

**STUDENT SUPPORT SERVICES MATH 1010**  
**INTERMEDIATE ALGEBRA FALL 2009**

**INSTRUCTOR:** Marie Donigan  
**OFFICE:** University Inn 103/137  
**PHONE:** 797-0595

**OFFICE HOURS:** MTWF 2:30-3:30, R 8:30-10:00  
or by appointment  
**EMAIL:** marie.donigan@usu.edu

**COURSE OBJECTIVES:** Intermediate Algebra is designed to give students the algebra skills and understanding necessary in fulfilling their university QL requirement. A grade of a C or better is required in order to take any QL course.

**PREREQUISITES:** An ACT math score of at least 23; OR a passing grade in MATH 0900; OR a passing score on the math placement exam.

**TEXT:** *Intermediate Algebra*, Tenth Edition, by Lial, Hornsby, and McGinnis (Older texts won't work)

**TOPICS COVERED:** Topics of study include linear equations and inequalities; introduction to functions; quadratic equations; polynomial and rational expressions; radicals and complex numbers; exponential expressions (negative and rational exponents) and logarithmic expressions; linear systems of equations; parabolas and circles. **Graphing will be done by hand.** Real world applications of algebra will be addressed throughout the course.

**ATTENDANCE:** (5% of your grade) Attendance in class is crucial. Class-time will be spent answering question about homework and discussing new material. Students are encouraged to ask and answer questions and to participate in classroom discussions and activities. It should be noted that it is impossible to cover textbook material in the same depth that it is presented in the textbook itself. Students are expected to study the textbook to learn information not presented in class. Students who must miss class are responsible for contacting the instructor in advance, making arrangements to turn in assignments that are due, and getting notes for missed lectures. Students who miss class repeatedly or fail to consult with the instructor will be referred to the director, Nazih Al-rashid.

**HOMEWORK:** (100 pts) **This is your best preparation so make it count.** Homework (HW) will be assigned and collected daily.

- **HW is due the NEXT CLASS MEETING** after it is assigned.
- Your **NAME** should appear at the top.
- **HW IS EXPECTED TO BE NEAT AND EASY TO READ.** If it is hard to read, it will receive a **NO CREDIT**. (Erase mistakes – don't "scratch" them out.)
- **SHOW ALL STEPS. Showing NO WORK will receive NO CREDIT**
- **Start with (copy) the original question you are asked to work.**
- **Answer all questions that are asked.**
- **Staple multiple pages together.**
- **No loose edges torn from a spiral notebook.**
- Your four lowest written HW scores will be "dropped"
- **LATE HOMEWORK WILL NOT BE ACCEPTED.** NO EXCUSES.

**WEEKLY QUIZZES:** (10 pts each) **IN-CLASS QUIZZES** will be given frequently without advance notice. Your 10 best quiz scores will be counted. **These cannot be made up except in documented emergencies.**

**EXAMS:** (100 pts each) **Four** midterm exams and a departmental comprehensive final exam will be given. Make-up exams **will NOT be given** except in emergencies, and then you must obtain prior consent from the instructor. **Calculators of any kind are NOT allowed on exams.**

**Test Corrections:** (25 pts each ) All students are required to do corrections on every exam. These will be due one week after the exam is returned. Complete instructions for doing test corrections will be given when the first exam is returned. In the past, students have found this to be a valuable learning experience. It is also motivation to do well on the exam so that the correction process is minimized.

**FINAL EXAM:** (200 pts) The common final exam emphasizes chapters 9, 10, & 11 (~50%) as well as a comprehensive review of major topics covered earlier. The final will count 25% of your grade.

**GRADING:** Attendance - 5%, Homework - 10%, Quizzes - 10%, Midterm Exams - 40%, Test Corrections - 10% and Final Exam - 25%.

**DROP POLICY:** The USU Drop Policy has changed. See the General Catalog and Schedule Bulletin for more details. **Students who fail to attend classes the first five days of school may be dropped from that class by the instructor. It is still the student's responsibility to add the class again, or drop a class they do not attend.**

**SPECIAL NEEDS:** If you have a disability that will likely require accommodation for this course (relating to attendance, pedagogy, exams, alternate format – large print, audio, diskette, Braille, etc.), contact Mrs. Donigan immediately (first week of class) **AND you must document the disability through the Disability Resource Center.** All such requests must be discussed with and approved by Mrs. Donigan .

**CELL PHONES, BLACKBERRYs, IPODs, MP3 PLAYERS, etc.**

The policy of the Department of Mathematics and Statistics is that, unless an examination requires a specific technology device, no electronic devices can be activated and positioned where they can be seen or used during a test. In particular, **cell phones must be turned off and placed inside bags, or left with the instructor.** Cell phones should not be in pockets or attached to belts during a test. The same is true of any wireless capable device. Furthermore, headphones cannot be worn. A student found to be violating this policy would automatically receive a score of zero on that test and may be subject to further disciplinary action.

Day	Section	Page	Assigned Problems (Word Problems are <u>underlined</u> )
Aug 24	2.5	108	7,8,14,17,19,20,21,23,26,29,34,35,38,40,41,54,55,58,59,65,66, <u>70,71,73,78</u>
26	2.6	119	8,10,13,14,15,17,20,25,26,28,31,33,34,35,40,41,43,45,46,48,50,52,54,59,61, <u>64,65,68</u>
27	2.7	128	11,12,16,17,20,25,28,29,32,33,34,39,40,42,43,46,52,53,57,67,68,71,74,77,80,83,94, <u>95,98</u>
28	3.1	156	2-9,27-30,35-38,41,42,44,45,50,57,62,66,67,70, <u>72</u>
	3.2	170	2,4-10,22,27,28,32,34,35,43,46,47,49,54,55,58,60,61,65,68,74, <u>82,87,89</u>
31	3.3	187	17,20,22,25,28,35,38,42,43,45,48,50,53,54,56,58,66,67,70,72,77, <u>80,81,82</u>
Sept 2	3.4	197	5,7,9,10,12,13,15,18,19-24,27-34
3	3.5	210	1,2, <u>7-22 (Explain your reasons for the answer)</u> ,24,26,29,33,37,41-55,63-67,69,75,78, 80, <u>86</u>
4	4.1	237	7-12,14,18,19,21,28,30,31,34,36,37,41,43,44,46,48,49,52,53,56,58,60,63,66, <u>75,76</u>
<b>Sept 7</b>			<b>LABOR DAY HOLIDAY NO CLASSES</b>
9	4.2	249	3,6,11,14,15,19,21,26,27,29,31,34,35,36,38, <u>44</u>
10	4.3	259	<u>3-8,11-14,18,19,21,23,24,27,28,33,36,38,39,43,44,47</u>
<b>11</b>	<b>Review</b>	<b>144 223 281</b>	<b>Chapter 2 Test 13-28 Chapter 3 Test All Chapter 4 Test 1-16</b>
<b>Sept 14</b>	<b>Exam #1</b>		<b>This covers sections 2.4 – 4.3 (No Calculators Allowed)</b>
16	5.1	296	10-15,22-28,39,42,44,48,53,56,63,67,76,83,85,88,93,101,107,108,113,117,128, 131,134,139,142,146,148, <u>157,159</u>
	5.2	306	22,23,26,32,35,39,42,48,51,54,56,60,61,73,76,79,81,84
17	5.3	315	5,8,9ab,15,16,19,20,25,28,30,35,37,40,41,42,44,48,49,55
18	5.4	324	6,8,13,14,15,19,34,35,36,40,41,42,48,49,52-55,57,60-63,66,67,71,73,75,97,98,113, 116,120
Sept 21	5.5	332	9-12,18,21,26,29,33,37,39,41,43,45,50,63,66
23	6.1	350	3-60 (Multiples of 3: 3, 6, 9, 12, etc.)
24	6.2	358	6,9,12,15,17,21,23,26,28,32,35,36,38,41,44,45,48,49,50,53,54,57,59,63
25	6.3	364	7,9,12-15,17-20,22,23,25,27,28,30,31,33,36- 43,45,47,51,53,54,56,58,59,60,61,62
	6.4	368	2-6,8,9,11,12,15-19,22,23,26,27,29,30,34,37,40,41,45-49,52,62,63,65,66,68,70
Sept 28	6.5	376	3-45 (Multiples of 3),49, <u>57,60,65,66</u>
<b>30</b>	<b>Review</b>	<b>341</b>	<b>Chapter 5 Test All Chapter 6 Test All</b>
<b>Oct 1</b>	<b>Exam #2</b>		<b>This covers sections 5.1 – 6.5 No Calculators Allowed</b>
2	7.1	397	7,8,11,15,20-55 (Multiples of 5),63-90 (Multiples of 3)
Oct 5	7.2	407	3,6,8,11,13,15,19,25,36,41,44,48,51,53,55,58,60,61,68,69,73,75
7	7.3	416	5,7,9,11,14,16,18,19-24,33-37
8	7.4	423	1,4,7,8,12,15-17,19,21,26,30,32,33,35,39,41,42,45,48, <u>51,52</u>
9	7.5	435	5,7,8,10,15,23-26,28 (nearest tenth of an inch),33,35,38,39,43,45,47,50,51, 53,56,60
Oct 12	7.6	446	10,12,14,16-19,22,26,27,30,31,34,35,39,42,46
14	8.1	471	9,10,14-40 EVEN,41,44,45,47,50-60 EVEN, 61-64,67,68, <u>83</u>

Day	Section	Page	Assigned Problems
15	8.2	479	12–36 EVEN,38,39,43,47,53,54,57,58,59,61,63,64,66,69,72,75,77,78,81,85,89,95
<b>Oct 16</b>	<b>FALL BREAK – NO CLASSES</b>		
Oct 19	8.3	489	10,13,18,19,24,25,30,31,32,36,41,44,49,52,54,56,58,63,64,68,69,72,82,85,91,99,101, 106,110,114
21	8.4	496	5,10,15,20,22,25,30,35,39,44,49,54,59,62,64
22	8.5	504	10,15,20,23,27,29,39,45,49,55,61,69,75,81,83,98
23	8.6	514	9,11,15,21,25,30,33,39,42,45,48,51,54
Oct 26	8.7	521	9,13,15,17,21,27,31,35,41,47,53,59,61,68,69,77
<b>28</b>	<b>Review</b>	<b>460 533</b>	<b>Chapter 7 Test All Chapter 8 Test All</b>
<b>Oct 29</b>	<b>Exam #3</b>	<b>This covers sections 7.1 – 8.7 No Calculators Allowed</b>	
30	9.1	545	5,10,15,20,28,44,45,46,49,50,55,65,70,75
Nov 2	9.2	554	5,10,15,20,25,27,32,35,42,48,53
4	9.3	564	8,9,19,25,33,41,42,43,46,49,68,70
	9.4	573	7,11,18,19,30,32,34,38,43,47,49,56
5	9.5	583	1,2,4 – 7,10,15,16,21,24,45,26,29,30
6	9.6	597	5, 8, 10 – 15,17 – 20,23,27,33,37,40
Nov 9	9.7	608	3,7,11,15,19,23,27,31,35,39,43,47
11	10.1	631	4,9,12,13,15,18,20,25,26,28,29,32,35,38,44,45
12	10.2	641	6-9,17-20,22,25,26
13	10.3	649	3-18,21,23,26,28,29,31,33,34,37,40
Nov 16	10.4	659	8-15,22-25,27,31 AND a supplemental problem set available at <a href="http://www.math.usu.edu/~bryanb">www.math.usu.edu/~bryanb</a> (follow Math 1010 link)
18	10.6	679	25 – 30,33,35,36,37,38,44 AND a supplemental problem set available at <a href="http://www.math.usu.edu/~bryanb">www.math.usu.edu/~bryanb</a> (follow Math 1010 link)
<b>19</b>	<b>Review</b>	<b>620 692</b>	<b>Chapter 9 Test All Chapter 10 Test 1-19; 23-25</b>
<b>20</b>	<b>Exam #4</b>	<b>This covers sections 9.1--10.6 No Calculators Allowed</b>	
Nov 23	11.1	701	5 - 17
<b>Nov 25-27</b>	<b>THANKSGIVING BREAK – NO CLASSES</b>		
Nov 30	11.2	708	3 – 12,15,25,26,29,20,33,34,39,40
Dec 2	11.3	718	1 – 4,7 – 10,15 – 20,25,26,28,29,30
<b>3</b>	<b>Review</b>	<b>Read the chapter summaries and work the chapter tests for practice</b>	
<b>4</b>	<b>Review</b>	<b>Sample Final Exams are available online at <a href="http://www.math.usu.edu/~bryanb">www.math.usu.edu/~bryanb</a> (follow link for MATH 1010)</b>	
<b>DEC 8</b>	<b>FINAL EXAM: 9:30 – 11:20 AM Make sure you know the room of your exam! You cannot reschedule this final!!</b>		