

SPSU: FALL 2012 SYLLABUS MATH 1111 COLLEGE ALGEBRA Section 12

Prerequisite: Placement by the Mathematics Assessment Test (MAT)

Content: A functional approach to algebra which incorporates the use of appropriate technology. Review of symbolic manipulation and solutions of equations and inequalities. Linear, quadratic, polynomial, exponential and logarithmic functions, graphs and applications. A grade of C or better is required for course credit.

Section 12 (CRN 8995): Time: 7:30-9:10 pm; Tuesdays and Thursdays; **Location:** Room D 125

Instructor: Dr. Bi Roubolo Vona Office: D152

Office Hours: M W: 1:00-1:50 PM; T R: 4:20-5:20 PM, and by appointment (limited)

Tel #: 678-915-7337 **Email:** bvona@spsu.edu

Assessment:

Four Tests (pick best 3): 20% each.

Weekly Quizzes: 10%

Final exam (cumulative): 25%.

Attendance & Participation: 5%

Standard Grade Scale: 90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; Below 60 = F.

A homework assignment shall be given every Thursday. A short quiz will be given in class at the beginning of the class on the following Tuesday on the topics of the homework. Homework will not be collected. There will be no make up for the weekly quizzes. The lowest three (3) quiz grades will be dropped. Additional homework practice problems are listed on page 2 of this syllabus. Any request for a make-up for a regular test (not quiz, not final exam) must be received by the instructor prior to the starting time of the scheduled test. Students are restricted to at most one make-up test (not quiz).

Text book: Precalculus by Paul Sisson, ed. 2006; **Required calculator:** TI-83/ TI-84 Family of calculators. The required calculator is the only calculator that may be used on tests and the final exam.

Learning Outcomes: Upon completing this course students should be able to:

1. Produce solutions to various algebraic equations.
 2. Demonstrate the use of elementary graphing techniques.
 3. Use theorems of algebra to analyze the zeros of polynomials.
 4. Describe exponential and logarithmic functions.
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Miscellaneous Dates:

- **Classes begin:** Wednesday, August 15, 2012
- **Labor Day Holiday:** Monday, September 5, 2012
- **Last day to withdraw with a grade of W:** Thursday, October 4, 2012
- Wednesday, November 21, 2012, **no classes**
- **Thanksgiving Holiday:** Thursday, November 22 – Friday, November 23, 2012
- **Last Day of Class:** Monday, December 3, 2012
- **Final Exams:** December 5-December 8, 2012 (Exact Date and time to be determined).

Quiet Learning Environment: Telephones, pagers, and other communication devices must be set for inaudible signal while in the classroom. Eating, foul language and excessive talking, and unauthorized visitors will not be tolerated. The instructor reserves the right to exclude student(s) exhibiting such disruptive behavior from the class session.

Students with disabilities who believe that they need accommodations in this class are encouraged to contact the counselor working with disabilities at 678-915-7244 as soon as possible to better insure that such accommodations are implemented in a timely fashion.

College Algebra Syllabus Math 1111

Southern Polytechnic State University

Math 1111 Practice Exercises from Precalculus by Paul Sisson.

Note: C means a Calculator is allowed, otherwise the exercises should be done without a calculator.

- 1.1 p. 14:** 2, 3, 6, 7, 9, 12, 13-17, 19, 20, 24, 37-42, 43-55 odd, 63-89 odd.
1.2 p. 36: 1-11 odd, 12, 14, 17-25 odd, 26, 32, 33-39 odd, 52-54, 57, 58, 65-72, 76-90 even, 93-111 odd.
1.3 p. 51: 1, 3, 4, 5, 8, 10, 11-29 odd, 30-40 even, 41, 42, 43-57 odd.
1.4 p. 61: 1, 3, 5, 6, 8, 9-14, 15-35 odd, 38, 39, 42.
1.5 p. 69: 1-13 odd, 16-22 even, 25, 26, 28, 29, 32-37, 40-43, 45, 49, 51.
1.6 p. 79: 1, 2, 4-7, 9, 13, 14, 17, 18, 23-35 odd.
1.7 p. 93: 1, 2-8 even, 11-19 odd, 20, 23, 24, 25-35 odd, 38, 41-47 odd, 48, 55, 60, 61, 69, 71, 72, 73, 76, 77, 79, 80, 81, 83.
1.8 p. 109: 2-4, 7, 10-12, 14, 15, 17, 19, 20, 24, 25-43 odd, 50, 57-71 odd, 75-77, 81, 83-86.
- 2.1 p. 136:** 1-47 odd
2.2 p. 144: 1-39 odd
2.3 p. 154: 1-49 odd
2.4 p. 161: 1-39 odd
2.5 p. 160: (optional) 1-43 odd
2.6 p. 176: 1-55 odd
- 3.1 p. 201:** 3, 4, 7, 8, 11, 12, 15, 16, 19, 20, 22, 23, 27, 28, 31, 32, 35, 36, 39, 40, 43, 44, 49, 50, 53, 54, 57, 58, 61, 62, 66, 67, 72, 73; C: 77, 78, 80, 81
3.2 p. 216: 3, 4, 7, 8, 11, 12, 15, 16, 19, 20, 23, 24, 27, 28, 31, 32, 35, 36, 39, 42, 46, 47, 48, 49, 50, 51; C: 63, 64, 66, 67, 68
3.3 p. 231: 2, 5, 12, 13, 14, 15, 17, 19, 22, 25, 27, 29, 32, 34; C: 38, 41
3.4 p. 238: (optional): 1, 2, 5, 6, 9, 10, 13, 14, 17, 18, 21, 22, 25, 26, 29, 30, 33, 34, 37, 38, 41, 42, 45, 46
3.5 p. 256: 1, 3, 5, 8, 10, 11, 12, 13, 18, 19, 20, 24, 25, 30, 31, 37, 38, 41, 42, 45, 46, 49, 50, 55, 56, 61, 62; C: 64, 69
3.6 p. 269: 1, 4, 7, 8, 9, 12, 13, 14, 19, 20, 22, 23, 26, 27, 31, 34, 35, 38, 41, 42, 45, 48, 51, 54, 55, 56, 64, 67
3.7 p. 282: 2, 3, 5, 6, 11, 12, 13, 14, 17, 18, 20, 21, 23, 26, 27, 29, 30, 33, 36, 41, 43, 46, 53, 54
C: 68, 69
- 4.1 p. 308:** 1, 3, 6, 13, 16, 17, 19, 20, 23, 24, 27, 28, 31, 32, 35, 38, 39, 40, 42, 43, 46, 47, 50, 53-59, 62, 63, 65, 66
4.2 p. 320: 1, 4, 7, 9, 14, 15, 17, 18, 21, 26, 29, 35, 39, 42, 43, 45, 48, 49, 50, 52, 54-56
4.3 p. 335: 1, 2, 5, 6, 10, 12, 16, 19, 21, 22, 25, 26, 30, 31, 32, 36, 37, 39, 41, 42, 45, 48, 58, 59, 63-65, 68, 69, 73-75
4.4 p. 348: 2-4, 7, 8, 10, 13, 16, 17, 19, 22, 25, 27, 28, 32-34
- 5.1 p. 384:** 1-43 odd
5.2 p. 396: C: 1-17 odd
5.3 p. 410: 1-43 odd, 44, 51-59, 61-83 odd
5.4 p. 425: 1-53 odd; C: 55-65 odd
5.5 p. 439: 1-55 odd; C: 74, 75