

Instructor: Dr. Joanna Robinson
Office EC 3.206 Tel. (972)883-2278
E-mail: joanna@utdallas.edu
Office hours: MWF 11:00 - 11:45 a.m., T R 4:50 – 5:20 p.m.
or by appointment

This is a special section of college algebra for students NOT continuing to Precalculus or Calculus. It is acceptable, however, for students continuing to STAT 1342.

Textbook: **Robert Blitzer: Thinking Mathematically, 3rd ed.**
Student Solutions Manual is recommended.

Main topics: Problem solving and critical thinking.
Set theory.
Logic.
Number theory and the real number system.
Equations, inequalities and their applications.
Functions, graphs and their applications.
Consumer mathematics.

As part of this syllabus students are given a list of problems they are required to do. The student Solutions Manual provides detailed solutions to all those problems. However, to derive the maximum benefit, students should solve the problems before turning to the student solutions Manual to check their work.

Tests: There will be two major tests and a comprehensive final.

Test I Friday, February 17
Test II Friday, April 7
Final Exam: Friday, April 28 at 9 a.m.

There will be no make-ups, except in extraordinary circumstances.

Grading: Mid-terms 60%
Comprehensive final 40%

Note: If it is to the student's advantage, the grade on the final exam will be used to replace one of the test grades.

To succeed in this course one has to do a large number of problems.

Here is a list of selected odd-numbered problems which all the students should do. The answers to those problems are in the book and solutions are in the Solution Manual.

Sec. 1.1 : # 1, 3, 5, 7, 9, 15, 19, 21, 25, 33, 35, 45, 47;

Sec. 1.2: # 1, 5, 9, 17, 21, 27, 29, 31, 33, 37, 41, 45, 47, 49

Sec. 1.3 : # 1, 3, 5, 7, 9, 15, 19, 21, 23, 25, 27, 31, 39, 45;

Sec. 2.1 : # 1, 5, 7, 9, 11, 15, 17, 19, 31, 33, 37, 39, 41, 59, 65, 67, 71, 73, 75, 77, 83;

Sec. 2.2 : # 1, 5, 11, 13, 15, 17, 19, 23, 25, 29, 35, 37, 41, 43, 47, 51, 57, 61, 63, 69, 73, 87;

Sec. 2.3 : # 1, 3, 5, 9, 17, 19, 21, 23, 25, 27, 57, 59, 61, 63;

Sec. 2.4 : # 25, 27, 29, 31, 33, 35, 39, 65, 69;

Sec. 2.5 : # 1, 3, 5, 7, 11, 13, 19, 23, 25;

Sec. 3.1 : # 1, 3, 5, 7, 11, 13, 15, 17, 19, 21, 27, 29, 31, 33, 35;

Sec. 3.2 : # all odds 1-31;

Sec. 3.3 : # 3, 11, 13, 17, 19, 33, 35, 37, 39, 43, 47;

Sec. 3.4 : # 9, 11;

Sec. 3.5 : # 7, 9, 19, 21, 23, 43, 45, 57, 59, 61;

Sec. 3.6: # -----

Sec. 3.7: # 3, 5, 7, 9, 11, 13, 15, 17, 21, 25;

Sec. 5.1: # 25, 27, 31, 47, 49, 59, 61, 71, 75;

Sec. 5.2: # 3, 7, 9, 11, 13, 15, 21, 25, 27, 29, 33, 35, 39, 41, 43, 45, 51, 55, 59, 67, 71, 73, 83, 87, 89, 91, 95, 101, 103, 105, 107;

Sec. 5.3: # 1, 3, 7, 13, 15, 19, 25, 31, 33, 39, 45, 51, 59, 61, 65, 75, 77, 81, 87, 91, 101, 111, 113;

Sec. 5.4: # -----

Sec. 5.5: # 13, 15, 17, 19;

Sec. 6.1 : # 1, 3, 5, 7, 15, 31, 33, 35, 39, 43, 47, 49, 51, 53, 55, 61, 63, 67, 75, 77, 79;

6.2 : # 3, 5, 9, 15, 21, 29, 33, 39, 43, 81, 87;

6.3 : # 1, 3, 5, 13, 15, 19, 23, 35, 37, 39, 43, 45, 47, 49, 55;

6.4 : # 1, 7, 9, 11, 17, 19, 25, 29;

6.5 : # 3, 5, 9, 13, 25, 35, 41, 47, 55, 59, 61, 65, 67, 75;

Sec. 7.1 : # 1, 3, 5, 9, 11, 23, 25, 31, 33, 43, 57, 59, 69, 71;

7.2 : # 1, 5, 7, 21, 23, 27, 43, 45;

Sec. 8.1 : # 1, 5, 7, 11, 13, 17, 19, 21, 25, 27, 29, 35, 37, 39, 41, 43, 49, 51, 53, 57, 59, 61, 65 ;

8.2 : # 1, 3, 7, 11, 13, 15, 21, 31;