

General Syllabus for M117 - Fall 2010

Text: Beginning & Intermediate Algebra Fourth Edition by Elayn Martin-Gay Pearson Hall, copyright 2009. Student purchase of the textbook is optional. The e-book is available to students on CourseCompass.

MyMathLab (CourseCompass): An online homework, tutorial, and assessment system. Instructors may require students to complete homework assignments online instead of or as a supplement to traditional homework. An access code will be bundled with new textbooks purchased at the bookstore or can be purchased separately at <https://register.pearsoncmg.com/reg/buy/coursebuy.jsp>

Notes: M007 and M117 use the same textbook. Students who did not take M007, but have just a few weaknesses may review the M007 material (Chapters 2 through 6) as needed in their text. It is important to stress to the students that **knowledge of factoring is assumed**, and that at the beginning of this course, they should only be fine tuning this knowledge.

Calculator: A graphing calculator is not allowed. A TI-30x IIS or B is required. Instructors should be aware that many calculators now simplify radicals. These should not be allowed for use on the Radical Exam or the Final Exam – or students should be required to show all work when simplifying radicals.

Drop Back Policy: Recommended students who drop M117 and add M007 before the 8th class meeting (4th for a class that meets once per week) will have no financial penalties (other than a schedule change fee) and will not have a W recorded. Standard policies apply to students who drop the course later and/or do not add M007

Finals: The final exam for all sections of M117 will be provided by the math department with questions chosen to reflect the topics indicated on this syllabus. The M117 Final Review may be found on the web at <http://homepages.ius.edu/pmiller/> or obtained in the school office.

Grading: Individual instructors are free to choose the grading scheme that best fit his/her teaching style. The department requires that the departmental final exam be weighted as at least 25% of the overall grade for the semester. Students who score below 60% on the final exam may not receive a grade higher than a "C" for the course (C+ is not an option). This should be clearly stated on your syllabus. Instructors are responsible for grading the exams for their own class; the completed exams, a summary sheet, and a printout of semester grades must be returned to the math department.

The sections and topics listed below are to be covered in all sections of M117:

CHAPTER	SECTIONS TO COVER	COMMENTS
7	1 – 7	<ul style="list-style-type: none">• Questions involving proportions are optional in Section 7.6.
8	1 – 2 and Linear Supplement	<ul style="list-style-type: none">• The linear supplement (not optional) gives students much needed practice with applications of linear models.• Try to relate the graphs and their important features to the form of the equations.
4	1 – 3 and 5	
10	1 – 6	<ul style="list-style-type: none">• Omit rationalizing the numerator.
11	1 – 3, 5 and 6	<ul style="list-style-type: none">• When encountering complex solutions, state “no real solution.”• Changing from $y = ax^2 + bx + c$ to $y = a(x - h)^2 + k$ is optional.

Syllabus for M117 Intermediate Algebra

Instructor:

Class Time & Location:

Office:

Voice Mail Number:

Office Hours:

E-mail:

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Prerequisites: M007: Beginning Algebra or placement by exam.

Drop Back Policy: The first on-line homework assignments are a review of factoring. Any student who struggles with the material on these assignments should drop back to M007. Students who drop M117 and add M007 *before the 8th class meeting* will have no financial penalties (other than a schedule change fee) and will not have a "W" recorded on their transcript. Standard policies and financial penalties apply to students who drop the course later and/or do not add M007.

M117 Intermediate Algebra Course Objectives:

By the end of this course, students should be able to:

- Perform operations on rational, exponential, and radical expressions
- Solve systems of equations
- Solve problems and applications involving rational, radical, and quadratic equations
- Determine slope and equations of lines
- Graph linear and quadratic equations

Students with Disabilities: If you have specific physical, psychological or learning disabilities and require accommodations, please let me know early in the semester so that your learning needs may be appropriately met. You will need to provide documentation of your disability to the Coordinator of Disability Services located in the University Center South, Room 207, 941-2243. Additional information about the Office of Services for Students with Disabilities may be obtained at: <http://www.ius.edu/ASC/DisabilityServices/>

Grading Policy: *In addition to other policies outlined by each instructor:*

The Final Exam is to count at least 25% of the course grade and students who score below 60% on the final exam may not receive a grade higher than a "C" for the course (C+ is not an option).

Review for Final Exam: <http://homepages.ius.edu/pmiller/ReviewForFinals.htm>

Homework Policy:

Calculator Policy: No graphing calculators are allowed. A TI-30x IIS or B is required.

Cell Phone Policy:

Attendance Policy: Attendance is a key factor in academic success. Class attendance is required. Illness is usually the only acceptable excuse for absence from class. Other absences must be explained to the satisfaction of the instructor, who will decide whether missed assignments may be made up. A student

absent from class bears full responsibility for all material covered in class. *Individual instructors can include particular requirements and/or penalties for absences.*

Makeup Policy:

Studying for the Class: This is a college class and is much different than one taught in high school. We cover a lot of material and have limited time in class. **You should expect to spend at least two hours studying outside of class for each hour spent in class.** You cannot expect to master the material from just seeing it explained and working in class. An important part of your learning of the material will be the time you spend working out of class.

Help Outside of Class:

- **Math Lab:** Location: Physical Science, Room PS015; 941-2670. Students may walk in and use the facilities at any time (free of charge) without an appointment. Tutor schedule is online at <http://www.ius.edu/mathlab/> and the bulletin board by the lab. Computer software from the textbook is installed on each computer.
- **Pearson Tutor Center:** Pearson Math Tutor Center is staffed by college-level math instructors who can help you with what you're learning. Visit the Tutor Center's [registration page](#) to sign up for tutoring. When asked for a registration number, simply provide your MyMathLab course ID or student access code.
<http://www.pearson tutorservices.com/registration.html>
- **Private Tutors:** Please visit the Student Development Center, US 203, #941-2312, to sign-up for a tutor. Most students get a tutor within 24 hours. The cost is about \$5.00 per hour (non-refundable) and must be paid for in advance. For more information go to:
<http://www.ius.edu/sdc/main/assist1.htm>

Inclement Weather Policy

IUS will use IU-Notify to inform faculty, staff, and students about weather-related closings and delays. Please to go to OneStart and update your contact information through the Emergency Notification links, in order to insure that you will be notified effectively.

1. Any decision to cancel or delay classes is made as early as possible and IUS will immediately begin the process of notifying the local TV stations. IUS has no control over when or how the media announce the decision. IUS will also send a notice via IU- Notify and will post notices on the campus web site and on the campus phone system (812-941-2567). Note that the lodges will remain open even when the campus is officially closed.
2. IUS does not coordinate our decisions with those of area school corporations. However, if you have a class that meets in a school corporation building and that school is closed, the class will not meet, even if the IU Southeast campus is open. When classes on campus are cancelled, all off-campus classes are also cancelled.
3. Any decision to cancel evening classes includes any class that starts before 6 pm but is still in session at 6 pm, as well as any class that starts at 6 pm or thereafter.

Delay Schedule:

Monday through Friday classes:

8 a.m. classes meet from 10 a.m. until 10:55 a.m.

9:30 a.m. classes meet from 11 a.m. until 11:55 a.m.

11 a.m. classes meet from 12 noon until 12:55 p.m.

Other classes meet at regular times.

Saturday Classes:

Morning classes meet from 10:30 a.m. until 12 noon.

Afternoon classes meet at regular times.

Daily Schedule: A possible daily schedule is below. This is only a suggestion. As long as you cover the sections indicated during the semester, you may structure the organization of the course as you wish.

Day	Sections	Topics
1	7.1, 7.2	Simplifying, Multiplying and Dividing Rational Expressions
2	7.3, 7.4	Adding and Subtracting Rational Expressions
3	7.5	Solving Rational Equations
4	7.6	Problem Solving (Proportions are optional)
5	7.7	Complex Rational Expressions
6	Review	
7	EXAM 1 on Chapter 7	
8	8.1, 8.2	Graphing and Writing Linear Functions and Reviewing Function Notation
9	Linear Supplement	Applications of Linear Equations
10	4.1, 4.2	Solving a system of Equations Graphically Solving a system of Equations by Substitution
11	4.3, 4.5	Solving a system of Equations by Elimination, Problem Solving with Systems of linear Equations
12	Review	
13	EXAM 2 on Chapters 8 & 4	
15	10.1	Radicals and Radical Functions
16	10.2	Rational Exponents
17	10.3	Simplifying Radical Expressions
18	10.4	Adding and Subtracting and Multiplying Radical Expressions
19	10.5	Rationalizing the Denominator of Radical Expressions
20	10.6	Radical Equations and Problem Solving
21	Review	
22	EXAM 3 on Chapter 10	
23	11.1, 11.2	Solving Quadratics-Square Root Principle and Completing the Square and Using the Quadratic Formula (When a complex solution is encountered, the student should simply state “no real solution”)
24	11.3	Solving Quadratics using Quadratic Methods
25	11.5, 11.6	Quadratic Functions and Their Graphs
26	Review	
27	EXAM 4 on Chapter 11	
28	Review for Final Examination	

Comprehensive Final Examination: time & date

Note: If a student fails the final exam, the maximum course grade possible is a C.