NICHOLLS
STATE UNIVERSITY

==MATH 101== ● *College Algebra* ● *SPRING 2011 Syllabus*

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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, *8th Edition* by Sullivan. Pearson/Prentice Hall, 2008. 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 S**cientific or Graphics Calculator**.

- **Calculators with built-in computer algebra systems are prohibited.**
  Prohibited calculators in this category include:
    o 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.
    o Hewlett-Packard: **HP 48GII** and all model numbers that begin with **HP 40G**, **HP 49G**, or **HP 50G**
    o 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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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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Final Grade:

6%	MyMathLab Online Homework based upon the average of the 25 homework assignments
9%	MyMathLab Online Quizzes based on the average of the 8 quizzes.
3%	Weekly M.E.W. Facility requirements.
2%	Participation in weekly Focus Meetings.
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 meetings:

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.
- Class **focus** meeting dates are noted on schedule. Your instructor will present, in the form of a lecture, an overview of the topics to be covered.
- **Participation in class is required*.** It is the student's responsibility to know the **focus** meeting dates.
- It is recommended that you keep a notebook with all of your class notes and other work it in so that you can refer back to this whenever necessary.
- Absence, tardiness or early departure during class focus meetings is considered as a focus meeting absence.
- ***All cell phones, laptop computers and any other electronic devices that beep or ring must be turned off during class.***

M.E.W. Facility (Mathematics Enrichment Workplace):

Refer to your class schedule to determine your M.E.W. Minimum Attendance Requirement.

- The student learning will continue in a lab setting using MyMathLab interactive software with instructors present to assist.
- The Math Enrichment Workplace (MEW facility) is located on the first floor in Ellender Library. The map can be found at: http://math.nicholls.edu/mew/map.asp
- **Minimum attendance in the MEW facility per week* is required.** Plan to spend more time than the minimum either in the MEW facility or elsewhere in order to master the material. Facilitators will be in MEW facility ready to provide you with immediate, personalized help.
- Facility hours can be found at http://math.nicholls.edu/mew. Changes in the hours of operation will be posted on the website.
- Students must clock in upon entering the MEW facility and clock out when leaving. The time in the facility will be recorded. It is the student's responsibility to verify upon entering the MEW facility or exiting the MEW facility that he or she has indeed clocked in or out. **Refer to your MEW schedule to determine the participation week time requirement.**
- **You are expected to be doing only your college algebra work or your math-related activities while you are in the MEW facility.** The penalty for violating this rule will be a zero in MEW participation for that week even if all required hours have been completed. Chronic violators will be turned over to the Dean of Students and dealt with appropriately, which may include being charged with a violation of the Code of Student Conduct and Academic Dishonesty.
- **Absolutely no <u>cell phones</u>, <u>music devices</u>, <u>food, drinks</u>, <u>gum</u> or <u>candy</u> is allowed in the MEW facility.** Only containers stowed away in bags are allowed in the facility. **Cell phones and any other electronic devices (except calculators) must be turned off and stowed away in the MEW facility.**
- Hours earned in one week over the minimum required hours do not "rollover" to the next week

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- No credit is earned for less than the minimum required MEW participation hours in a week. All hours earned accumulate toward the total time requirement for makeup/retake tests.
- **Always bring your math notebook with you to the MEW facility**. Extra paper is NOT available in the facility. Do all of your work in it in an orderly manner and refer back to this work whenever necessary.

Attendance Policy: Students are required to attend each focus group meeting and work required minimum hours in the MEW facility each weekly period. In addition the student will be responsible for taking the three chapter tests and the final exam at their scheduled test time. Students representing the university in any official capacity must contact their instructor in advance in order to make any needed adjustments to their schedule. Class participation focus meetings and minimum MEW participation time is essential to the student's success, thus failure to participate cannot be excused.

Failure to Meet Participation Requirement: Attendance in class is mandatory. Tardiness/ early departure are counted as an absence. **Students failing to meet the minimum weekly MEW participation requirement three times will be automatically dropped from the course.**

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.
- You 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 ten times prior to the due date.
- 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:

- 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.
- After completing all homework and quizzes prepare for tests by completing your STUDY PLAY working until you are able to correctly answer questions without any assistance from software tutorials, notes or tutors. The STUDY PLAN is not graded.

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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 **Monday, March 28th, 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 EXECISE: 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.

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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.

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Getting Started:

1st Watch the following video introduction: http://math.nicholls.edu/mew/registerhelp.asp

2nd Go to http://coursecompass.com and complete the registration as described in the video above.

3rd Login to Course Compass (http://coursecompass.com)

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4th Familiarize yourself with the software.

ANNOUNCEMENTS: It is your responsibility to check announcements on this page.

DO HOMEWORK: Click here to complete your homework assignments.

TAKE A TEST: Click here to complete your quizzes.

GRADEBOOK: Click here to see your grade book.

STUDY PLAN: Click here for additional problem solving. These are non-graded assignments.

CHAPTER CONTENTS: Click here to view the **Online Text Book**.

MUTLIMEDIA LIBRARY: Click here for multimedia content for a particular topic.

COMMUNICATION: Click here for communications.

TOOLS: Click here for additional tools.

INSTALLATION WIZARD: Click here if you are having trouble accessing the homework or quizzes.

5th Start working on your homework and quizzes.

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Notes about the Schedule:

Do not wait to the last minute for assignments. Late work is not accepted!

- 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 each related homework assignments.
- Student must score 40% on quiz before the next homework assignment becomes available.
- Homework and quizzes will not be extended past the due date.

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

M.E.W. WEEKLY REQUIREMENTS

Week	Math 101 M.E.W Hours Required
Week 1	*30 minutes*
Week 2	*2 hours*
Week 3	*2 hours*
Week 4	*2 hours*
Week 5	*2 hours*
Week 6	*2 hours*
Week 7	*2 hours*
Week 8	*1 hours (Mardi Gras)*
Week 9	*2 hours*
Week 10	*2 hours*
Week 11	*2 hours*
Week 12	*2 hours*
Week 13	*2 hours*
Week 14	*2 hours*
TOTAL	**25 HOURS 3O MINUTES**

Homework assignments associated with the text book Algebra and Trigonometry, *8th Edition* by Sullivan. Pearson/Prentice Hall, 2008
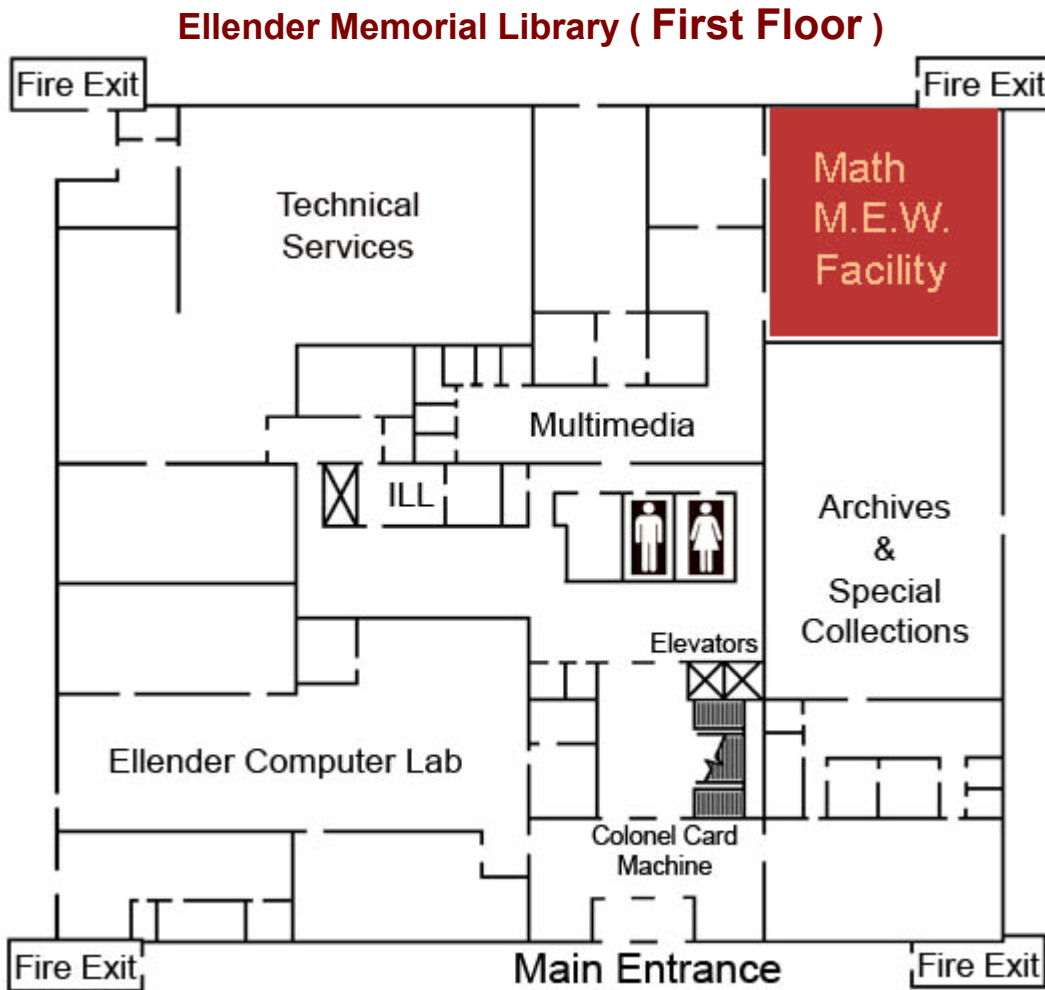
The online PDF version of the text book can be found in Course Compass under the Chapter Contents **button.**

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These assignments are not graded.

Section	Page	Problems	Section Description
R.2	26-27	39-68, 73-106, 111-118	Algebra Essentials
R.7	69-70	5-24, 35-46, 61-66	Rational Expressions
1.1	94-95	17-55	Linear Equations
1.2	106-107	9-22, 29-34, 47-70, 79-90	Quadratic Equations
1.4	122-123	7-21, 33-36	Radical, Quadratic-type and Factorable Equations
1.5	132-133	23-28, 53-76	Inequalities
1.6	138	7-23,35-48	Equations and Inequalities Involving Absolute Value
2.1	161	35-44, 49-50	(midpoint) Rectangular Coordinate System
2.2	171	11-16, 17-28, 39-46	Intercepts and Symmetry
2.3	185-187	11-102	Lines
2.5	199-200	21-22, 24, 27-28	Variation
3.1	220	39-60	Functions
3.2	227-228	9, 10, 11-22, 23-28	Graph of a Function
3.3	238-239	11-20, 21-28	Properties of Functions
3.4	249	9-38	Graphs of Basic Functions and Piecewise-defined Functions
4.3	302-303	11-18, 35-66	Quadratic Functions
4.5	316	7-24	Inequalities Involving Quadratic Functions
6.1	407-408	4 to 42	Composite Functions
6.2	419-421	9-67	Inverse Functions
R.8	77-78	43-50, 55-79, 89-94, 99-106	nth Roots; Rational Exponents
6.3	433-434	11-20, 29--76, 83-86	Exponential Functions
6.4	446-448	9-36, 49-52, 87-110	Logarithmic Functions
6.5	457	7-16, 31-40, 51-56, 65-72	Properties of Logarithmic Functions
6.6	463	5-48	Solving Logarithmic and Exponential Equations
12.1	847	17-38	Solving Systems of Equations

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Map of the M.E.W. Facility (Mathematics Enrichment Workplace)

Ellender Memorial Library (First Floor)

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Tuesday/Thursday FOCUS SCHEDULE- Math 101, Sp2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Jan 16	Jan 17	Jan 18	Jan 19	Jan 20 **FOCUS R.2,R.7** ****See note.**	Jan 21	Jan 22 **0:30**
Jan 23	Jan 24	Jan 25 **FOCUS R.2,R.7**	Jan 26	Jan 27 **FOCUS 1.1,1.2**	Jan 28	Jan 29 **2:00**
Jan 30	Jan 31	Feb 1 **FOCUS 1.1,1.2**	Feb 2	Feb 3 **FOCUS 1.4,1.5**	Feb 4	Feb 5 **2:00**
Feb 6	Feb 7	Feb 8 **FOCUS 1.4,1.5**	Feb 9	Feb 10 **FOCUS 1.6**	Feb 11	Feb 12 **2:00**
Feb 13	Feb 14	Feb 15 **FOCUS 2.1,2.2**	Feb 16 **HW/QUIZ DUE**	Feb 17 **Test 1 MEW Facility**	Feb 18	Feb 19 **2:00**
Feb 20	Feb 21	Feb 22 **FOCUS 2.3,2.5**	Feb 23	Feb 24 **FOCUS 2.3,2.5**	Feb 25	Feb 26 **2:00**
Feb 27	Feb 28	Mar 1 **FOCUS 3.1,3.2**	Mar 2	Mar 3 **FOCUS 3.1,3.2**	Mar 4	Mar 5 **2:00**
Mar 6	Mar 7 **Mardi Gras/Ash Wednesday - University Closed**	Mar 8	Mar 9	Mar 10 **FOCUS 3.3,3.4**	Mar 11	Mar 12 **1:00**
Mar 13	Mar 14	Mar 15 **FOCUS 3.3,3.4**	Mar 16	Mar 17 **FOCUS 4.3,4.5**	Mar 18	Mar 19 **2:00**
Mar 20	Mar 21	Mar 22 **FOCUS 4.3,4.5**	Mar 23 **HW/QUIZ DUE**	Mar 24 **Test 2 MEW Facility**	Mar 25	Mar 26 **2:00**
Mar 27	Mar 28 **W**	Mar 29 **FOCUS 6.1,6.2**	Mar 30	Mar 31 **FOCUS 6.1,6.2**	Apr 1	Apr 2 **2:00**
Apr 3	Apr 4	Apr 5 **FOCUS R.8,6.3**	Apr 6	Apr 7 **FOCUS R.8,6.3**	Apr 8	Apr 9 **2:00**
Apr 10	Apr 11	Apr 12 **FOCUS 6.4,6.5**	Apr 13	Apr 14 **FOCUS 6.4,6.5**	Apr 15	Apr 16 **2:00**
Apr 17	Apr 18	Apr 19 **FOCUS 6.6,12.1**	Apr 20	Apr 21 **FOCUS 6.6,12.1**	Apr 22	Apr 23 **2:00**
Apr 24	Apr 25 **Spring Break - university closed**	Apr 26	Apr 27	Apr 28	Apr 29	Apr 30
May 1	May 2 **HW/QUIZ DUE**	May 3 **Test 3 MEW Facility**	May 4	May 5 **FINAL EXAM IN MEW Facility** 10:30am-1M,1T	May 6 **FINAL EXAM IN MEW Facility** 8:00am-4M,4M1,3T	May 7
May 8	May 9 **FINAL EXAM IN MEW Facility** 8:00am-2M,3M,2T 10:30-5M,4T	May 10	May 11 10:30am-5T	May 12	May 13	May 14
March 28, 2011 is last day to drop with a W						

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