	Operations on rational expressions
	Sect. 14.5	Solving rational equations
	Sect. 14.7	Complex Fractions
Chapter 15	Sect. 15.1-15.4	Evaluating, simplifying and operations on radicals (square roots only)
	Sect. 15.5	Radical equations (square roots only)
		<b>Final Exam</b>

A Final Exam will be given on the last day of the course.

Grading: Students **must** pass the final exam with 70% to pass the class. Students will receive either P or F.

Note: P meets students prerequisite requirements for MAT 016. F places students in MAT 016.

Students are expected to adhere to the policies of the County College of Morris. These can be accessed at [www.ccm.edu/academics/academic-policies/](http://www.ccm.edu/academics/academic-policies/).

### Statement of Course LEARNING OUTCOMES

- **Solve** simple linear equations, systems of equations, quadratic equations, rational equations and radical equations
- **Create** and **interpret** graphs of linear equations, and write equations for lines.
- **Perform** addition, subtraction, multiplication, and division of rational and radical expressions
- **Simplify** complex fractions and radical expressions