Marshall University
Syllabus

Course Title/Number	College Algebra-Expanded/MTH 127-142/CRN: 4874
Semester/Year	Fall 2018
Days/Time	MTWRF 1-150pm
Location	MWF SH 437, TR SH 621
Instructor	Jessica Johnson
Office	SH 526B
Phone	(304) 696-6663
E-Mail	briscoe7@marshall.edu
Office/Hours	MWF 10-11, M 12-1, TR 12-1
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." You can also access these policies directly by going to www.marshall.edu/academic-affairs/policies/. Academic Dishonesty/Excused Absence Policy for Undergraduates/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment. **Academic Dishonesty:** If a student behaves academically dishonest in any way, i.e. copying/turning in another's work or cheating on quizzes or exams, I reserve the right to fail the individual. The behavior may be reported to the department chair and/or dean of the college and could result in expulsion from the university. Please refer to your handbook for further details. **Disabilities and/or Special Needs:** Policy for Students with Disabilities: Marshall University is committed to equal opportunity education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disability Services (ODS) in Prichard Hall 117 (304.696.2467) to provide documentation of their disability. Following this, the ODS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experience, outside assignment, testing, and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, access the website for the Office of Disabled Student Services: http://www.marshall.edu/disabled.

| | **Inclement Weather Policy:** Students can find information concerning Marshall's policy regarding inclement weather by following the link http://www.marshall.edu/academic-affairs/policies/#InclementWeather . |

Course Description (from catalog)**:**

| A brief but careful review of the main techniques of algebra. Polynomial, rational, exponential, and logarithmic functions. Graphs, equations and inequalities, sequences. PR: ACT Math 17-20. 5 Credit Hours |

The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.

Course Student Learning Outcomes	How student will practice each outcome in this course	How student achievement of each outcome will be assessed in this course
Students will identify and implement appropriate solution methods for single-variable equations.	Students will practice this outcome by doing homework and in class activities.	Students will be assessed on this outcome using quizzes and tests.
Students will identify and graph standard algebraic functions.	Students will practice this outcome by doing homework and in class activities.	Students will be assessed on this outcome using quizzes and tests.
Students will interpret graphs of functions.	Students will practice this outcome by doing homework and in class activities.	Students will be assessed on this outcome using quizzes and tests.
Students will construct functions to model applications.	Students will practice this outcome by doing homework and in class activities.	Students will be assessed on this outcome using quizzes and tests.
Students will communicate written mathematics using appropriate notation and explanation in English.	Students will practice this outcome by doing homework and in class activities.	Students will be assessed on this outcome using quizzes and tests.

Required Texts, Additional Reading, and Other Materials

| 1. The required text is <u>College Algebra</u> by Paul Sisson, 2nd Edition.
2. A scientific calculator is required for this course. I suggest a TI-30.
3. Students must also have an MU computer account for email. |

Course Requirements/Due Dates

| All due dates can be found in the course schedule. |

Grading Policy

| **Student Assessment:** Students will be assessed using various methods, such as assigned homework and exams. Homework will be completed on Hawkes. Each textbook section |

corresponds to at least one homework (Certify) section in the Hawkes learning system. To sign in, go to learn.hawkeslearning.com and follow the onscreen prompts to enter your code. Many assignments have prerequisite sections that must be completed prior to attempting the assignment. These prerequisites are review and reinforcement of mathematical topics that support the material you are learning in class. They are listed on the course schedule as "Prep work" and you should read through the "Learn" screens and attempt the assignments prior to the lab day they are assigned for. **All assignments must be completed this semester, even if you have some certifications from previous semesters.**

There will be a total of three exams and a common final. The common final will be worth 20% of the student's final grade. The common final will take place on Saturday December 8th from 2pm to 4pm.

		Grading Scale:		
Hawkes (common homework)	20%		100%-90%	A
Exam 1	15%.		89%-80%	B
Exam 2	15%		79%-70%	C
Exam 3	15%		69%-60%	D
Common Final Exam	20%		59% and below	F
Other (Instructors choice).	15%			

Note: Please note that an incomplete cannot be given unless the student completes 75% of the course

Attendance Policy

Attendance will be taken and will be included in the students' final grade. Tests and assignments can only be turned in and/or made up if the student is present or has a university excused absence. Please consult your handbook for excused absences and the required documentation for excuses.

When in attendance I expect each student to behave respectfully. You must not only have respect for me, but respect for your fellow classmates as well. If your actions become disruptive or distracting for me or another student, you will be asked to cease your behavior. If you choose to continue, you will be asked to leave. Disruptive behavior may include, but are not limited to the following: cell phone use in class, talking during class, and the use of iPods or MP3 players during class.

Tutoring Services

Tutoring services are available in Smith Hall 625 daily. The schedule will be posted on the door after the first week of classes. Information and the schedule can also be found by following the link http://www.marshall.edu/math/tutoring/ . I strongly suggest that you take advantage of this **FREE** service.

Course Schedule (tentative)

Week	Monday	Tuesday	Wednesday	Thursday	Friday
Aug 20-24	Syllabus and Introductions 1.1 (Topics 3,4,5)	Prepwork: 1.R.4 LPC: 1.1 Desmos: Compound Inequalities	3.1 (Topics 1,2,3)	Prepwork: 1.R.2, 2.R.1, 2.R.2 LPC: 3.1 Desmos: Pool Border Problem	2.1a (Topics 1,2,4)
Aug 27-31	2.1b (Topic 5)	Prepwork: 4.R.1 LPC: 2.1a, 2.1b Desmos: The Coordinate Plane	2.2 (Topics 1,2,4)	Prepwork: 4.R.2 LPC: 2.2 Desmos: Expression Mash-Up	3.2 (Topics 1,2,3)
Sept 3-7	**University Closed**	Prepwork: 4.R.3 LPC: 3.2 Desmos: Connecting Graps, Equations, & Tabes	3.3 (Topics 1,2,3)	LPC: 3.3 Desmos: Polygraph-Lines	3.4 (Topics 1,2)
Sept 10-14	Review	Review Activities for Test 1 Desmos: Polygraph Lines Part 2	**Test 1**	Prepwork: 5.R.1 LPC: 5.R.2 Desmos: Marbleslides Lines	2.3 (Topics 1,2)
Sept 17-21	2.3 (Topics 1,2)	Prepwork: 5.R.3 Desmos: Picture Perfect	1.6 (Topics 1,2,3)	Prepwork: 1.5 LPC: 1.6 Desmos: Central Park	2.3 (Topic 4)
Sept 24-28	3.6 (Topics 1,2)	LPC: 2.3, 2.6 Desmos: Function Carnival	4.1 (Topics 1,2)	Prepwork: 4.R.4 Desmos: Circle Patterns	4.1 (Topics 3,4)
Oct 1-5	4.2 (Topics 1,2)	LPC: 4.1, 4.2a Desmos: Domain and Range Intro	4.2 (Topic 3)	LPC: 4.2B. 4.3A Desmos: Polygraph Parabolas	4.3a (Topic 1), 2.6 (Topic 1)
Oct 8-12	**Midterm Grades Due** Review	Review Activities for Test 2 Desmos: Polygraph Power, Root, Abs. Val. Functions	**Test 2**	Desmos: Marbleslides Parabolas	4.4 (Topic 1)
Oct 15-19	4.4 (Topic 2)	Prepwork: 6.R.2 LPC 4.4 Desmos: What's My Transformation	2.4 (Topic 2)	Prepwork: 6.R.3 LPC: 2.4 Desmos: Card Sort Transformations	A.1 (5.1; Topics 1,2), A.2 (5.2; Topic 3)
Oct 22-26	A.4 (5.4;Topic 1,2)	Prepwork: 6.R.1 LPC: A.1, A.2, A.4 Desmos: Polygraph Polynomial Pandemonium	2.5 (Topics 1,2,4)	LPC: 2.5 Desmos: Construction Polynomials	**Last Day to Drop** 6.1 (Topics 1,2)
Oct 29-Nov 2	6.1 (Topics 3,4)	LPC: 6.1 Desmos: Polygraph Rational Functions	4.5 (Topic 2)	LPC: 4.5 Desmos: Marbleslide Rationals	4.6 (Topics 2,3)
Nov 5-9	Review	Review Activities for Test 3 Desmos: Inverse Functions	**Test 3**	Prepwork 7.R.1 LPC: 7.R.2 Desmos: Avi and Benita's Repair Shop	7.1 (Topics 1,2,3)
Nov 12-16	7.2 (Topic 3)	Prepwork: 7.R.3 LPC: 7.1, 7.2 Desmos: Polygraph Exponentials	7.3 (Topics 1,4,2)	Desmos: Marbleslide Exponentials	7.3 (Topic 3)
Nov 19-23	**Fall Break** University closed	**Fall Break** University closed	**Fall Break** University closed	**Fall Break** University closed	**Fall Break** University closed
Nov 26-30	7.4 (Topics 1,3)	LPC: 7.3, 7.4 Desmos: Polygraph Exp and Log Functions	7.5 (Topic 1)	Desmos: What Comes Next?	7.5 (Topic 2)
Dec 3-7	8.1 (Topics 1,2,3)	Prepwork: 8.R.1 LPC: 7.5 Desmos: System of Two Linear Equations	8.1 (Topics 2,3)	Review for Final	Review for Final
Dec 10-14	Finals Week	Finals Week	Finals Week	Finals Week	Finals Week

LPC – "Learn, Practice, Certify"

The common final will take place on Saturday December 8th from 2pm to 4pm.