Course Description: This course teaches arithmetic operations review, basic operations on polynomials, solving linear equations, and graphing linear/quadratic equations. Intermediate Algebra provides a review of mathematical concepts and operations, including the following:
- solving and graphing linear equations
- rules for exponents and radicals
- factoring polynomials
- rational and radical expressions

Learning Objectives: Students will demonstrate the ability to work with real world situations involving fundamental math concepts.
- Students will be able to simplify algebraic expressions.
- Students will be able to graph linear functions.
- Students will be able to apply the steps for problem solving.
- Students will be able to factor trinomials and polynomial expressions.
- Students will be able to apply rules for exponents.
- Students will be able to multiply rational expressions.

Course Format:
- Combining emporium style instruction with independent study, classes will meet for a traditional lecture or problem-solving session one time a week and in the lab with the instructor for the other class meetings.
- During the lecture the instructor will review concepts and work problems focusing on areas where students typically struggle. Group work and active learning will be used in conjunction with the lecture format.
- During the time in the lab, the course management system MyMathLab, accessed through Canvas, will be used to complete video lectures, homework, quizzes, and tests while the instructor and lab assistants provide one-on-one assistance.

Materials Needed:
- Non-graphing calculator: TI-30XS Multiview or TI-30X Pro is recommended.
- Binder with loose leaf notebook paper

Important Dates:
- Last day to drop/add course: Wednesday, August 23rd, 2017
- Temporary access codes expire: Wednesday, August 30th, 2017
- Last day to withdraw from course w/ W: Friday, October 27th, 2017

Contact Information:
- Phone: 601.266.5824
- Website: www.usm.edu/mathzone
- Email: mathzone@usm.edu

Math Zone:
- Director: Emileigh Sones
  Email: emileigh.sones@usm.edu
  Office Phone: 601.266.5831
- Coordinator: Corwin Stanford
  Email: corwin.stanford@usm.edu
  Office Phone: 601.266.5768

Hours of Operation:
- Monday-Thursday: 9am-8pm
- Friday: 9am-5pm
- Sunday 12:30pm-4:30pm
**Evaluation Methods**

**Attendance, Professionalism, & Participation Expectations:**
You are expected to be on time, attend the class for the entire duration, and contribute to every class session in a professional manner. Attendance and participation will be based on class and lab attendance as well as participation in all group work and class discussions. Leaving early or arriving late for class or lab is unacceptable and will result in a reduction in your attendance grade. Be prepared for class with proper supplies and assigned homework completed. Use language and actions appropriate for a professional setting. Use computer for class work and not other sites/social media, etc. Use school equipment, time and resources in a professional manner. If a student must miss class, it is that student’s responsibility to consult a classmate for notes, assignments, and announcements prior to the next class meeting.

**Pre-Homework and Post-Homework:** Before each lecture, a Pre-Homework is due. The Pre-Homework contains videos and problems to prepare you for the classroom lecture. The Post-Homework contains videos and problems to expand your knowledge of the content covered in the lecture.

**Post-Quizzes:** Post-Quizzes are content quizzes to review the material. They are Password protected and must be taken in the Math Zone.

**Unit Tests and Final Exam:** Unit Tests and Final Exams are also administered in MyMathLab in the Math Zone. No assistance is provided in MyMathLab and there is no use of outside materials, websites, notes, cell phones, etc., on the test. Specific instructions for testing can be found at [www.usm.edu/mathzone](http://www.usm.edu/mathzone).

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<tr>
<th>Course Grades:</th>
<th>Grading Scale:</th>
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<tbody>
<tr>
<td>5 Unit Tests (50%)</td>
<td>90% - 100% A</td>
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<tr>
<td>Attendance &amp; Participation (5%)</td>
<td>80% – 89% B</td>
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<tr>
<td>Comprehensive Final Exam (20%)</td>
<td>70% – 79% C</td>
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<tr>
<td>Quizzes (5%)</td>
<td>60% - 69% D</td>
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<tr>
<td>Homework (20%)</td>
<td>0% - 59% F</td>
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**Due Before Class:**
**Pre-Homework**
- Unlimited attempts
- Can save your progress
- Useful Tools:
  - ✓ Help me solve this
- Can work past the due date for 50% credit (until test)

**Due After Class:**
**Post-Quiz**
- 3 Attempts
- Time, (30 minutes)
- May use notes or book
- No help from tutors or others

**Post-Homework**
- Unlimited attempts
- Can save your progress
- Useful Tools:
  - ✓ Help me solve this
- Can work past the due date for 50% credit (until test)

**During Class:**
**Lecture/Review**
- Review and/or begin new material
- Complete active learning activities
Testing Information

General Information:
All tests are password protected and must be taken in the Math Zone. Tests must be taken **during the class lab time** unless other arrangements are made. Each test has an accompanying practice test which can be taken as many times as desired. To best prepare for your test, complete any late assignments for the unit and work the practice test until you obtain your desired score. Once your actual test is submitted, you should review it. After you leave the testing area, it will not be available for review in your MyMathLab account. If you have any problems or concerns while reviewing, please inform the test proctor and they will assist you. Students wanting to review their test after closing out of the test review page should contact their instructor to review their tests one-on-one.

*A score of zero is given when a testing policy has been violated.*
*There will be no retake opportunities for any test or the final exam.*

What to Bring:  
Student ID  
A student ID is required for testing  
Scientific Calculator  
Any non-graphing calculator  
Pen or Pencil

Leave Behind:  
Graphing Calculators  
Calculator Lids  
Electronic Devices  
Notes or Other Papers  
Bags or Personal Items  
Hats  
Headphones

Testing Policies:  
- You may not visit any website other than MyMathLab through Canvas.  
- Once you begin your test, you may not leave the testing area.  
- No prohibited items may be brought into the testing area.

Rescheduling a Test:  
In the event of documentable absences, a Petition for Alternative Test Date must be completed (available at the Math Zone desk) and submitted to the Math Zone Director. In addition, documentation must be provided to the Office of Student Ombudsman Services (R.C. Cook University Union - Room 221), indicating that the absence is documented and excused. These steps should be completed within two school days of the absence. Incomplete, late, or failure to complete petitions will not be accepted.

Scheduled Absences:  

**Take a test for a scheduled absence before the due date.**

Homework assignments, quizzes, and classes that are missed due to verifiable circumstances can be made-up or waived in the case of attendance, provided you can submit valid documentation. If homework assignments are not completed on time for any other reason, those problems can still be completed for 50% credit until the date of the test, however, quizzes will remain unavailable. You must notify your instructor BEFORE the scheduled absence in order for your instructor to provide accommodations.
**Math Zone Policies:**
Violating the rules listed below may result in one or more of the following: loss of lab attendance credit, being asked to leave the Zone, and/or a zero on an assignment(s).
1. Only students in eligible MZ courses may enter the Zone. Friends, private tutors, etc., must find other premises.
2. When in the Math Zone, you are expected to be respectful of others.
3. Food and tobacco products are not allowed in the lab. Drinks should be in sealed containers.
4. Talking/Facetiming on cell phones is not permitted while working in the lab.
5. You are expected to be actively working on mathematics while in the Zone. You may not visit other websites or work on assignments for other classes.

**Statement on Academic Integrity:**
All students at the University of Southern Mississippi are expected to demonstrate the highest levels of academic integrity in all that they do. Forms of academic dishonesty include (but are not limited to):
* Cheating (to include copying from others’ work)
* Plagiarism – representing another person’s words or ideas as your own; failure to properly cite the source of your information, argument, or concepts
* Falsification of documents
* Disclosing of test or other assignment content to another student
* Submission of the same paper or other assignment to more than one class without the explicit approval of all faculty members’ involved
* Unauthorized collaboration with others on work for online courses

Engaging in any of these behaviors or supporting others who do so will result in academic penalties and/or other sanctions. If a faculty member determines that a student has violated our Academic Integrity Policy, sanctions ranging from resubmission of work to course failure may occur, including the possibility of receiving a grade of “XF” for the course, which will be on the student’s transcript with the notation “Failure due to academic misconduct.” For more details, please see the University’s Academic Integrity Policy: [https://www.usm.edu/institutional-policies/policy-acaf-pro-012](https://www.usm.edu/institutional-policies/policy-acaf-pro-012)

Note that repeated acts of academic misconduct will lead to expulsion from the University. In particular, any instance of cheating on a unit test or final exam will result in a zero and cannot be replaced by a second attempt or a replacement grade.

**ODA Policy:**
If a student has a disability that qualifies under the American with Disabilities Act and requires accommodations, he/she should contact the Office for Disability Accommodations for information on appropriate policies and procedures. Disabilities covered by ADA may include learning, psychiatric, physical disabilities, or chronic health disorders. Students can contact ODA if they are not certain whether a medical condition/disability.

Address:
The University of Southern Mississippi
Office for Disability Accommodations
118 College Drive #8586
Hattiesburg, MS 39406-0001

Individuals with hearing impairments can contact ODA using the Mississippi Relay Service at 1-800-582-2233 or email Suzy Herbert at [Suzanne.Hebert@usm.edu](mailto:Suzanne.Hebert@usm.edu)
**Tips for Success**

**Use your time in class effectively.**
- Sit near the front, avoid distractions, and participate.
- Ask questions if you are confused and don't be afraid to respond to questions that are asked.
- Learn the exact definitions of all new terms the first time they appear so that misunderstandings do not prevent you from answering questions.

**Adequately prepare for class and tests.**
- Prepare yourself physically as well as mentally; eat well and get sufficient rest.
- Take your practice test(s) under conditions similar to those of the real test.
- Plan study sessions with your classmates.
- When taking your test, relax and read the problems carefully.

**Dedicate the necessary time.**
- Use your time in the lab effectively; get help right away from the Math Zone staff with any problems you may have.
- Get to know your classmates so you can plan study sessions together.
- Organize your work: keep notes, class handouts, and scratch paper from homework and quizzes together.
- Establish a consistent schedule for completing homework and studying the material.
- When working problems, model the same step-by-step processes used by your instructor.

**Use resources wisely to help you.**
- If you don't understand problems or concepts, ask the tutors or your instructor.
- Utilize the Media Library in MyMathLab.
- Find ways to learn concepts rather than memorizing every problem.

**Embrace the struggle.**
- Don't overuse the "Help Me Solve This" tools. Attempt problems on your own if possible.
- Focus on the most challenging problems and realize that you may not understand every single problem instantly.

**Additional Tips.**
- If you are a pen and paper person, print out your homework assignments and bring them to the Math Zone with you.
- Make good use of the video lectures. Pause, rewind, and rewatch them as often as necessary.

**Other Resources**

- **Student Success Center**
  - Offers tutoring through the First Year Initiative (FYI)
  - Located in McLemore Hall, Second Floor
  - Phone: 601.266.5003
  - Website: http://www.usm.edu/success

- **Learning Enhancement Center**
  - Helps students devise learning strategies, study skills, and time management skills
  - Located in the International Center, Third Floor
  - Phone: 601.266.5518; Website: www.lec.usm.edu
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<th>Test 1</th>
<th>Test 2</th>
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<td>1. Study Skills</td>
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<td>1. Growth Mindset</td>
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<td>2. Order of Operations (simplifying “future” problems); simplifying basic radicals</td>
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<td>2. Distributive Property</td>
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<td>2. Solving Linear Equations</td>
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<td>3. Function notation with linear equations</td>
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<td>3. Graphing Linear Equations when solved for y</td>
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<td>3. Vertical/Horizontal Lines</td>
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<td>3. Solving an equation for y to find slope and y-int.</td>
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<td>3. Slope: from graph and when given two points</td>
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<td>3. Equations of Lines; Slope-Intercept Form Only</td>
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<td>4. Product Rule for Exponents</td>
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<td>4. FOIL Method</td>
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<td>5. Factoring Trinomials: General Case First</td>
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<td>5. Multiplying Rational Expressions</td>
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<td>6. Quadratic Equations</td>
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<td>6. Finding LCD of Rational Expressions</td>
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<td>8. Finding Equation when given two zeros</td>
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<td>8. Finding if a number is a zero to a quadratic using synthetic division</td>
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<td>9. Graphing Quadratics</td>
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<td>9. Finding Vertex, real zeros of quadratic</td>
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<td>9. Determining Max/Min</td>
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<td>10. Linear Inequalities/Interval Notation</td>
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<td>10. Compound Inequalities</td>
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<td>10. Vertical Line Test</td>
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<td>10. Domain and Range from a graph</td>
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<td>11. Adding, Subtracting, Multiplying Polynomials</td>
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<td>11. Adding, Subtracting, Multiplying Functions</td>
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<td>11. Negative Exponents</td>
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<td>13. Final</td>
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