



*Alabama
Department of Postsecondary
Education*

Representing Alabama's Public Two-Year College System



**Lawson State Community College
Course Syllabus**

SEMESTER & YEAR: Spring 2009

COURSE TITLE: **MTH 100** Intermediate Algebra
(Blackboard Supported Course)

COURSE HOURS: 3 Credit Hours

CLASS MEETING DATES/TIMES/LOCATION:
Tuesday and Thursday: 11:00 a.m. - 12:15 p.m. Section: **05288**

Location: Academic Building C-105

INSTRUCTOR CONTACT INFORMATION:

Instructor's Name: Calvin Briggs

Contact Policy: Email: cbriggs@lawsonstate.edu

Office Hours: TBA Office Location 120-F (see BlackBoard and Locator Card)

COURSE DESCRIPTION:

This course provides a study of algebraic techniques such as linear equations and inequalities, quadratic equations, systems of equations and operations with exponents and radicals. Functions and relations are introduced and graphed with special emphasis on linear and quadratic functions.

PREREQUISITE(S)/CO-REQUISITE(S): (if applicable)

Prerequisite: MTH 100 has a prerequisite that the student should successfully pass MTH 098. This course does not apply toward the general core requirement for mathematics.

Co-requisite: None

TEXTBOOK(S) AND OTHER LEARNING RESOURCES:

Kaufmann Schwitters Intermediate Algebra (eighth Edition),
Thomson/Brooks/Cole

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TEACHING ENHANCEMENTS AND RESOURCES:

In an effort to improve student learning, Instructors will utilize the following resources to enhance and emphasize key objectives: PowerPoint, Geo sketchpad, Mimo notebook, Thomson NOW, Mimo Smartboard and the STEP-UP Computer Lab. In addition, instructors will also administer a pre-test to measure student's academic ability in Math 100. Students will be required to complete 2 hours of a week in STEP-UP in STEM math lab. Math experiments and research assignments will be assigned and assessed.

COURSE STUDENT LEARNING OUTCOMES (SLO's):

1. Student will be able to solve systems of linear equations and application problems with systems of linear equations
2. Students will be able to solve quadratic equations by at least two of the following methods: factoring, completing the square, or using the Quadratic Formula.
3. Students will be able to solve linear equations and inequalities.
4. Students will be able to identify characteristics of functions and graph linear and quadratic functions.
5. Students will be able to perform operations with radical and rational equations.

6. Students will be able to perform operations with polynomials.

CORE COMPETENCIES:

Check when completed	Date Completed	Core Competencies Guide Sheet (List Major Assignments, Exams, Written Work, Oral Presentations, Projects, Quizzes, Activities, etc...)
		Chapter III: Factoring Polynomials and solving quadratic equations Assessment: Quizzes and Test
		Chapter IV: Simplifying and performing operations on rational expressions Assessment: Quizzes and Test
		Chapter V: Simplifying and performing operations on radical expressions Assessment: Quizzes and Test
		Chapter VI: Solving quadratic equations by the quadratic formula Assessment: Quizzes
		Chapter VII: Graphing linear equations and identifying the parameter of lines Assessment: Quizzes and Test
		Chapter IX: Identifying, analyzing, and evaluating functions Assessment: Quizzes
		Chapter X: Solving systems of linear equations and applied problems Assessment: Quizzes and Test

EVALUATION AND ASSESSMENT

GRADING POLICY: All items assessed will be used in calculating the final grade. Letter grades will be assigned traditionally. A scale of 0-100 will be used and weighted as follows:

Final Exam	25%
Hourly Exams	55%
Quizzes/ Labs/Homework	20%

Lawson State Community College's Grade Breakdown:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
59% or below	F

All students in MTH 100 take a common final exam. In order to pass this course, you must earn a grade of 70% or higher on all submitted work to pass this course.

ATTENDANCE

a. Students are expected to attend all classes for which they are registered. Students who are unable to attend class regularly, regardless of the reason or circumstance, should withdraw from that class before poor attendance interferes with the student's ability to achieve the Student Learning Outcomes required in the course. Withdrawal from class can affect eligibility for federal financial aid. Withdrawal from class can prohibit progression in nursing and allied health programs. Thus, before withdrawing, see your advisor and Financial Aid Office, if applicable.

b. Make-up Work.

Make-up tests and quizzes are not given. Assignments should always be submitted prior to the class period or at the beginning of the class. If you do not hand in your assignment at the beginning of class, you will have until 10:00 p.m. to submit the assignment either electronically or under my door in a large envelope. Be sure to label with your name and class day and time. Assignments that come in later than 10:00 p.m. will not be graded. This policy holds true for absent students. You will be allowed to drop one major hourly exam and up to two quizzes and/or homework assignment, if necessary.

c. Lateness:

All classes will begin promptly at the scheduled time. Everyone is expected to arrive and prepare themselves for class before the class officially begins.

STATEMENT ON DISCRIMINATION / HARASSMENT

The College and the Alabama Board of Education are committed to providing both employment and educational environments free of harassment or discrimination related to an individual's race, color, gender, religion, national origin, age, or disability. Such harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment is a violation of State Board of Education policy and will not be tolerated.

If you would like to file a harassment complaint, please contact an instructor, a Department Chair or a Dean immediately. Harassment, of any nature, is never tolerated and the College takes such charges seriously.

AMERICANS WITH DISABILITIES

The Rehabilitation Act of 1973 (Section 504) and the American with Disabilities Act of 1990 state that qualified students with disabilities who meet the essential functions and academic requirements are entitled to reasonable accommodations. It is the student's responsibility to provide appropriate disability documentation to the College. **Please contact the ADA representative**, Mrs. Renay Herndon, at 205-426-7335 (Bessemer campus) and Ms. Janice Williams at 205-925-2515 (Birmingham campus).

If you are an ADA student, it is the obligation of the student to present your Accommodations paperwork to your instructor (for each class you are enrolled in). Ideally, this paperwork should be submitted at the beginning of the semester to enable best course support for you.

GRIEVANCE PROCEDURES: It is the responsibility of every instructor at Lawson State, once notified of your accommodation, to provide those accommodations (if reasonable). Thus, if you are an ADA student and have presented your accommodations paperwork to your instructor, but feel you have not been accommodated for, it is your right to file a grievance. For more information about Grievance procedures, go to www.lawsonstate.edu and click on the Disability Services icon located on the main web page of the college.

COURSE CALENDAR:

January 8, 2009	Drop/Add Begins; Late Registration Begins
January 15, 2009	Drop/Add Ends
January 19, 2009	School Closed; MLK Holiday ; Classes Resume January 20, 2009
March 13, 2009	Last Day to withdraw without academic penalty
March 16-20, 2009	Spring Break School Closed
March 23, 2009	Classes Resume
April 17, 2009	Last Day to Withdraw from class
April 29, 2009	Last Day of Classes
April 30-May 1-2, 5 and 6	Final Exams

STUDENT ACKNOWLEDGEMENT FORM

The signing of this form below indicates that I have read the current syllabus for MTH 100 and am satisfied that I understand its content and accept that I am entering into a binding contract.

The signing of this form also demonstrates that my instructor did review the syllabus with the class and did allow for a questioning/answering period.

1. I understand that “make-up tests are not given.” I am allowed to drop one major hourly exam. If I miss a major hourly exam, then this will be the one that I drop. If I miss more than one hourly exam, then I will receive the score(s) of zero(s) on the exam(s).
2. I understand that “make-up quizzes are not given.” I am allowed to drop two quizzes. If I miss two quizzes, then these will be the two that I am drop. If I miss more than two quizzes, then I will receive the score(s) of zero(s) on the quiz(zes).
3. I understand that I am to wear my identification badge at all times.
4. I understand I may be required to complete some assignments on-line as a test and/or quiz grade and that I have knowledge and equipment (either on campus or away from campus) to do so .
5. I have read the syllabus and am willing to abide by the requirements in it.

Printed Name

Signature

Date



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**Lawson State Community College
Course Syllabus**

SEMESTER & YEAR: Spring 2009

COURSE TITLE: MTH 112, Pre-calculus Algebra
(Blackboard Supported Course)

COURSE HOURS: 3 Hours

CLASS MEETING DATES/TIMES/LOCATION:

Monday, Wednesday: 11:00 a.m. —12:15 p.m. , Academic Building, Room B-118

INSTRUCTOR CONTACT INFORMATION:

Instructor's Name: Calvin Briggs

Contact Policy: Email: cbriggs@lawsonstate.edu

Office Hours: TBA – Blackboard rm: 120-f

COURSE DESCRIPTION:

Pre-calculus, as the name suggests, consists of topics from algebra and trigonometry that form the foundation of calculus. This course emphasizes the algebra of functions-including polynomial, rational, exponential, and logarithmic functions. The course also covers systems of equations and inequalities and quadratic inequalities.

PREREQUISITE(S)/CO-REQUISITE(S): (if applicable)

Prerequisite:

MTH 112 has a minimum prerequisite of high school Algebra I, Geometry and Algebra II with an appropriate mathematics placement score. An alternative to this is that the student should successfully pass with C or higher Intermediate College Algebra and a minimum score of 21 on the Mathematics Advanced Placement Test.

Co-requisite: None

TEXTBOOK(S) AND OTHER LEARNING RESOURCES:

Required textbook: Pre-calculus, Mathematics for Calculus, Stewart, Redlin, and Watson, Pre-Calculus 5th Edition THOMSON-Brooks/Cole, 2006, TI-83/TI-83 Plus or Higher Graphics Calculator, scientific calculator, loose-leaf paper with 3-Ring Binder, note cards, graph paper, and pencils.

TEACHING ENHANCEMENTS AND RESOURCES:

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COURSE STUDENT LEARNING OUTCOMES:

1. Students will be able to study the real number system and express solutions to various notations such as set builder and interval.
2. Students will be able to approximate solutions to equations graphically utilizing the graphing calculator and numerically while utilizing appropriate strategies for problem solving.

3. Students will be able to study graphs of functions and regions described by inequalities and intersecting solutions sets of equations on the rectangular coordinate system.
4. Students will be able to analyze the graph of the following functions: linear, quadratic, cubic, rational exponential, and logarithmic by identifying the domain, range, x-intercept(s), y-intercept(s), asymptotes(s), and other properties of these functions.
5. Students will be able to evaluate a binomial coefficient and expand a binomial.
6. Students will be able to determine the inverse of a function and obtain an inverse from a graph.
7. Students will be able to identify polynomial, their zeros and multiplicity, find complex zeros to polynomial functions, and solve polynomial inequalities
8. Students will be able to solve exponential and logarithmic functions, change exponential functions to logarithmic functions and vice-versa, and work with the properties of logarithms.
9. Students will be able to analyze functions—algebraically, graphically, and numerically.

CORE COMPETENCIES:

Check when completed	Date Completed	<p align="center">Core Competencies Guide Sheet (List Major Assignments, Exams, Written Work, Oral Presentations, Projects, Quizzes, Activities, etc...)</p>
		<p>Chapter I: Fundamentals of Algebra—factoring polynomials, solving quadratic equations, evaluating and simplifying expressions, rationalizing denominators, finding the distance and slope between two points, writing equations of line Assessment: Quizzes and Tests</p>
		<p>Chapter II: Identifying, analyzing, and evaluating functions; determining symmetry; Average rate of change; Inverse; Local max and min; One-to-one; Assessment: Quizzes and Tests</p>
		<p>Chapter III: Remainder Theorem and Factor Theorem; Real and Complex Zeros; Descartes Rules of Sign; Analyzing Rational Zeros Characteristics ; End Behavior Assessment: Quizzes and Tests</p>
		<p>Chapter IV: Laws of logarithms; Change of Base; Sketching exponential and logarithmic functions; Solving exponential equations; Analyzing characteristics of exponential and logarithmic</p>

		functions Assessment: Quizzes and Tests
		Chapter IX: Solving systems of linear equations in two variables and modeling with linear systems; Assessment: Quizzes and Tests
		Chapter XI: Binomial Theorem Assessment: Quizzes and Tests

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5. I have read the syllabus and am willing to abide by the requirements in it.

Printed Name

Signature

Date

Course Syllabus

SEMESTER & YEAR:

COURSE TITLE: AUM 101 Fundamentals of Automotive Technology

COURSE HOURS:

Theory ___1___ credit hours
Lab ___2___ credit hours
Total ___3___ credit hours

CLASS MEETING DATES/TIMES/LOCATION:

Dates: Wednesday
Times: (8:00-9:50 a.m.)
Location: Bessemer Campus; Bldg C; Room 101

INSTRUCTOR CONTACT INFORMATION:

Mr. Larry Marshall lmarsshall@lawsonstate.edu 929-3478
Office Hours: Monday thru Thursday 3:30 - 4:30 pm

COURSE DESCRIPTION:

This course provides basic instruction in Fundamentals of Automotive Technology.

CORE

PREREQUISITE(S)/CO-REQUISITE(S): (if applicable)

Prerequisite: None
Co-requisite: None

TEXTBOOK(S) AND OTHER LEARNING RESOURCES:

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COURSE STUDENT LEARNING OUTCOMES (SLO's):

Students will be able to:

1. Identify chemicals commonly used in the automotive shop as well as safety precautions for using these chemicals
2. Identify basic hand tools, their use, and proper care
3. Identify various types of specialty tools, fasteners, and precision measuring tools
4. Use precision measuring tools
5. Identify power tools and basic shop equipment and safety measures that apply to their use
6. Use power tools and basic shop equipment
7. Identify protective clothing and equipment and their proper use, proper shop behavior, principles of fire safety, and federal regulations concerning hazardous material and shop safety

8. Identify procedures which improve customer relations as well as use a labor and parts guide to write a repair order
9. Identify basic functions of various systems of the automobile and identify the duties and career opportunities of automotive technicians

CORE COMPETENCIES:

Task Number	Task Description
1	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.
2	Locate and interpret vehicle and major component identification numbers.
3	Perform common fastener and thread repair, to include: remove broken bolt, restore internal and external threads, and repair internal threads with thread insert.
4	Inspect tire condition; identify tire wear patterns; check and adjust air pressure; determine necessary action.
5	Rotate tires according to manufacturer's recommendations.
6	Reinstall wheel; torque lug nuts.
7	Perform oil and filter change.
8	Lubricate suspension and steering systems.
9	Select, handle, store, and fill brake fluids to proper level.
10	Determine proper power steering fluid type; inspect fluid level and condition.
11	Replace fuel filters.
12	Test coolant; drain and recover coolant; flush and refill cooling system with recommended coolant; bleed air as required.
13	Inspect, test, and replace thermostat and gasket/seal.
14	Inspect and replace engine cooling and heater system hoses.
15	Inspect, replace, and adjust drive belts, tensioners, and pulleys; check pulley and belt alignment.
16	Inspect and replace A/C compressor drive belts, pulleys, and tensioners; determine necessary action.
17	Inspect, adjust, or replace generator (alternator) drive belts, pulleys, and tensioners; check pulley and belt alignment.
18	Remove, inspect, replace, and adjust power steering pump belt.

EVALUATION AND ASSESSMENT

The following list is a breakdown of how each student will be evaluated for final grade calculations at the end of the term:

Lab	40%
Classroom	60%

Lawson State Community College's Grade Breakdown:

90-100% A

80-89%	B
70-79%	C
60-69%	D
59% or below	F

ATTENDANCE

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- b. **Make-up Work.**
Make up tests will be given at the discretion of the instructor.
- c. **Lateness:**
Being late for scheduled classes will not be tolerated. Being late constantly will affect your overall final grade.

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COURSE CALENDAR: The course calendar (if applicable) will be posted via Blackboard.

**SUBMIT THIS FORM TO YOUR INSTRUCTOR ELECTRONICALLY
VIA BLACKBOARD**

STUDENT ACKNOWLEDGEMENT FORM

The signing of this form below indicates that I have read the current syllabus for AUM 101 and am satisfied that I understand its content and accept that I am entering into a binding contract.

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Type Name

Type Date

Course Syllabus

SEMESTER & YEAR:

COURSE TITLE: ABR 111 Non-Structural Repair

COURSE HOURS:

Theory ___1___ credit hours
Lab ___2___ credit hours
Total ___3___ credit hours

CLASS MEETING DATES/TIMES/LOCATION:

Dates: Wednesday
Times: (5:00-7:30 p.m.)
Location: Birmingham Campus; Fred Horn Bldg; Room 107

INSTRUCTOR CONTACT INFORMATION:

Mr. Alga Gaston agaston@lawsonstate.edu 929-6321
Mr. Darryl Rowe drowe@lawsonstate.edu 929-6321
Office Hours: Monday thru Friday 3:00 pm-5:30 pm

COURSE DESCRIPTION:

Students are introduced to basic principles of non-structural panel repairs. Topics include shop safety, identification and use of hand/power tools, panel preparation, sheet metal repairs, and materials. **CORE**

PREREQUISITE(S)/CO-REQUISITE(S): (if applicable)

Prerequisite: None
Co-requisite: None

TEXTBOOK(S) AND OTHER LEARNING RESOURCES:

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COURSE STUDENT LEARNING OUTCOMES (SLO's):

- Students will be able to:
1. Use safe practices and precautions to protect vehicle and employees.
 2. Prepare non-structural components for repair.
 3. Finish metal body panels in preparation for repairs.

CORE COMPETENCIES:

Task Number	Task Description
1	Inspect, remove, store, and replace interior trim and components.
2	Inspect, remove, store, and replace non-structural body panels and components that may interfere with or be damaged during repair.
3	Inspect, remove, store, and replace all vehicle mechanical and electrical components that may interfere with or be damaged during repair.
4	Protect panels, glass, and parts adjacent to the repair area.
5	Soap and water wash entire vehicle; use appropriate cleaner to remove contaminants from those areas to be repaired.
6	Remove corrosion protection, undercoatings, sealers, and other protective coatings necessary to perform repairs.
7	Inspect, remove, and replace repairable plastics and other components that are recommended for off-vehicle repair.
8	Restore corrosion protection.
9	Replace door skins according to manufacturer's procedures.
10	Restore sound deadeners and foam materials.
11	Perform panel bonding according to manufacturer's specifications.
12	Straighten and rough-out contours of damaged panels to a suitable condition for body filling or metal finishing using power tools, hand tools, and weld-on pull attachments.
13	Remove paint from the damaged area of a body panel.
14	Locate and reduce surface irregularities on a damaged body panel.
15	Demonstrate hammer and dolly techniques.
16	Heat shrink stretched panel areas to proper contour according to manufacturer's specifications.
17	Cold shrink stretched panel areas to proper contour.
18	Mix body filler.
19	Apply body filler; shape during curing.
20	Rough sand cured body filler to contour; finish sand.
21	Identify the types of plastics; determine repairability.
22	Identify the types of plastics repair procedures; clean and prepare the surface of plastic parts.
23	Replace or repair rigid, semi-rigid, and flexible plastic panels according to manufacturer's/industry specifications.
24	Remove or repair damaged areas from rigid exterior sheet-molded compound (SMC) panels.
25	Replace bonded sheet-molded compound (SMC) body panels; straighten or align panel supports.

EVALUATION AND ASSESSMENT

The following list is a breakdown of how each student will be evaluated for final grade calculations at the end of the term:

FINAL EXAM	20%
LAB (INCLUDES DRESS OUT/TOOLS)	40%
MIDTERM EXAM	20%
EXAMS	20%

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90-100%	A
80-89%	B
70-79%	C
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59% or below	F

ATTENDANCE

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- b. **Make-up Work.**
Make up tests will be given on Saturdays at 7:00 am at the discretion of the instructor.
- c. **Lateness:**
Being late for scheduled classes will not be tolerated. Being late constantly will affect your overall final grade.

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AMERICANS WITH DISABILITIES

The Rehabilitation Act of 1973 (Section 504) and the American with Disabilities Act of 1990 state that qualified students with disabilities who meet the essential functions and academic requirements are entitled to reasonable accommodations. It is the student's responsibility to provide appropriate disability documentation to the College. **Please contact the ADA representative**, Mrs. Renay Herndon, at 205-426-7335 (Bessemer campus) and Ms. Janice Williams at 205-925-2515 (Birmingham campus).

If you are an ADA student, it the obligation of the student to present your Accommodations paperwork to your instructor (for each class your are enrolled in). Ideally, this paperwork should be submitted at the beginning of the semester to enable best course support for you.

GRIEVANCE PROCEDURES: It is responsibility of every instructor at Lawson State, once notified of your accommodation, to provide those accommodations (if reasonable). Thus, if you are an ADA student and have presented your accommodations paperwork to your instructor, but feel you have not been accommodated for, it is your right to file a grievance. For more information about Grievance procedures, go to www.lawsonstate.edu and click on the Disability Services icon located on the main web page of the college.

COURSE CALENDAR: The course calendar (if applicable) will be posted via Blackboard.

**SUBMIT THIS FORM TO YOUR INSTRUCTOR ELECTRONICALLY
VIA BLACKBOARD**

STUDENT ACKNOWLEDGEMENT FORM

The signing of this form below indicates that I have read the current syllabus for ABR 111 and am satisfied that I understand its content and accept that I am entering into a binding contract.

The signing of this form also demonstrates that my instructor did review the syllabus with the class and did allow for a questioning/answering period.

Type Name

Type Date