

Note:

Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.

COURSE SYLLABUS

MATH 110

INTERMEDIATE ALGEBRA

COURSE DESCRIPTION

Review of exponents, polynomials, factoring, roots and radicals, graphing, rational expressions, equations and inequalities, systems of linear equations and problem solving. This course may not be used to meet the General Education requirement. (Developmental Math is a component of the Bruckner Learning Center.)

RATIONALE

Whether calculating the distance for a drive, establishing the volume of milk in a container, or making price comparisons in a grocery store with different-sized products, algebra is vital for day-to-day decision making. To understand the concepts of algebra is to make oneself more qualified for jobs, more capable of handling finances, and more literate in the realm of problem-solving.

I. PREREQUISITES

MATH 100

II. REQUIRED RESOURCE PURCHASE

Click the following link to view the required resources for the term in which you are registered: <http://bookstore.mbsdirect.net/liberty.htm>

III. ADDITIONAL MATERIALS FOR LEARNING

- A. Computer with Internet access (broadband recommended)
- B. Microsoft Word (Microsoft Office is available at a special discount to LU students.)
- C. A scientific calculator is allowed, but not required.

IV. MEASURABLE LEARNING OUTCOMES

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

- A. State and apply definitions, postulates, and theorems related to the various concepts listed in the Course Description.
- B. Apply the appropriate mathematical skills for the concepts listed in the Course Description in mathematical problems and problem solving.
- C. Appreciate what mathematics can enable one to accomplish in the sciences, business, and various other fields of study.

- D. Demonstrate the ability to apply the knowledge acquired through problem solving and/or graphing.
- E. Demonstrate mathematical proficiency by simplifying expressions or solving equations that require applying the concepts listed in the Course Description.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

A. Textbook readings and assignment presentations

Students should complete the textbook reading for each chapter prior to engaging in the MyMathLab Exercises, quizzes, and tests. The reading sets the foundation for the ideas in each area of the course. The video lectures in MyMathLab help students gain a better understanding of tougher concepts. The Presentations in the Reading & Study folders will help students prepare for the four tests.

B. Discussion Board forums (3)

At specific times students will be asked to engage in the Discussion Board forums to communicate relevant information to the instructor and the other students pertaining to math concepts. Students must submit a thread answering the forum question by Thursday night and then reply to another student's thread by Monday night.

C. Homework Exercises (30)

Students will complete all graded homework in MyMathLab and not the textbook. After finishing the textbook reading for a section, students will complete assigned homework problems using MyMathLab. Students may attempt to correctly answer homework problems more than once. The textbook and other notes may be used when completing the homework. Each assignment may be attempted as many times as needed. Students must obtain a score of 70% or better on each homework in order to take the section quizzes and chapter test. If students have not achieved 70% on each homework, they must discuss the material with the instructor.

D. Quizzes and Tests

There are 8 section quizzes and 4 chapter tests. Students can take quizzes and tests at any time after they have completed all the previous homeworks in MyMathLab with a score of 70% or better. Students have 3 attempts per quiz and only 1 attempt per test. Students may not use the textbook or other notes when taking a quiz or test. Students will not be granted access to the test until they have obtained a score of 50% on the test review. A password will be provided by the instructor in order for the student to access the tests.

E. Comprehensive Final Exam

By Friday at 11:59 p.m. (ET) of the last week of the course, students will need to complete a comprehensive final exam using MyMathLab. No text, notes, graphing calculators, or any outside aid can be used while taking this exam. A password will be provided by the instructor in order for the student to access the exam.

VI. COURSE GRADING AND POLICIES**A. Points**

Discussion Board forums (3 at 10 pts each)	30
Homework (30 at 5 pts each)	150
Quizzes (8 at 20 pts each)	160
Tests (4 at 120 pts each)	480
Final Exam	180
Total:	1000

B. Scale

A = 900–1000 B = 800–899 C = 700–799 D = 600–699 F = 0–599

C. Disability Assistance

Students with a documented disability may contact LU Online's Office of Disability Academic Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations.

COURSE SCHEDULE

MATH 110

Textbook: Tobey & Slater, *Intermediate Algebra* (2010).

WEEK/ MODULE	READING & STUDY	ASSIGNMENTS	POINTS
1	Tobey: 2.3, 2.6–2.8 1 presentation 1 video lesson	Course Requirements Checklist Discussion Board Forum 1 My MathLab Orientation Homework Exercises 2.3, 2.6–2.8 Quiz 1	0 10 0 20 20
2	Tobey: 3.1–3.3, 3.5 & 3.6	Homework Exercises 3.1–3.3, 3.5 & 3.6 Quiz 2	25 20
3	Tobey: 4.1 & 4.3 1 article	Discussion Board Forum 2 Homework Exercises 4.1 & 4.3 Quiz 3	10 10 20
4	1 presentation 3 video lessons	Test 1	120
5	Tobey: 5.1 & 5.2	Homework Exercises 5.1 & 5.2	10
6	Tobey: 5.4 & 5.5	Homework Exercises 5.4 & 5.5 Quiz 4	10 20
7	Tobey: 5.6–5.8 1 video lesson	Homework Exercises 5.6–5.8 Quiz 5	15 20
8	1 video lesson	Test 2	120
9	Tobey: 6.1 & 6.2 1 video lesson	Homework Exercises 6.1 & 6.2	10
10	Tobey: 6.3 & 6.4 1 article	Discussion Board Forum 3 Homework Exercises 6.3 & 6.4 Quiz 6	10 10 20
11	1 video lesson	Test 3	120
12	Tobey: 7.1–7.4	Homework Exercises 7.1–7.4	20

WEEK/ MODULE	READING & STUDY	ASSIGNMENTS	POINTS
13	Tobey: 7.5 & 7.6	Homework Exercises 7.5 & 7.6 Quiz 7	10 20
14	Tobey: 8.1 & 8.2 1 video lesson	Homework Exercises 8.1 & 8.2 Quiz 8	10 20
15	2 video lessons	Test 4	120
16	--	Final Exam	180
TOTAL			1000

NOTE: Each course week (except week 1) begins on Tuesday morning at 12:00 a.m. (ET) and ends on Monday night at 11:59 p.m. (ET). The final week ends at 11:59 p.m. (ET) on Friday.