

Foundations of Mathematics II**OVERVIEW OF COURSE**

These sections (along with the corresponding spring sections) will prepare students to successfully complete the College Algebra course (which is a prerequisite for many other math courses).

At the end of the fall semester, 3 credits will be awarded to students who successfully complete the course. A grade for the semester's work will also be given. It is required that each student sign up for the course in the following spring semester.

ENROLLMENT REQUIREMENTS

First-year, specially admitted students. May be used to continue MATH 108 in the spring. Does not count as credit for graduation. Used as preparation for MATH 101, MATH 110, or MATH 201

REQUIRED MATERIALS

Text: MySlideNotes for Basic Math, Introductory and Intermediate Algebra, by Lial, Hornsby, McGinnis, Salzman, Hestwood

Software: MyMathLab access code

Calculator: A device that was purchased as a calculator that does not have CAS, Computer Algebra System, such as TI-Nspire, TI-89, TI-92, Casio ClassPad and Algebra FX 2.0, HP 40g & 50g.

GRADES

A maximum of 710 points may be earned in this course, distributed as follows:

MySlideNotes/Attendance (30 highest scores, 2 points each)	60
Homework (30 highest scores, 3 points each)	90
Quizzes (10 highest scores, 6 points each)	60
Exams (3 exams, 100 points each)	300
Final Exam	200
Sum	710

The final is a departmental, comprehensive exam. This mass final is given to all students at the same time in a room different from your regular classroom. These room assignments are made after exam 2.

MML Bonus: For every perfect score after 30, you will earn a bonus of 3 points. For instance, if you have 32 perfect scores, your Homework point total will be 96 out of 90 points, 6 points extra credit.

TENTATIVE GRADING SCALE

Your grade will be based on your total out of 710 points. The cutoffs will be no higher than:

A: 639 (90%)

B: 568 (80%)

C: 461.5 (65%)

D: 390.5 (55%)

Your instructor may use the plus/minus grading system.

MAKEUPS

The official course policy is that there are no makeup quizzes. Your instructor may modify THIS policy. Make-up exams will be given ONLY for an excused absence, a documented illness or serious emergency. It is YOUR responsibility to contact your instructor before the scheduled date of the exam for an excused absence.

Documentation may be requested by your instructor. If there is a documented illness or serious emergency, inform your instructor via email within 48 hours. Speak with your instructor in their office the next day to talk about the absence and arrange a time to take the makeup exam. No one is entitled to a makeup exam.

ACADEMIC MISCONDUCT

Academic honesty and mutual respect (student with student and instructor with student) are expected in this course. Mutual respect means being on time for class and not leaving early, being prepared to give full attention to class work, not reading newspapers or other material in class, not using cell phones or pagers during class time, and not looking at another student's work during exams or quizzes. Academic misconduct, as defined by the Student Code of Conduct, will not be treated lightly.

Failure to abide by the following will result in a zero score!

- PDA's, cell phones and computers shall be stowed and not be visible during exams.
- Talking or other communication between students is not permitted during exams.

EXPECTATIONS

It is impossible to overemphasize the importance of your active participation in this class. Every student is expected to:

1. Be present and on time for every class meeting. Attendance will be taken every day.
2. Bring the appropriate portion of the MySlideNotes to class every day.
3. Check your NIU e-mail regularly for important announcements throughout the semester.
4. Notify the instructor of any absence, preferably in advance, ESPECIALLY, for a Friday.
4. Read the etext.
5. Review the previous lesson and do the MyMathLab homework assignments after each class. (Expect to spend at least 2 hours daily on math.) The assignments are due midnights on Tuesdays, Thursdays, and Sundays.
6. Check your syllabus and preview the new material before coming to class. This will help you to better understand the lecture.
7. Bring your calculator to class every day.
8. Complete the MyMathLab assignments ahead of time (midnight).
9. Ask questions in class or after class of the instructor.
10. Get help when you need it—not just before an exam. Here are your primary sources for help:

Instructor

SI Leader

Other Students

ACCESS tutors and help sessions

Tutoring Centers (Grant South, New Residence Hall, Library)

NOTICE FOR STUDENTS WITH DISABILITIES

NIU abides by Section 504 of the Rehabilitation Act of 1973 which mandates reasonable accommodations be provided for qualified students with disabilities. If you have a disability and may require some type of instructional and/or examination accommodation, please contact your instructor early in the semester so that we can provide or facilitate in providing accommodations you may need.

If you have not already done so, you will need to register with the [Disability Resource Center \(DRC\)](#), the designated office on campus to provide services and administer exams with accommodations for students with disabilities. The DRC office is located on the 4th floor of the University Health Services building (815 7531303). Your instructor is looking forward to talking with you soon to learn how s/he may be helpful in enhancing your academic success in this course.

SCHEDULE

Schedule/Pace

WEEK	DATES	SECTIONS	TOPICS
1	August 28	Intro, 16.1	Factors; The Greatest Common Factor
	30	16.1	
	September 1	16.2	Factoring Trinomials
2	September 4	OFF	No School
	6	16.3	Factoring Trinomials by Grouping
	8	16.4	Factoring Trinomials by Using the FOIL Method
3	September 11	16.5	Special Factoring Techniques
	13	16.7	Solving Quadratic Equations by Factoring
	15	16.8	Applications of Quadratic Equations
4	September 18	16.8	
	20	Review	
	22	Exam 1	
5	September 25	17.1	Rational Expressions and Functions
	27	17.1	Multiplying and Dividing
	29	17.2	Adding and Subtracting Rational Expressions
6	October 2	17.2	
	4	17.3	Complex Fractions
	6	17.4	Equations with Rational Expressions and Graphs

WEEK	DATES	SECTIONS	TOPICS
	October 9	17.4/17.5	Applications of Rational Expressions
7	11	17.5	
	13	18.3	Absolute Value Equations and Inequalities
	October 16	18.3	
8	18	Review	
	20	Exam 2	
	October 23	19.1	Radical Expressions and Graphs
9	25	19.2	Rational Exponents
	27	19.3	Simplifying Radical Expressions
	October 30	19.3	
10	November 1	19.4	Adding and Subtracting Radical Expressions
	3	19.5	Multiplying and Dividing Radical Expressions
	November 6	19.5	
11	8	19.6	Solving Equations with Radicals
	10	19.6	
	November 13	19.7	Complex Numbers
12	15	Review	
	17	Exam 3	
	November 20	20.1	Solving Quadratic Equations: Square Root Property
13	22	OFF	No School
	24	OFF	No School
	November 27	20.2	Solving Quadratic Equations: Completing the Square
14	29	20.3	Solving Quadratic Equations: Quadratic Formula
	December 1	20.4	Equations Quadratic in Form
	December 4	20.4	
15	6	Review for Final Exam	
	8	Review for Final Exam	

FINAL EXAM – TUESDAY, December 12, 8:00-9:50 a.m.