

Mathematics 103: College Algebra

Spring Semester 2012

Instructor:

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Department of Mathematics

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Office Hours: 10-11 MW, 8:30-9:15 TR, and by appointment

General Information:

Title:	Mathematics 103: College Algebra
Credits:	3 credits
Prerequisite:	Mathematics 102 (or equivalent) or appropriate placement test score
Required for:	Mathematics 105 Mathematics 146
Text:	<i>College Algebra, Precalculus I: Study of Functions</i> , 6 th Edition. Compilation by Lonnie Hass and Larry Taylor. Kendall/Hunt Publishing Company, 2009.
Materials:	Graphing Calculator (TI-84+ or TI-89 is highly recommended) Four large size examination booklets (available at Varsity Mart)

Course Description:

Linear, polynomial, rational, power, exponential and logarithmic functions; graphs of functions, modeling, and problem solving.

Goals:

Students will develop an understanding of the basic algebraic tools and problem-solving skills necessary for success in the study of calculus. In conjunction with Math 105, this course is intended as part of a pre-calculus sequence.

Evaluation:

Grades in the course will reflect students' demonstrated attainment of course objectives.

Approximately:

- 50% of your grade will be based on performance on three term exams.
- 30% of your grade will be based on quizzes, interludes, and in-class work.
- 20% of your grade will be based on the final exam.

The standard 90-80-70-60 grading scale will be used. You should not expect any "curving" of grades.

(over)

Notes:

- Expect at least one quiz each week that there is not an exam scheduled.
- **No make-up quizzes will be given.** Your lowest quiz score will be dropped.
- Approved make-up exams must be completed within one week of the scheduled exam date.
- **Special Needs:** "Any students with disabilities or other special needs, who need special accommodations in the course, are invited to share these concerns or requests with the instructors as soon as possible."
- **Academic Honesty:** All work in this course must be completed in a manner consistent with NDSU University Senate Policy, Section 335 Code of Academic Responsibility and Conduct.
- The Mathematics Department has resource rooms available for any student seeking additional help, free of charge. Hours for these rooms are posted in Minard 412.
- Please frequent Blackboard for announcements, etc. at <http://bb.ndsu.nodak.edu/>

Week	Dates	Topics
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1	Jan. 9 – 13	1.1, 1.2
2	Jan. 16 – 20 No Class Jan. 16	1.3, 1.4, Appendix I
3	Jan. 23 – 27	2.1, 2.2
4	Jan. 30 – Feb. 3	2.3, 2.4
5	Feb. 5 – 10	Catch up, review Exam #1, Feb. 9 (6:30p.m.)
6	Feb. 13 – 17	2.5, 3.1
7	Feb. 20 – 24 No Class Feb. 20	3.2, Appendix III
8	Feb. 27 – Mar. 2	3.3, 3.4
	Mar. 5 – 9	Catch up, review Exam #2, Mar. 8 (6:30p.m.)
9	Mar. 12 – 16 No class	Spring Break
10	Mar. 19 – 23	4.1, 4.2
11	Mar. 26 – 30	4.3, 4.4
12	Apr. 2 – 6 No Class Apr. 6	4.5
13	Apr. 9 – 13 No Class Apr. 9	5.1
14	Apr. 16 – 20	Review/Catch-up Exam #3, Apr. 19 (6:30p.m.)
15	Apr. 23 – 27	5.2, 5.3
16	Apr. 30 – May 4	Cumulative Review
17	May 7	Finals Week Exam May 7, 3:15-5:15

Suggested Practice Problem List
<p>1.1: 1-6, 7, 9-11, 13-15 + Interlude 1.2: 1-5 all, 7, 9, 11-15 all, 17, 19, 20, 21, 23 + Interlude 1.3: 1-3, 5, 10 + Interlude 1.4: 1-12 all + Interlude Chapter 1 Readiness</p> <p>2.1: 1-19 odd, 23, 25, 26 + Interludes 2.2: 1, 3, 5, 11-33 odd + Interlude 2.3: 1, 2, 3, 6-10 all + Interludes 2.4: 1-7 odd, 8, 10, 13, 14, 19-22 all, 23-35 odd + Interludes 2.5: 1-10 all, 12, 14-20 + Interlude Chapter 2 Readiness: Parts 1 and 2</p> <p>3.1: 1-7 odd, 9-41 odd, 45, 47, 49, 57, 59 + Interlude 3.2: 9, 11, 23, 25, 29, 41, 42 Chapter 3 Readiness: Part 1 3.3: 1, 3, 9, 11-31 odd, 37-40 all, 47-50 all, 59 + Interlude 3.4: 3-11 odd, 15, 17-23 all, 25, 27, 29, 31, 37, 39 + Interlude Chapter 3 Readiness: Part 2</p> <p>4.1: 1-27 odd, 39-43 odd, 47, 55 + Interlude 4.2: 1, 3, 5-10 all, 11-41 odd, 45 + Interludes 4.3: 1-33 odd, 37, 39 + Interludes Chapter 4 Readiness: Part 1 4.4: 1-11 odd, 15, 21, 23, 25 4.5: 1-41 odd, 49, 51-59 odd + Interludes Chapter 4 Readiness: Part 2</p> <p>5.1: 1-17 odd, 19, 23 5.2: 1-15 odd 5.3: 1-13 odd</p>