

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 100

FUNDAMENTALS OF MATHEMATICS

COURSE DESCRIPTION

A review of basic arithmetic and elementary algebra. Open to all students but required of students with low scores on Liberty University placement tests and inadequate preparation in mathematics. A grade of C or better is required in order to go on to a higher-numbered mathematics course. This course may not be used in meeting General Education requirements in mathematics. (Developmental Math is a component of the Bruckner Learning Center.)

RATIONALE

Fundamentals of Mathematics is designed as a review of beginning algebra in order to prepare the non-mathematics major who has a very weak background in Algebra I or who has never taken an algebra course.

I. PREREQUISITES

None.

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 and Microsoft PowerPoint
(Microsoft Office is available at a special discount to LU students.)

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 presented.
- B. Apply the appropriate mathematical skills for the concepts presented.
- C. Appreciate what mathematics can enable one to accomplish in science, business, and various other fields of study.
- D. Demonstrate the ability to apply the knowledge acquired by problem solving.

- E. Demonstrate mathematical proficiency by simplifying expressions and solving equations that involve the concepts discussed.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

- A. Textbook readings and assignment presentations

- B. Discussion Board forums (3)

Students will participate in three Discussion Board forums throughout the course. The forums will require the students to write a 100-word thread in response to the instructor's prompt. In the same module/week in which the thread is due, the student will also write a 100-word reply to at least one other classmate's thread. The thread will be due by 11:59 p.m. (ET) on Thursday and the reply will be due by 11:59 p.m. (ET) on Monday.

- C. Homework Exercises (44)

After completing the textbook reading for the assigned module/week, students will complete Homework Exercises using the MyMathLab software. These exercises correspond with the textbook reading. Students must earn a score of 70% on these exercises before taking any quizzes that may be present in that same module/week. Students may use notes from the text, study plan problems, or other help options within the textbook to complete the Homework Exercises. Multiple attempts are permitted. The exercises can be completed early, but they may not be completed after 11:59 p.m. (ET) on Monday of the assigned module/week.

- D. Quizzes (10)

Quizzes will be administered through the MyMathLab software. Each quiz has 10 questions and will be based on the reading and homework of the assigned module/week. There is no time limit for completion. The Homework Exercise in the module/week must be completed first in order to unlock the quiz. Students are permitted to take each quiz up to three times; the highest score will be calculated into the final grade. The use of text, notes, videos, or any outside aid is prohibited when taking all quizzes and tests. Quizzes must be submitted by the end of the assigned module/week.

- E. Tests (5)

Using the MyMathLab software, students will take 5 tests throughout the course. Tests contain 25 questions each and are based on the reading and Homework Exercises. There is no time limit. The use of text, notes, videos, or any outside aid is prohibited. For each test, the student must first take a Test Review and earn a score of at least 50%. The test will remain inaccessible until this minimum score is reached, and the instructor will provide a password to access the test at the appropriate time.

F. Final Exam

Students will need to complete a comprehensive final exam in MyMathLab. A comprehensive final exam review is provided to help prepare students for the actual exam. No text, notes, calculators, or any outside aid can be used while taking this exam. The instructor will provide a password in order for the students to access this exam. The Final Exam must be completed by the last week of the course.

VI. COURSE GRADING AND POLICIES

A. Point distribution

Discussion Board Forums (3 at 10 points each)	30
Homework Exercises (44 at 3 points each)	132
Quizzes (10 at 16 points each)	160
Tests (5 at 100 points each)	500
Final Exam	178
Total	1000

B. Scale

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

C. Assessment Policies

Calculators are **not** permitted for quizzes, tests, or homework.

D. 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 100

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

WEEK/ MODULE	READING & STUDY	ASSIGNMENTS	POINTS
1	Tobey: chs. 0.1–0.3 Video Lesson 0.2 1 presentation	Course Requirements Checklist MyMathLab Orientation Discussion Board Forum 1 Homework Exercises 0.1, 0.2, 0.3 Quiz 1	0 0 10 (3 each) 9 16
2	Tobey: chs. 0.4, 0.5, 1.1, 1.2	Homework Exercises 0.4, 0.5, 1.1, 1.2 Quiz 2	(3 each) 12 16
3	Tobey: chs. 1.3–1.6 Video Lesson 1.5	Homework Exercises 1.3, 1.4, 1.5, 1.6 Quiz 3	(3 each) 12 16
4	Tobey: chs. 1.7–1.9 Chapter Summaries 0 & 1	Homework Exercises 1.7, 1.8, 1.9 Test 1	(3 each) 9 100
5	Notes: Study Skills Tobey: chs. 2.1–2.4 Video Lesson 2.4	Discussion Board Forum 2 Homework Exercises 2.1, 2.2, 2.3, 2.4 Quiz 4	10 (3 each) 12 16
6	Tobey: chs. 2.5–2.7	Homework Exercises 2.5, 2.6, 2.7 Quiz 5	(3 each) 9 16
7	Tobey: chs. 3.1–3.3 Video Lesson 3.3	Homeork Exercises 3.1, 3.2, 3.3 Quiz 6	(3 each) 9 16
8	Tobey: chs. 3.4–3.5 Video Lesson 3.4 Chapter Summaries 2 & 3	Homework Exercises 3.4, 3.5 Test 2	(3 each) 6 100
9	Notes: Math Anxiety Tobey: chs. 4.1–4.3	Discussion Board Forum 3 Homework Exercises 4.1, 4.2, 4.3 Quiz 7	10 (3 each) 9 16
10	Tobey: chs. 4.4–4.6 Chapter Summary 4	Homework Exercises 4.4, 4.5 - 4.6 Test 3	(3 each) 6 100

11	Tobey: chs. 5.1–5.4 Video Lesson 5.2	Homework Exercises 5.1, 5.2, 5.3, 5.4 Quiz 8	(3 each) 12 16
12	Tobey: chs. 5.5–5.7	Homework Exercises 5.5, 5.6, 5.7 Quiz 9	(3 each) 9 16
13	Tobey: chs. 6.1–6.3 Video Lesson 6.1 Chapter Summaries 5 & 6	Homework Exercises 6.1, 6.2 - 6.3 Test 4	(3 each) 6 100
14	Tobey: chs. 7.1–7.3 Video Lesson 7.3	Homework Exercises 7.1, 7.2, 7.3 Quiz 10	(3 each) 9 16
15	Tobey: ch. 7.4 Chapter Summary 7	Homework Exercise 7.4 Test 5	3 100
16	All Chapter Summaries	Final Exam	178
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.