

## COLLEGE ALGEBRA

**Math 1414**

**Fall 2010, 16 Aug – 9 Oct 2010**

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**TEXT:** *College Algebra, Central Texas college edition, College Algebra taken from College algebra, fifth edition by Robert Blitzer and Intermediate algebra, fifth edition by Elayn Martin-Gay.*

**CALCULATOR:** *Any type of TI-83, TI-83 Plus or TI-84 Plus (required!) this is the calculator we use for lecture demonstrations.*

**ATTENDING CLASSES:** Each student is required to attend at least 24 hours out of 32 hours total time of the course. A sign up sheet will be available in the class room. Exams problems will be based on examples given in lecture as well as on the homework.

**GRADING:** You may earn 650 points in this course: 50 points for attending the class, midterm exam, 150 points, 200 points on the comprehensive final exam, 100 points on the bi-weekly homework, 150 points on class work. **Not doing homework or lack of attendance during recitation will lower your final letter grade.**

**EXAM DATES:** Saturday Sept. 04, 2010: Midterm Exam, 12:00 -1:00 pm.

Saturday Oct. 09, 2010: Final Exam, 11:00 –1:00 pm.

**Missed Examinations:** *If you miss or expect to miss any exam for a legitimate reason (for example, a serious illness), then notify the instructor as early as possible prior to the examination.*

**STUDY ADVICE:** Students are expected to attend all classes. Missing class can seriously affect your course grade. It is essential that you attempt the homework problems **before** going to recitation. **Solve lots of problems**, this the best way to solidify your understanding of mathematics and to prepare for exams. If you find you can't do something **ask for help**. All the exam problems will be based on lecture examples and the homework, so it is important that you attend the lectures and take good notes. Do all of the homework and do not throw away the returned homework! Your old homework and lecture notes will help you prepare for exams.

Fall 2010 College Algebra Assignments and Due Dates, Part 1(Tentative)						
Date	Section	Topic	Textbook problems	Practice	Homework problems	Due Date
Week #1	5.1	Exponents, Polynomials, and polynomial functions	6, 10, 24, 27, <b>48</b> , 72, <b>75</b> , <b>98,93 140</b>		5.1:62,96	Homework is always due a week after , and class work is due in class
	5.2	Polynomials, and polynomial functions	13,19, <b>21</b> , 24, <b>36,46,47,82</b> , 107		5.2:55,22, 45,55,83,103 5.3:31,33, 100	
Week #1	5.3	Polynomials	13, 19,21, <b>30</b> , 32, 39, 42, 81, <b>82, 99</b>		5.4: 44, 80, 114	
	5.4	Multiplying polynomials	6, 8, 10, <b>13</b> , 27,34,94, <b>105</b> , 106		5.5:40,56, ,59,	
Week #2	5.5	GCF and Factoring by grouping	21, 26, <b>39</b> ,50, 58, <b>60,66,49</b> 68,		5.6:35,39,41,43, <b>44,46,48,62</b> ,60, <b>68</b> ,	
	5.6	Factoring trinomials	2, 6, 20, 22, <b>35,38,42,39</b> , <b>48,78</b>		5.7:28, 46,41, 66.,54	
Week#3	5.7	Factoring by special products	1, 3, 22, 32, 40, <b>48,6,11,20,33,45,79,56</b>			

### Fall 2010 College Algebra Assignments and Due Dates, Part 1(Tentative)

Date	Section	Topic	Textbook problems	Practice	Homework problems	Due Date
Week #3	5.8	Solving equations	<u>22</u> , <u>4</u> , <u>37</u> , <u>62</u> , <u>91</u> , <u>92</u> , <u>80</u> , <u>27</u> , 79, 101, <u>102</u>		5.8:38,63,90,81	Homework is always due a week after , and class work is due in class
Week #4	6.1	Rational functions and ...	7,20,24,45, <u>49</u> , <u>61</u> , <u>57</u> , <u>70</u> , 74, <u>75</u> , <u>76</u>		<u>6.1</u> : <u>12</u> , <u>23</u> , <u>36</u> , <u>38</u> , <u>62</u> , <u>71</u>	
	6.2	Adding and subtracting rational expressions	<u>48</u> , <u>56</u> , <u>58</u> , <u>78</u> , <u>91</u>		<u>6.2</u> : <u>92</u> , <u>93</u> ,	

### Fall 2010 College Algebra Assignments and Due Dates, Part 2

Date	Section	Topic	Textbook Practice problems	Homework problems	Due Date
Week #5	6.4	Long division	18, <u>20</u> , 24, 27, <u>37</u> , <u>39</u> , <u>67</u> ,	<u>6.4</u> :10,12,13,77,38,48,49,  <u>6.4</u> :53,69,38,84,  <u>2.2</u> :11,39, 45  <u>3.1</u> :19,25,,27,37,  <u>5.1</u> : 2, 6, 20, 22, 29,30	Homework is always due a week after ,  and class work is due in class
	6.4	Synthetic division	13, <u>22</u> , <u>28</u> , <u>37</u> , <u>39</u> , <u>47</u> , <u>52</u> , <u>67</u> , <u>74</u> , <u>79</u> ,82,83		
Week #6	2.1	Functions and graphs	13, 21, <u>30</u> , 32, 39, 42, 81, <u>82</u> , <u>83</u>		
	2.2	More on functions	6, 31, <u>33</u> , 94,83, <u>89</u>		
Week #7	3.1	Quadratic functions	1-5, <u>5-8</u> ,21, <u>22</u> ,26,36,38		
	5.1	System of equations in two variables	1,4,7,9,10,12,18,29,,		
Week #8		<b><u>Final Review</u></b>  <b><u>Final Exam</u></b>	First two hours of class  Last two hours of class		