OTTERBEIN UNIVERSITY

Course Number/Section and Title:	MATH 0900-03: Prerequisite to College Math		
Semester and Year:	Fall 2019		
Course Meeting:	MWF	11:30am-12:25pm	Towers 117
	Days	Time	Location
Credit Hours:	3	3	0
	Total Credit Hours	Lecture Credit Hours	Lab Credit Hours (if applicable)

Is this a Travel Course: ☐ Yes ☒ No

Instructor:	Matthew McMullen	mmcmullen@otterbein.edu
	First, Last	Email Address
	Towers 138	(614) 823-1279	faculty.otterbein.edu/mmcmullen
	Office Location/Room #	Office Phone Number	Webpage
	MW 1:40-2:40pm		
	TR 12-1pm		MyMathLab course ID: **mcmullen69598**
	Set Office Hours and Tutoring Hours (also available by appointment).		

Course Catalog Description
Beginning and intermediate algebra topics: polynomial arithmetic and factoring; integer and rational exponents; linear equations and inequalities in one and two variables and their graphs; absolute value equations and inequalities; systems of equations; introduction to functions; quadratic equations; rational and radical expressions (including complex numbers) and equations; applications and models.
(*Note: Course/hours do not count towards degree*.)

Course Objectives
Upon successful completion of this course, students will be able to:
1. Develop competency in using and applying algebraic processes and concepts in preparation for courses satisfying the University Mathematics Requirement and in other disciplines.
2. Increase problem-solving ability by using approaches that are typical of algebraic thinking.
3. Understanding algebra as a generalization of arithmetic.
4. Solve linear, polynomial, rational, and radical equations, and application problems involving such equations.
5. Solve simple and compound inequalities, absolute value inequalities, and application problems involving inequalities.
6. Graph linear equations in two variables, write equations of lines, and solve problems using those equations and graphs.
7. Solve systems of linear equations in two variables and their applications.
8. Perform operations with polynomials and factor polynomial expressions using a variety of methods.
9. Evaluate rational functions and find their domain, perform operations with rational expressions, and simplify complex rational expressions
10. Apply the laws of radicals and rational exponents to perform operations on expressions involving radicals and rational exponents.
11. Identify a function along with its domain and range, find the value of a function, graph a function using point-plotting, slope-intercept and point-slope formulas, and use functions to solve application problems.

Required Texts and Ancillary Materials
The textbook we will be using is *Intermediate Algebra*, 12th edition, by Lial, Hornsby, and McGinnis. We will also use MyMathLab for homework assignments, so it is important that your book comes bundled with an unused code for this program. Alternatively, you can just buy an access code, which includes a digital copy of the book.

Attendance and Participation Policy
You are expected to be present at all classes, but there is no formal attendance policy. If you have a conflict with any test, you must see me in advance. No make-up tests will be given for unexcused absences.

Method for determining course grade
15% from homework, 60% from quizzes, and 25% from final.
It is anticipated that the letter grade assignments will be made on the following scale: A 93%, A− 90%, B+ 87%, B 83%, B− 80%, C+ 77%, C 73%, C− 70%, D+ 67%, D 60%, F below 60%.

Assignments/Tests and expectations for out-of-class work
Homework will be assigned most days through MyMathLab (MML). Each day that an assignment is late will result in a 0.5% penalty on that assignment. We will have eight in-class chapter quizzes throughout the semester. Your six best scores will be used for the "quiz" portion of your grade.

Deadlines for submitting work
The homework deadlines will vary and will be posted on MML. Typically, each homework assignment will be due one week after it's posted on MML.

Final Exam Date and Time
Monday, December 9th from 10:15am-12:15pm.

Academic Honesty
All academic work should be your own. Academic dishonesty (plagiarism and cheating) may result in automatic failure of the assignment or the course itself, and you will be referred to the Academic Affairs Office for suspension or expulsion proceedings.
You are plagiarizing when you:
1. Copy material from a source without using quotation marks and proper citation.
2. Follow the movement of the source, substituting words and sentences but keeping its meaning, without citing it.
3. Lift phrases or terms from a source and embed them in your own prose without using quotation marks and proper citation.
4. Borrow ideas (that are not common knowledge) from a source without proper citation.
5. Turn in a paper wholly or partially written by someone else.

Learning Differences
If you have a documented learning difference please contact Kera McClain Manley, the Disability Services Coordinator, to arrange for whatever assistance you need. The Disability Services is located in Room #13 on the second floor of the Library in the Academic Support Center. You are welcome to consult with me privately to discuss your specific needs. For more information, contact Kera at kmanley@otterbein.edu, 614-823-1618 or visit the Disability Services at the following web link: http://www.otterbein.edu/public/Academics/AcademicAffairsDivision/AcademicSupportCenter/DisabilityServices.aspx.

Statement on Credit Hour Definition/Expectation for Student Work
For each credit hour of classroom or direct faculty instruction, students are expected to engage in two hours of out-of-class work (readings, homework, studying, project preparation, etc.). A three semester credit hour course requires six hours per week of out-of-class work.

Schedule (tentative)

	Monday	Tuesday	Wednesday	Thursday	Friday
	Aug. 26	**Aug. 27**	**Aug. 28**	**Aug. 29**	**Aug. 30**
Week 1	*Classes start* Intro to course/review		1.1		1.2
	Sept. 2	**Sept. 3**	**Sept. 4**	**Sept. 5**	**Sept. 6**
Week 2	**Labor Day**	*Last day to add*	1.5		1.7
	Sept. 9	**Sept. 10**	**Sept. 11**	**Sept. 12**	**Sept. 13**
Week 3	**Quiz #1**		2.1		2.2
	Sept. 16	**Sept. 17**	**Sept. 18**	**Sept. 19**	**Sept. 20**
Week 4	2.3		2.5/2.6		**Quiz #2**
	Sept. 23	**Sept. 24**	**Sept. 25**	**Sept. 26**	**Sept. 27**
Week 5	3.1		3.3		*Last drop day w/o "W"* 3.3
	Sept. 30	**Oct. 1**	**Oct. 2**	**Oct. 3**	**Oct. 4**
Week 6	**Quiz #3**		4.1		4.2 and 4.4
	Oct. 7	**Oct. 8**	**Oct. 9**	**Oct. 10**	**Oct. 11**
Week 7	4.5		4.3/review		**Quiz #4**
	Oct. 14	**Oct. 15**	**Oct. 16**	**Oct. 17**	**Oct. 18**
Week 8	**Fall Break**		**No Class!**		5.1
	Oct. 21	**Oct. 22**	**Oct. 23**	**Oct. 24**	**Oct. 25**
Week 9	5.2		5.3/5.4		5.5
	Oct. 28	**Oct. 29**	**Oct. 30**	**Oct. 31**	**Nov. 1**
Week 10	*Last day to drop* **Quiz #5**		6.1		6.2 and 6.3
	Nov. 4	**Nov. 5**	**Nov. 6**	**Nov. 7**	**Nov. 8**
Week 11	6.4		**Quiz #6**		7.1 and 7.2
	Nov. 11	**Nov. 12**	**Nov. 13**	**Nov. 14**	**Nov. 15**
Week 12	7.3		7.4		7.5
	Nov. 18	**Nov. 19**	**Nov. 20**	**Nov. 21**	**Nov. 22**
Week 13	7.6		Practice		**Quiz #7**
	Nov. 25	**Nov. 26**	**Nov. 27**	**Nov. 28**	**Nov. 29**
Week 14	8.1		**Thanksgiving break**		**Thanksgiving Break**
	Dec. 2	**Dec. 3**	**Dec. 4**	**Dec. 5**	**Dec. 6**
Week 15	8.2		**Quiz #8**		*Last day of classes* Review
	Dec. 9	**Dec. 10**	**Dec. 11**	**Dec. 12**	**Dec. 13**
Finals Week	**Final Exam 10:15am-12:15pm**				