

NICHOLLS STATE UNIVERSITY

MATH 101 E.S. • COLLEGE ALGEBRA • FALL 2011 SYLLABUS

Instructor:
Phone:

Office:
Email:

Office Hours: <http://math.nicholls.edu/math/faculty.asp>

Link to Blackboard: <http://blackboard.nicholls.edu>

M.E.W. Web Address: <http://math.nicholls.edu/mew>

Text: Algebra and Trigonometry, 9th Edition by Sullivan. Pearson/Prentice Hall. The text is available online through MyMathLab, however, the student may choose to purchase a hardcopy.

Materials Required: You have paid a semester course fee when you registered for this class. This will allow access to the **Course Compass / MyMathLab** online software and text book. Instructions on how to access this software are included later in this document. The student also must have a **NSU Student ID card**, **Nicholls E-Mail address** and a **Scientific or Graphics Calculator**.

- **Calculators with built-in computer algebra systems are prohibited.**

Prohibited calculators in this category include:

- Texas Instruments having model numbers that begin with **TI-89** or **TI-92** and the **TI-Nspire CAS**—Note: The TI-Nspire (non-CAS) is permitted.
- Hewlett-Packard: **HP 48GII** and all model numbers that begin with **HP 40G**, **HP 49G**, or **HP 50G**
- Casio: **Algebra fx 2.0**, **ClassPad 300**, and all model numbers that begin with **CFX-9970G**

It is the **student's responsibility** to verify that their calculator is permitted. Check with an instructor if you are not certain whether a calculator is prohibited or allowed. Students testing using a prohibited calculator will receive a test grade of zero.

To work with **Course Compass / MyMathLab**, your computer must meet the following system requirements:

	With these operating systems:	You can use these browsers:
Windows	Windows 7	IE8, Firefox 3.x
	Windows Vista™	IE7 and IE8, Firefox 2.x and 3.x
	Windows XP	IE6, IE7 and IE8, Firefox 2.x and 3.x
Macintosh	MacOS 10.6	Safari 4, Firefox 3.x
	MacOS 10.5.x	Safari 3.x and 4, Firefox 2.x and 3.x
	MacOS 10.4.11	Safari 3.x and 4, Firefox 2.x and 3.x
Linux	ubuntu	Firefox 3.x
	Fedora	Firefox 3.x
Internet connection	Cable/DSL, T1, or other high-speed for multimedia content; 56k modem (minimum) for tutorials, homework, and testing.	
Memory	64 MB RAM minimum	
Monitor resolution	1024 x 768 or higher resolution	
Plug-ins	You need certain plug-ins and players from the MyMathLab Browser Check or Installation Wizard (found inside your course). Including: Adobe Flash , Adobe Reader , Apple Quicktime	

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MATH 101 E.S. • COLLEGE ALGEBRA • FALL 2011 SYLLABUS

* **More information about the system requirements can be found at:**

Course Compass Support Page: http://www.coursecompass.com/html/student_support.html

MyMathLab Support Page: <http://mxlmkt.pearsoncmg.com/training-support> (1-800-677-6337)

Course Prerequisites: Course Prerequisites: A grade of "C" or better in Math 003 or appropriate placement scores. The instructor will assume that a student registered for the class has the appropriate prerequisite, and the class will be taught at a level conducive to those prerequisite skills. It is the student's responsibility to verify that he/she has the appropriate prerequisite. If the student does not have the appropriate prerequisite, it is in his/her best interest to withdraw immediately and see his/her advisor for appropriate placement in the math sequence. If the student has any questions concerning his/her prerequisite level, he/she should discuss this with his/her advisor or instructor immediately.

Course Description: This course includes the following topics:

- linear functions, equations, graphs, and applications
- radical equations
- systems of linear equations
- quadratic functions, equations, graphs, and applications
- rational functions and graphs
- composition of functions
- exponential functions, equations, and graphs
- inverse functions
- logarithms, logarithmic functions and equations

Course Objective: The goals of this course are in line with the departmental guidelines on reform and on technology-assisted teaching. Students will solve various problems, algebraically, graphically and analytically. They will also model and interpret data.

Course Competencies: After successfully completing the course, the student should be able to:

- Perform calculator functions.
- Evaluate algebraic expressions.
- Perform operations on rational expressions and reduce to lowest terms.
- Find the midpoint of a line segment.
- Identify and/or approximate intercepts.
- Find the value of a function.
- Find the domain of a function.
- Obtain information from or about the graph of a function.
- Calculate and interpret the slope of a line.
- Find the equation of a line.
- Solve linear equations or equations that lead to linear equations.
- Solve problems using direct and inverse variation.
- Solve systems of linear equations in two variables.
- Evaluate piecewise-defined functions.
- Identify the vertex and vertex form of a quadratic function.
- Identify the concavity, and maximum and minimum value of a quadratic function.
- Solve quadratic equations for real roots.
- Form and evaluate a composite function.
- Simplify and/or evaluate expressions with rational exponents and radicals.
- Evaluate exponential functions.
- Identify the asymptotes of exponential functions.
- Analyze the graphs of exponential functions.
- Solve exponential equations.
- Find the inverse of a one-to-one function.
- Evaluate logarithmic expressions.
- Solve logarithmic equations.
- Work with the properties of logarithms.

Methods of Evaluation: 25 online homework assignments, 8 online quizzes, three chapter tests and a comprehensive final exam. All graded assessments are delivered on-line using software called **MyMathLab** published by Pearson Education.

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MATH 101 E.S. • COLLEGE ALGEBRA • FALL 2011 SYLLABUS

Final Grade:

10%	MyMathLab Online Homework based upon the average of the 25 homework assignments
10%	MyMathLab Online Quizzes based on the average of the 8 quizzes.
20%	Test 1
20%	Test 2
20%	Test 3
20%	Comprehensive Final Exam

Grading Scale: 90-100% = A, 80-89% = B, 70-79% = C, 60-69% = D, Less than 60% = F

Focus sections:

Refer to your class schedule to determine your class Focus dates

- The course material will be introduced using multimedia or chalkboard illustrations, class discussion and interaction.

Homework:

- The online homework assignments can be attempted an unlimited number of times prior to the due date.
- The grade on your last attempt will be recorded.
- Homework submitted late will reduce that assignment grade by 15%.
- The password required in order to continue working on late homework is "submitted late".
- A minimum score of 60% on a homework assignment allows the student to begin the next assignment.
- Students are allowed to get help on homework, but the work submitted must be your own.
- Check the schedule for the exact date and time the homework is due for your particular class.
- Homework should be used as preparation for quizzes. Do the homework exercises repeatedly until you can do the work correctly without any assistance from tutors, notes, or software tutorials.
- At the end of the semester, all your homework assignments will be averaged to determine your final homework grade.

Quizzes:

- The on-line quizzes can be attempted up to four times prior to the due date.
- A minimum score of 70% on all related homework assignments allows the student to access the quiz.
- Your best score will be recorded.
- You are not allowed any assistance on a quiz.
- Work submitted must be your own.
- Check your daily schedule for the exact date and time a quiz is due for your particular class.
- Quizzes should be used as preparation for tests. Take the quizzes until you can do the work correctly without any assistance from tutors, notes, or software tutorials.
- At the end of the semester, the highest of each of the eight quizzes will be averaged to determine the final quiz grade.

Tests:

- To prepare for the tests by completing all homework and quizzes and your personal STUDY PLAN working until you are able to correctly answer questions without any assistance from software tutorials, notes or tutors. The STUDY PLAN is not graded.
- The proctored, password-protected tests using *MyMathLab* must be take on campus at the scheduled time.
- Only one attempt is allowed for each test.
- You are not allowed any assistance on this test.

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MATH 101 E.S. • COLLEGE ALGEBRA • FALL 2011 SYLLABUS

Retake/ Makeup Tests:

Students meeting the minimum required participation will be allowed to take **one retake/makeup test** on a date scheduled at the end of the semester.

Final Exam:

- The final exam will be scheduled during final exam week.
- If you miss the final exam for a valid reason, contact your instructor immediately.

Withdrawals: The last day to drop this class with a "W" is **Wednesday, November 2nd, 2011**

Course Compass/MyMathLab:

- **Course Compass/MyMathLab** is an online software program you will use for this class.
- All graded assessments are delivered using this on-line software by Pearson Education.
- Assessment exercises in *MyMathLab* are algorithmically generated iterations of textbook exercises.

Learning the Material:

- **Keep a Notebook** of your class notes and other work for reference.
- **Read the Sections in the Online Text Book.** The online text book can be found under Chapter Contents.
- **Watch the Multimedia Videos.** Videos can be accessed through MyMathLab. In addition, videos can be accessed at <http://math.nicholls.edu/mew>
- **Work the Homework** utilizing the buttons:
 - HELP ME SOLVE THIS:** Guides you step by step through the problem.
 - VIEW AN EXAMPLE:** Shows you a similar example explained step by step.
 - TEXTBOOK:** Brings you directly to the online content.
 - VIDEO** (*available for some problems*): Short multimedia presentation on the particular problem.
 - SIMILAR EXERCISE:** Will allow you to work another similar problem.
- **Take the Quiz.** After taking the quiz, you can review it and get immediate feedback.
- **Work the Study Plan.** After a quiz, go to the personalize study plan to see what topics you need to practice.
- **Get Tutoring.** Visit the MEW Facility or contact your instructor.

Administrative Adds: *Absolutely no administrative adds will be permitted on or following the first class week.*

Academic Dishonesty Policy and Disruptive Behavior: Section Five of the Code of Student Conduct, Academic Dishonesty and Disruptive Behavior,' includes a requirement that faculty file a charge complaint statement with their respective dean whenever a student is confronted or disciplined for cheating. The Office of Academic Affairs will maintain these records, and any student confronted and/or disciplined for multiple offenses of academic dishonesty will be brought before the Academic Affairs Integrity Committee for further review and potential sanctions. Please read the Code of Student Conduct for further details regarding this policy."

Compliance with the Americans with Disabilities Act: If you have a documented disability that requires assistance, you will need to register with the Office of Disability Services for coordination of your academic accommodations. The Office of disability Services is located in Room 158A Shaver Gym, phone number (985) 448-4430.

MATH 101 E.S. • COLLEGE ALGEBRA • FALL 2011 SYLLABUS

Academic Grievances:

The proper procedure for filing grade appeals or grievances related to academic matters is listed in Section 5 of the Code of Student Conduct and at the following link:

http://www.nicholls.edu/documents/student_life/code_of_conduct.pdf

Continued Learning following an Extreme Emergency:

In order to make continued learning possible following an extreme emergency, students are responsible for:

- reading regular emergency notifications on the NSU website;
- knowing how to use and access Blackboard (or university designated electronic delivery system);
- being familiar with emergency guidelines;
- evacuating textbooks and other course materials;
- knowing their Blackboard (or designated system) student login and password;
- contacting faculty regarding their intentions for completing the course.

Faculty is responsible for:

- their development in the use of the Blackboard (or designated) software;
- having a plan for continuing their courses using only Blackboard and email;
- continuing their course in whatever way suits the completion of the course best, and being creative in the continuation of these courses;
- adjustments or compensations to a student's progress in special programs with labs, clinical sequences or the like only in the immediate semester following the emergency.

Notes about the Schedule:

Do not wait to the last minute to complete your assignments!

- The next homework assignment will become available when the student scores a 60% on the previous homework.
- Quizzes will become available when the student has a 70% average on all related homework assignments.
- All homework and quiz assignments are due at 8:00pm on their DUE DATE.
- Quizzes will not be extended past the due date.
- Homework submitted late will reduce the assignment grade by 15%.

Sections Included on Quizzes

Quiz 1 R.2,R.7,1.1,1.2

Quiz 2 1.4,1.5,1.6

Quiz 3 2.1,2.2,2.3

Quiz 4 2.5,3.1,3.2,3.3

Quiz 5 3.4,4.3,4.5

Quiz 6 6.1,6.2,R.8

Quiz 7 6.3,6.4,6.5

Quiz 8 6.6,12.1

Sections Included on Test

Test 1 R.2,R.7,1.1,1.2,1.4,1.5,1.6

Test 2 2.1,2.2,2.3,2.5,3.1,3.2,3.3,3.4,4.3,4.5

Test 3 6.1,6.2,R.8,6.3,6.4,6.5,6.6,12.1

Final Exam ALL SECTIONS

Suggested Homework assignment—this is not a graded assignment

Section	Page	Problems	Section Description
R.2	26-28	39-68, 73-106, 111-118	Algebra Essentials
R.7	70-71	5-24, 35-46, 61-66	Rational Expressions
1.1	90	17-55	Linear Equations
1.2	101-102	9-22, 29-34, 41-70, 77-90	Quadratic Equations
1.4	117-118	7-22, 33-36	Radical, Quadratic-type and Factorable Equations
1.5	127-128	23-30, 53-76	Inequalities
1.6	132-133	7-23, 35-48	Equations and Inequalities Involving Absolute Value
2.1	155	35-42, 49-50	(midpoint) Rectangular Coordinate System
2.2	165	11-16, 17-28, 39-46	Intercepts and Symmetry
2.3	178-179	11-106	Lines
2.5	192	21-22, 24, 27-31	Variation
3.1	211	39-60	Functions
3.2	218-219	9, 10, 11-22, 23-28	Graph of a Function
3.3	230-231	11-20, 21-28	Properties of Functions
3.4	241-242	9-38	Graphs of Basic Functions and Piecewise-defined Functions
4.3	297-298	11-18, 31-62	Quadratic Functions
4.5	312	7-24	Inequalities Involving Quadratic Functions
6.1	406-407	4 to 42	Composite Functions
6.2	417-419	11-69	Inverse Functions
R.8	78-80	43-50, 55-79, 89-94, 99-106	nth Roots; Rational Exponents
6.3	432-434	15-24, 33-80, 81-84	Exponential Functions
6.4	446-448	9-36, 49-52, 87-110	Logarithmic Functions
6.5	457-458	13-22, 37-46, 57-62, 71-78	Properties of Logarithmic Functions
6.6	463	5-48	Solving Logarithmic and Exponential Equations
12.1	854-855	17-38	Solving Systems of Equations

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MATH 101 E.S. • COLLEGE ALGEBRA • FALL 2011 SYLLABUS

Early Start Schedule - Math 101, Fall 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Aug 14	Aug 15	Aug 16	Aug 17	Aug 18 FOCUS R.2,R.7 ENROLL STUDENTS COURSE COMPASS	Aug 19	Aug 20 0:30
Aug 21	Aug 22	Aug 23	Aug 24 HW DUE R.2	Aug 25 FOCUS 1.1	Aug 26	Aug 27 2:00
Aug 28	Aug 29	Aug 30	Aug 31 HW DUE R.7,1.1	Sep 1 FOCUS 1.2,1.4	Sep 2	Sep 3 2:00
Sep 4 Labor Day Holiday	Sep 5	Sep 6	Sep 7 HW DUE 1.2,1.4	Sep 8 FOCUS 1.5,1.6	Sep 9	Sep 10 2:00
Sep 11	Sep 12	Sep 13	Sep 14 HW DUE 1.5,1.6 QZ 1&2 DUE	Sep 15 FOCUS 2.1,2.2 Test 1	Sep 16	Sep 17 1:00
Sep 18	Sep 19	Sep 20	Sep 21 HW DUE 2.1,2.2	Sep 22 FOCUS 2.3,2.5	Sep 23	Sep 24 2:00
Sep 25	Sep 26	Sep 27	Sep 28 HW DUE 2.3,2.5	Sep 29 FOCUS 3.1,3.2	Sep 30	Oct 1 2:00
Oct 2	Oct 3	Oct 4	Oct 5 HW DUE 3.1,3.2	Oct 6 FOCUS 3.3,3.4	Oct 7	Oct 8 2:00
Oct 9	Oct 10	Oct 11	Oct 12 HW DUE 3.3,3.4	Oct 13 FOCUS 4.3,4.5 FALL BREAK – NSU closed	Oct 14	Oct 15 1:00
Oct 16	Oct 17	Oct 18	Oct 19 HW DUE 4.3,4.5 QZ 3,4 & 5 DUE	Oct 20 FOCUS 6.1,6.2 Test 2	Oct 21	Oct 22 1:00
Oct 23	Oct 24	Oct 25	Oct 26	Oct 27 FOCUS R.8,6.3	Oct 28	Oct 29 2:00
Oct 30	Oct 31	Nov 1	Nov 2 W HW DUE 6.1,6.2,R.8	Nov 3 FOCUS 6.4,6.5	Nov 4	Nov 5 2:00
Nov 6	Nov 7	Nov 8	Nov 9 HW DUE 6.3,6.4	Nov 10 FOCUS 6.6,12.1	Nov 11	Nov 12 2:00
Nov 13	Nov 14	Nov 15	Nov 16 HW DUE 6.5,6.6,12.1 QZ 6,7 & 8 DUE	Nov 17 Test 3	Nov 18	Nov 19 1:00
Nov 20	Nov 21	Nov 22	Nov 23	Nov 24	Nov 25	Nov 26
Thanksgiving Holidays, NSU closed						
Nov 27	Nov 28 LATE HW DUE	Nov 29 Makeup/ Retake MEW Facility	Nov 30 STUDY DAY	Dec 1 FINAL EXAM	Dec 2	Dec 3
Dec 4	Dec 5	Dec 6	Dec 7	Dec 8	Dec 9	Dec 10
November 2, 2011 is last day to drop with a W						

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