Marshall University
MTH 130 Syllabus - OCCHS

Course Title/Number	**College Algebra / MTH 130 Sec 113 (CRN 5028)**
Semester/Year	Fall 2015
Days/Time	NA
Location	MUOnline and Hawkes Learning Systems
Instructor	Dr. Evelyn Pupplo-Cody
Office	Morrow Library 106
Phone	(304) 696-3047
E-Mail	pupploco@marshall.edu
Office/Hours	M, T, W, R 1:30 – 2:30 p.m.
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802
	Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

Course Description: From Catalog

College Algebra. 3 hrs.
Polynomials, rational, exponential, and logarithmic functions. Graphs, equations and inequalities, sequences. (PR: Math ACT 21 or above)

Course Student Learning Outcomes	**How students will practice each outcome in this Course**	**How student achievement of each outcome will be assessed in this Course**
Students will prepare for a course in calculus with analytic geometry.	Students will learn the material by reading the book and watching the videos, practice, and work on certifications. Chapters 1 and 2	Students will take certifications on each section of the book and take an exam on each Unit.
Students will learn how mathematics is used in science and engineering courses.	Students will learn the material by reading the book and watching the videos, practice, and work on certifications. Chapters 4, 5, 6	Students will take quizzes on each section of the book and take an exam on each Unit.
Students will acquire a facility in using graphing calculators to solve mathematics problems.	Students will learn the material by reading the book and watching the videos, practice, and work on certifications. Chapters 2, 3, 4, 6	Students will take quizzes on each section of the book and take an exam on each Unit.
Students will analyze basic concepts such as a function and learn to represent functions verbally, numerically, graphically,	Students will learn the material by reading the book and watching the videos, practice, and work on certifications. Chapters 3, 4, 6	Students will take quizzes on each section of the book and take an exam on each Unit.

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Required Texts, Additional Reading, and Other Materials

- Access code for Hawkes Learning Systems – College Algebra – see attached document for more information.
- College Algebra, 2nd Edition, by Paul Sisson (purchased with access code from Hawkes Learning Systems)
- Notebook
- Calculator

Course Requirements / Due Dates

1. **Exam 1** (MUOnline) and Unit 1 certifications (Hawkes) must be completed by 3:00 p.m. on Oct. 9th
2. **Exam 2** (MUOnline) and Unit 2 certifications (Hawkes) must be completed by 3:00 p.m. on Nov. 13th
3. **Exam 3** (MUOnline) and Unit 3 certifications (Hawkes) must be completed by 3:00 p.m. on Dec. 17th
4. **Cumulative Final Exam** (MUOnline) must be completed by 3:00 p.m. on Dec. 18th

Grading Policy

Each Unit Examination (three exams) will be worth 20% of the semester grade. Certifications will be worth 20% of the semester grade. The comprehensive final exam will be worth 20% of the semester grade. Please note that grades are not rounded.

90.00 – 100   = A
80.00 – 89.99 = B
70.00 – 79.99 = C
60.00 – 69.99 = D
Below 60.00   = F

All certifications will be taken at Hawkes Learning Systems.

To help preserve the integrity of the course, exams will be taken as follows: at MUOnline using Respondus Monitor – instructions for downloading the software are posted in the course. You will need to use a computer with a webcam while using Respondus Monitor. Please see the instructions in the Exam Info folder

in MUOnline. Please check with your school IT person to make sure that this is viable.

Students who wish to take proctored exams in a high school computer lab should contact Dr. Evelyn Pupplo-Cody at pupploco@marshall.edu to make arrangements. Please ask a teacher or librarian to be the proctor.

Attendance Policy

There is no attendance policy for this online course. However all exams have strict due dates that must be met.

Course Schedule

Unit	Sections	Topics	Exercise Pages	Certification (✓)
1	1.1	The Real Number System	11-15	
	1.2	The Arithmetic of Algebraic Expressions	23-27	
	1.3	Properties of Exponents	39-44	
	1.4	Properties of Radicals	56-60	
	1.5	Polynomials and Factoring	71-76	
	1.6	The Complex Number System	83-85	
	2.1	Linear Equations in One Variable	106-111	
	2.2	Linear Inequalities in One Variable	118-121	
	2.3	Quadratic Equations in One Variable	132-136	
	2.4	Higher Degree Polynomial Equations	141-142	
	2.5	Rational Expressions and Equations	152-157	
	2.6	Radical Equations	162-163	
	Exam 1	Due by October 9		
2	3.1	The Cartesian Coordinate System	185-188	
	3.2	Linear Equations in Two Variables	194-196	
	3.3	Forms of Linear Equations	209-213	
	3.4	Parallel and Perpendicular Lines	219-222	
	3.5	Linear Inequalities in Two Variables	230-234	
	3.6	Introduction to Circles	239-241	

	4.1	Relations and Functions	266-270	
	4.2	Linear and Quadratic Functions	281-286	
	4.3	Other Common Functions	299-303	
	4.4	Transformation of Functions	317-321	
	4.5	Combining Functions	330-335	
	4.6	Inverses of Functions	344-348	
	Exam 2	Due by November 13		
3	5.1	Introduction to Polynomial Equations and Graphs	372-376	
	5.2	Polynomial Division and Division Algorithm	386-389	
	5.3	Locating Real Zeros of Polynomials	401-404	
	5.4	The Fundamental Theorem of Algebra	415-418	
	6.1	Rational Functions and Rational Inequalities	443-447	
	7.1	Exponential Functions and their Graphs	514-516	
	7.2	Applications of Exponential Functions	526-532	
	7.3	Logarithmic Functions and their Graphs	541-544	
	7.4	Properties and Applications of Logarithms	555-560	
	7.5	Exponential and Logarithmic Equations	571-576	
	Exam 3	Due by December 17		
	Final Exam	Due by December 18		

For each section I suggest that you:

- **Begin by reading the text for each new section.** The content in Hawkes Learning Systems is not meant to replace the text, but to supplement it.
- **Go to Hawkes Learning Systems to Learn → Practice → Certify.** Each lesson contains definitions and rules, worked problems, and video clips of selected problems.
- **To certify, please practice the new skills, then attempt to certify.** These you may do with your books, notes, and other resources. I am happy to discuss how to solve the problems if you need help.
- **Note:** the score that goes into the grade book for certifying is 100%. The score that goes into the grade book for exams is the exact grade that you have earned.

- **If you are having trouble, please contact me through Marshall's e-mail (pupploco@marshall.edu).** I would be happy to explain to you how to do any of the problems. If you understand the concept being presented, you may be able to skip some of the problems. Only you can be the judge of the work you will have to put in to master the material, but remember that "practice makes perfect."

Upon finishing each unit you will need to take a unit examination and a comprehensive final examination will conclude the course.

Getting Started with Hawkes

Student Directions

Important Information

Instructor Name: _____

Section Name: _____

Do NOT purchase a used License Number or Access Code (from other students or online vendors). License Numbers and Access Codes are registered to the original purchaser only.

Create Your Hawkes Account

Go to **learn.hawkeslearning.com** and click **New User** to create an account.

Step 1: If you have already purchased your materials, enter your License Number (located on the yellow sticker in your materials) or Access Code and click **Validate**.

OR

If you need to purchase an Access Code, use the link to purchase one from the Hawkes website.

        a. Select the option to **Purchase an Access Code**.

        b. Fill out the form with your information.

        c. Click **Submit** to receive your personalized Access Code.

        d. Copy and paste or type your Access Code into the New User Setup page.

Step 2: Fill out the form with your information or confirm the preloaded information.

Step 3: Set your password, time zone, and security questions.

Step 4: Add a profile image.