

**New Mexico State University at Grants Campus  
Spring 2007**

**Math 120-02: Intermediate Algebra**

**3 Cr.**

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Office Hours: 8:55 – 9:55 MTuWTh; 4:00 – 4:30 MW; 2:45 – 3:15 TuTh or by appointment

Text: Intermediate Algebra: 10th Edition, by Marvin L. Bittinger

Class Place & Time: MH 104, TuTh, 1:00 – 2:40 p.m.

Overview: MATH 120 is designed for students who have had the equivalent of a good high school algebra course but need to improve their algebra skills before proceeding to higher level mathematics. Students who have successfully completed Math 120 should be prepared to take MATH 121, STAT 251G, MGT 225 or CHEM 111. The prerequisite for Math 120 is a grade of "C" or better in CCDM 113N or CCDM 114N, or a score greater than 71 and less than 103 on the Algebra portion of the Computerized Placement Test.

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

- ◆ Solve linear, quadratic, rational, radical, exponential, and logarithmic equations.
- ◆ Graph linear, quadratic, exponential, and logarithmic functions.
- ◆ Simplify linear, polynomial, and rational algebraic expressions using addition, subtraction, multiplication, division, and factoring.
- ◆ Use problem solving skills to solve applied problems using linear, quadratic, radical, exponential, and logarithmic functions as a model.
- ◆ Solve a system of equations in two variables and use as a model to solve applications.
- ◆ Determine the domain and range of a function.
- ◆ Solve and graph linear inequalities in two variables.
- ◆ Solve applications problems that involve direct, inverse and joint variation.

Instructional Activities: Learning activities will consist of lectures; classroom discussion; working problems in class, collaborative learning activities, homework activities, quizzes; preparing for, taking, and reviewing tests; and preparing for and taking a comprehensive final exam.

Evaluation: Your final semester grade will be determined by the following:

- ◆ Homework/Labs – 15% of final grade
- ◆ Attendance/Participation – 5% of final grade
- ◆ Five Unit Exams – 60% of final grade
- ◆ Comprehensive Final – 20% of final grade

Grading Scale:

100% – 90%	A
89% – 80%	B
79 %– 70%	C
69%– 60%	D
59% and below	F

**\*Note:** In order to proceed to the next course you must pass CCDM MATH 120 with a C or better

Homework: Homework exercises will involve working exercises from the text after the appropriate material has been covered in class (see course outline for specific dates). Upon handing in assignments, they should be in order and stapled, and it should be clear to the reader which answers go with which problems and/or their various parts. All homework assignments must be completed in pencil. If you submit homework with only answers and no work you will receive a zero for that assignment. Assignments should be handed in at the beginning of the class period for which they are due. **Late homework will not be accepted; a score of zero will be awarded for a homework assignment not handed in on time.** If you are absent, you are still responsible for turning in your assignment for that day. You are also responsible for the next class period's assignment too.

Exams: There will be five unit exams. All exams except unit 5 can be taken in the Math Lab, room MH111 or the CTL, room 125. The Unit 5 and the final exam will be taken in class. If you fail to take a test by the deadline, you will be given a zero for that test. All exams must be returned to me. Exams may not be retaken so study for each test by doing the recommended review exercises and reviewing your graded homework. There will be no make-up tests. In exceptional cases, you may be able to take an exam early, but never late.

Quizzes: There will be short quiz at the beginning of each class. This will be your chance to collect points that can be used to replace low homework grades. A collection of 60 points = 1 homework assignment at 100%. At the end of the semester, each student can redeem points in exchange for one homework assignment scored at 100%. It is the student's responsibility to keep track of points and original quizzes to submit at the end of the semester. No quizzes, no points!!!! I will not be keeping track of quiz points. Quizzes can not be made up or retaken.

Attendance: Your attendance is mandatory. You are responsible for all class activity whether you are in class or not. You are also responsible for turning in your assignment. You may have someone bring your homework to me, fax it to me (287-2329) or email it to me. See the syllabus addendum for more information.

Calculator: A graphing calculator is recommended for this course, preferably at TI-83 plus or TI-84. I will use a TI-83 Plus in class. You may borrow one from the math department. See me for more information.

Cell Phones: Cell phones and pagers must be turned off. If yours rings during class, you will be expected to take your possessions and leave class for the day.

Inclement weather: In the event of bad weather, please check our website <http://grants.nmsu.edu/> , refer to the local TV stations or the local radio station KMIN for possible delays or closures.

### **Important Dates to Remember:**

**Last day to drop a course with a "W".....Monday, March 12, 2007**

**Spring Break-No Class.....March 19 – 23, 2007**

**Last day to Withdraw from the University.....Friday, April 20, 2007**

## SYLLABUS ADDENDUM

- The instructor may modify this syllabus to meet the needs of a particular class.
- If you have, or believe you have, a disability and would benefit from any accommodation(s), you may wish to register with the Student Services Office on the first floor of Martinez Hall. All medical information will be treated confidentially. After you have registered, please make sure that I receive a copy of the accommodation memorandum from Student services within the first two weeks of class. It will be the student's responsibility to inform me or the office of Student Services (in a timely manner) if services/accommodations provided are not meeting your needs. Feel free to call Ms. Irene Lutz; Campus Student Services Officer at 287-6629 with any questions about the Americans with Disabilities Act (ADA), and/or Section 504 of the Rehabilitation Act of 1973.
- If you have a condition that may affect your ability to exit safely from the premises in an emergency or that may cause an emergency during class, you are encouraged to discuss any concerns with Ms. Irene Lutz; Campus Student Services Officer at 287-6629.
- Any student found guilty of academic misconduct shall be subject to disciplinary action. Academic misconduct includes, but is not limited to, the following actions: cheating; helping other students cheat; plagiarism; unauthorized possession of examinations, reserve library materials or laboratory materials; unauthorized changing of grades on an examination, instructor's grade book or grade report; nondisclosure or misrepresentation in filling out applications or other college records. The following disciplinary actions and sanctions may be imposed for any of the above infractions of regulations: Disciplinary Probation, Disciplinary Suspension, Dismissal, and Expulsion. At the very least, academic misconduct may result in a failing grade in this class.
- Students are expected to attend regularly all classes for which they are registered. When the number of absences is excessive and hinders a student's progress, the instructor may recommend expulsion from the class. For a 15-week course, that means more than three consecutive absences or five cumulative absences. Based on the recommendation of the instructor, and with the concurrence of the Campus Instructional Officer and the Campus Student Services Officer, a student will be dropped for persistent absences or for persistent failure to complete class assignments. Similarly, a student may be dropped for behavior that interferes with the educational environment of the class. Any student who has been dropped has the right to appeal through the student Academic Grievance Policy (see Student Handbook).

## Tentative Course Schedule

Material from the text will be covered as follows. Please read and take notes on each section to be covered before coming to class. Homework will be assigned after the section has been covered in class.

Th	1/18	1.1	Tu	3/13	5.5, 5.6, 5.7
Tu	1/23	1.2, 1.3	Th	3/15	5.8
Th	1/25	1.4, 1.5	<b>F</b>	<b>Exam 3 (Ch 4&amp;5) DUE</b>	
Tu	1/30	1.6	Tu	3/27	6.1, 6.3
Th	2/1	2.1, 2.2	Th	3/29	6.4, 6.5
<b>F</b>	<b>2/2</b>	<b>Exam 1 (Ch 1) DUE</b>	Tu	4/3	6.6, 6.7
Tu	2/6	2.3, 2.4	Th	4/5	7.1, 7.2
Th	2/8	2.5, 2.6	Tu	4/10	7.3
Tu	2/13	3.1, 3.2	Th	4/12	7.6 & Review
Th	2/15	3.3, 3.4	<b>F</b>	<b>4/13</b>	<b>Exam 4 (Ch 6 &amp;7) DUE</b>
Tu	2/20	3.7	Tu	4/17	8.1, 8.2
Th	2/22	Review	Th	4/19	8.2, 8.3
<b>F</b>	<b>2/23</b>	<b>Exam 2 (Ch 2 &amp; 3) DUE</b>	Tu	4/24	8.4, 8.5
Tu	2/27	4.1, 4.2, 4.3	Th	4/26	8.6, 8.7
Th	3/1	4.4, 4.5, 4.6	Tu	5/1	8.7 & Review
Tu	3/6	4.7, 4.8	Th	5/3	<b>Exam 5 (Chapter 8) in class</b>
Th	3/8	5.1, 5.2, 5.3	<b>Th</b>	<b>5/10</b>	<b>Comprehensive Final Exam in Class</b>