COURSE SYLLABUS

Course Prefix/Number: MAC 1105 [Sections 1174 at a distance AND 1175 face-to-face – Spring 2013]

Course Title: College Algebra

Course Credit Hours: 3

Instructor Name and Contact Information:
Mrs. L. Bushway
Office: Bldg 4/329
Email: lbushway@uwf.edu
Phone: 850.857.6020

Location/Time: Bldg 4/305 (or logged in LIVE) on Tuesdays and Thursdays, 9:30-10:45 am Central

Office Hours: MWF 9-11 am; TR 8-9 am; R 11-1 pm

Prerequisite: MAT 1033 or appropriate algebra background.

Course Description:
Provides the concepts and techniques of algebra that are needed to understand subjects such as statistics and economics which contain a considerable amount of quantitative reasoning. It is, additionally, a preparatory course for the study of calculus. Major topics include: the concept of functions, graphs of functions and relations, operations on functions, rational functions, exponentials and logarithms, systems of equations and inequalities, applications. Prerequisite course or appropriate algebra background is required. Students may earn only 3 semester hours credit toward Gordon Rule for combination of MAC 1105 and MAC 1140. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/ALG)

Student Learning Outcomes:
Upon completion of the course the student will:
- Demonstrate the ability to identify functions and their properties.
- Demonstrate the ability to analyze and graph polynomial, rational, radical, exponential, and logarithmic functions.
- Demonstrate the ability to perform operations on these functions.
- Solve exponential and logarithmic equations.
- Solve systems of linear equations.
- Solve problems involving applications of algebraic and transcendental functions.

Topics Covered:

Program/Class Information:
MAC1105 College Algebra is designated as a General Studies course. The General Studies curriculum at the University of West Florida is designed to provide a cohesive program of study that promotes the development of a broadly educated person and provides the knowledge and skills needed to succeed in
university studies. This course has been approved as meeting the requirement in the Mathematics area. The General Studies learning outcomes for this course as referred to the Academic Foundations Domains are Problem Solving and Quantitative Reasoning.

Required materials:
OR

MyMathLab is required in order to complete homework and includes the entire electronic version of the textbook. Purchase of the hard copy of the textbook is optional and is dependent on your learning style and personal needs. You may purchase the hard copy WITH MyMathLab student access kit at the UWF bookstore or from any other usual textbook sources. You may purchase MML by itself from usual online sites or http://www.mymathlab.com/buying.html by credit card only (Visa, MC, AMEX).

Important Note: MyMathLab contains the entire online textbook, so use your best judgment as to whether you need a hard copy of the textbook or not.

About this Course:
This course is delivered simultaneously both face-to-face and completely online with participation of all students during the scheduled class days and time. Tests, quizzes, and homework are online for all students. All students will take the required proctored final exam at UWF or at an approved testing center near your distant location. You must have consistent and frequent access to the Internet. You will check your UWF email regularly and schedule regular HW and study times each week.

Learning at a distance may be a very different environment for many of you. You will attend class live in the classroom or live online – both are Tuesdays and Thursdays at 9:30 am Central Time. Within that schedule, you will do the out-of-class work generally at your own schedules, participate in class activities at your convenience, and work at your own pace. You may require some additional time online during the first few weeks while you become acclimated to the online format and you may even feel overwhelmed at times. You should be prepared to spend approximately 5-6 hours per week online completing homework, quizzes, and activities and participating in class discussions. Finally, you may want to incorporate these tips to help you get started:

- Attend the introductory Elluminate session - no kidding! Info will be emailed to your UWF email address - check your email daily.
- Plan your schedule to attend the class in person or online Elluminate sessions "live" on your computer each Tuesday and Thursday morning 9:30-10:45 am Central Time (USA).
- Register with CourseCompass/MyMathLab on the first day of class. We don't have any time to waste in this class. Pearson allows a 17-day temporary registration for students whose financial aid hasn’t come in yet, so you can register immediately.
- Put all due dates on your calendar!
- Set a time each week and make it part of your schedule to:
  - Check the course web site to determine your tasks for the week.
  - Check the course web site frequently throughout the week for updates.
  - Check your University email for emails from me.
- Within the first week, become familiar with the site and how to use it.
View this eLearning Demo.
- Register for MyMathLab immediately and get to work on your homework right away.
- Team up with your classmates to discuss class assignments and questions you might have.
  - Check the “Classlist” link “?” for fellow student biography information and email addresses.
- Ask questions when you need answers.
  - If you have problems, contact me early.

PLEASE NOTE:
Because these sections of MAC1105 are taught with Elluminate at the same time to both distant and face-to-face students, I’ll apply the same ‘rules and regs’ to both groups whenever possible – in order to make everything as equal/fair/equivalent/etc. as possible.

So:
Everyone will do homework on MyMathLab
Everyone will take quizzes by themselves on MyMathLab
Everyone will take tests by themselves on MyMathLab
Everyone will take the final exam by themselves (no notes, formula sheets, or books) at one of the following locations:
(1) at UWF with me on SATURDAY April 27 at 9:15 AM (Building/Room TBA) – NO proctor form necessary, or
(2) at an approved testing location on THURSDAY April 25 or FRIDAY April 26 – PROCTOR approval and PROCTOR FORM are required

Grading / Evaluation:
The three tests will be administered and taken online - each test will appear on CourseCompass/MyMathLab early Saturday morning and will be available until midnight Monday night - according to the dates in the schedule. Each student will choose a single, continuous, uninterrupted 75-minute time period in which to take each test using a stable and reliable Internet connection.
DO NOT WAIT UNTIL THE DEADLINE TO TAKE THE TESTS!!!

There will be an online quiz during the non-test weeks. The quizzes will open on Sunday morning and close at midnight Monday. Each quiz is scheduled for approximately 40 minutes. DO NOT WAIT UNTIL 11:35 pm TO TAKE THE QUizzes EITHER!!

Absolutely no make-up tests will be provided. If a student misses a test, then the instructor will assign a zero for the missed test score, unless otherwise justified. With documented justification from the student and approval by me, I’ll record the student’s final exam grade in place of the missed test score; otherwise, the zero score will remain. This arrangement is only available once per student per class. Everyone must take the final exam. There are no opportunities for “extra credit” work for grade enhancement purposes.

Because students will have the three-day time period for each test, it is unlikely that you’ll experience many conflicts with approved University functions - including travel to or participation in athletic competitions, academic and student activities, debates or other academic competitions, student government conferences, etc. Let me know as soon as you know about any absence - be prepared to furnish all necessary documentation.
In cases of emergency, please make an effort to take the tests as scheduled if possible; if not, again, let me know as soon as possible and be prepared to furnish documentation.

The course score will be computed as follows: 20% Homework, 50% Tests (Three), 30% Final Exam. Quiz scores will determine if 0-5 points will be added to each test score.

Only standalone calculators are allowed during tests and exams – no notes, formula sheets, or books.

The course grade will be assigned according to the following scale:

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 and above</td>
<td>A or A-</td>
</tr>
<tr>
<td>80-89</td>
<td>B+, B, or B-</td>
</tr>
<tr>
<td>70-79</td>
<td>C+, C, or C-</td>
</tr>
<tr>
<td>60-69</td>
<td>D+ or D</td>
</tr>
<tr>
<td>59 and below</td>
<td>F</td>
</tr>
</tbody>
</table>

**NOTE:** HW not completed by each corresponding test date may still be completed before the final exam – but with a penalty of 20%. So for full credit, earn your 100% by each test date.

**Proctored Exam Information and Proctor Form:**
Students who live in the greater Pensacola area will take the exam on Saturday April 27 at 9:15 am Central time – location at UWF will be announced later – and NO PROCTOR FORM is necessary. Students who live in distant locations will take their exam at approved locations on April 25 or 26 and MY PROCTOR FORM AND APPROVAL ARE REQUIRED.

If you live away from the Pensacola area and want to take the final exam in your distant area, you must let me know during the first several weeks of class – and arrange for your proctor well before the exam. I must approve any proctoring arrangement.

The proctored exam form I want you to use is posted on our class eLearning website. Here is some UWF information about proctored exams in general: [http://onlinecampus.uwf.edu/class/proc_exams.cfm](http://onlinecampus.uwf.edu/class/proc_exams.cfm).

***No notes*** are allowed on the final exam (wherever you take it), and several forms of identification are required to take the exam.

**Attendance Policy:**
I expect that all students will attend class online or face-to-face during the specified times - I will take attendance several times each session. Class participation is expected and will be instrumental for a successful outcome. The Elluminate sessions will be recorded and sent to online students after a period of time. This does not change my expectations for your attendance.

Only a very few online students have permission not to attend class, based entirely on their time zone or military service. Unless you have already gotten that permission from me, I'll look forward to seeing you live online during EVERY class.
Withdrawal Policy:
Withdrawal deadline: Mar 21 (Automatic grade of W)
Late withdrawal deadline: Apr 25 (W or WF, see the requirements below)

Students who are requesting a *late withdrawal* from class, must have the approval of the advisor, instructor, and department chairperson (in that order) and finally, by the Academic Appeals committee.

Requests for late withdrawals may be approved only for the following reasons (which must be documented):
1. A death in the immediate family.
2. Serious illness of the student or an immediate family member.
3. A situation deemed similar to categories 1 and 2 by all in the approval process.
4. Withdrawal due to Military Service *(Florida Statute 1004.07)*
5. National Guard Troops Ordered into Active Service *(Florida Statute 250.482)*

Requests without documentation should not be accepted. A request for a late withdrawal simply for not succeeding in a course does not meet the criteria for approval and should not be approved.

Special Technology Utilized by Students:
- Use of any standalone calculator is allowed during tests and exams – no phone, laptop, tablet, etc.
- MyMathLab – the publisher’s material to support this online course. MyMathLab contains the complete online version of your textbook with links to multimedia resources, such as video clips, PowerPoint slides, and practice exercises correlated to the examples and exercises in the text. You will use MyMathLab for your online homework, quizzes, and tests. MathLab also generates a personalized study plan based on your results which links you to unlimited tutorial exercises for further study. This allows you to practice until you have mastered the skills. All the online homework, quizzes, and tests are tracked in your MyMathLab gradebook. Follow the instructions to register.

Minimum Technical Skills and Special Technology Utilized by Students:
This section contains both face-to-face and online students. Because ALL students use computers EXTENSIVELY in this class, all students need to know baseline word processing skills and how to send/receive email with attachments, search the Internet, scan documents, and upload / download files. You may use a calculator for homework, quizzes, tests, and on the final exam. Be sure you know how to show the steps in the problems. In addition, students may need one or more of the following plug-ins:

- For students’ using Screen Readers: Download Elluminate’s Java Bridge: [https://www.elluminate.com/Support/Other_Resources/Java_Accesibility_Bridge/?id=368](https://www.elluminate.com/Support/Other_Resources/Java_Accesibility_Bridge/?id=368)
- eLearning’s Accessibility Resource Guides for users: [http://www.desire2learn.com/access/resources/](http://www.desire2learn.com/access/resources/)
MyMathLab – What do I need to get started?

You will need the following materials to register for your online course materials:

<table>
<thead>
<tr>
<th>A Valid Email Address</th>
<th>Don’t have it yet? Contact your school’s technology center or set up a free account on a web site that offers this service (for example, through Hotmail or Yahoo).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course ID (CourseCompass students only)</td>
<td>Don’t have it yet? Contact your instructor to get it. The Course ID is unique for each course.</td>
</tr>
<tr>
<td>Student Access Code</td>
<td>Don’t have it yet? If your new textbook was not bundled with a Student Access Code, you need to:</td>
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<tr>
<td></td>
<td>• Go to your campus bookstore to buy the standalone Student Access Kit (kit contains access code card and instructions) for your textbook OR</td>
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<tr>
<td></td>
<td>• Purchase online access now using a credit card.</td>
</tr>
</tbody>
</table>

**Important Note:**
Pearson allows a 17-day temporary MML access for students who don’t receive their financial aid early. Register right away and then verify your student access code when you receive your financial aid. The temporary accounts will disappear after 17 days, but your work is saved if you verify your code BEFORE the end of the trial period.

**Important Note:**
In the past, MML has worked properly only on Windows PC’s using MS Internet Explorer. **Mac folks: try Firefox and not Safari.** Students who do not have a PC with Internet Explorer installed can access MML on UWF computers at various locations on campus. Check with the Pearson Tech number for questions!!

**What steps do I take next?**
Take the access card, review the grid above one more time, and then follow steps 1-8 below.

1) Go to www.coursecompass.com (you’ll be redirected to http://pearsonmylabandmastering.com/?cc) and click on Register. [There’s also other good information for you there]
2) Enter your six-word student access code (I think ALL CAPS are important), school zip code, and country.
3) Enter the Course ID for Spring 2013: bushway24954 (or, in black ink, bushway24954)
4) Fill in the requested information, and then create your unique Login Name and Password. Please use your email address as your login name.
5) Return to www.coursecompass.com and log in. At the Welcome page, click on the course you are taking.
6) The first time you enter the site from your computer and anytime you use a new computer, click on the Browser Check on the first page or the software Installation Wizard on the Announcements page or on the navigational buttons on the bottom left side of the screen. This wizard will walk you through the installation of the software you will need to use the MyMathLab resources. Note: the software may already be installed in the school lab. Check with your lab administrator.
7) Technical problems? Call Tech Support at 800-677-6337, M F 8am – 5pm Central time.
Don’t forget, MyMathLab includes **FREE** access to the AW Tutor Center. Toll free 888-777-0463, Sunday to Thursday 4pm – 11pm Central time.

**Expectations for Academic Conduct/Plagiarism Policy:**
As members of the University of West Florida, we commit ourselves to honesty. As we strive for excellence in performance, integrity—personal and institutional—is our most precious asset. Honesty in our academic work is vital, and we will not knowingly act in ways which erode that integrity. Accordingly, we pledge not to cheat, nor to tolerate cheating, nor to plagiarize the work of others. We pledge to share community resources in ways that are responsible and that comply with established policies of fairness. Cooperation and competition are means to high achievement and are encouraged. Indeed, cooperation is expected unless our directive is to individual performance. We will compete constructively and professionally for the purpose of stimulating high performance standards. Finally, we accept adherence to this set of expectations for academic conduct as a condition of membership in the UWF academic community.

**Assistance:**
The Student Disability Resource Center (SDRC) at the University of West Florida supports an inclusive learning environment for all students. If there are aspects of the instruction or design of this course that hinder your full participation, such as time-limited exams, inaccessible web content, or the use of non-captioned videos and podcasts, please notify the instructor or the SDRC as soon as possible. You may contact the SDRC office by e-mail at sdrc@uwf.edu or by phone at (850) 474-2387. Appropriate academic accommodations will be determined based on the documented needs of the individual.

**WEATHER EMERGENCY INFORMATION**
In the case of severe weather or other emergency, the campus might be closed and classes cancelled. Official closures and delays are announced on the UWF website, Argo Alerts texted to cell phones, and broadcast on WUWF-FM.

**Weather Emergency Information**
- WUWF-FM (88.1MHz) is the official information source for the University. Any pertinent information regarding closings, cancellations, and re-openings will be broadcast.
- In the event that hurricane preparation procedures are initiated, the [UWF Home Web Page](http://uwfhome.webapps.uwf.edu) and [Argus](http://uwfhome.webapps.uwf.edu) will both provide current information regarding hurricane preparation procedures, the status of classes and the closing of the University.

Emergency plans for the University of West Florida related to inclement weather are available on the following UWF web pages:

Information about hurricane preparedness plans is available on the UWF web site: [http://uwfemergency.org/hurricaneprep.cfm](http://uwfemergency.org/hurricaneprep.cfm)

Information about other emergency procedures is available on the UWF web site: [http://uwfemergency.org/](http://uwfemergency.org/)

**Tentative schedule and HW/Quiz/Test/Exam information are on the following pages...**

**TENTATIVE SCHEDULE** – changes will be announced in class, sent via email, and posted to eLearning
<table>
<thead>
<tr>
<th>Session 1</th>
<th>Jan 8-14</th>
<th>Functions and Graphs</th>
<th>Quiz 1: Sun-Mon, Jan 13-14</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.2</td>
<td>Linear Functions, Slopes, and Applications</td>
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<td>1.3</td>
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<tr>
<td>Session 2</td>
<td>Jan 15-21</td>
<td>Equations of Lines and Modeling</td>
<td>Quiz 2: Sun-Mon, Jan 20-21</td>
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<tr>
<td></td>
<td>1.4</td>
<td>Linear Equations, Functions, Zeros, and Apps</td>
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<td>1.5</td>
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<tr>
<td>Session 3</td>
<td>Jan 22-28</td>
<td>Incr, Decr, &amp; Piecewise Functions; Apps</td>
<td>Quiz 3: Sun-Mon, Jan 27-28</td>
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<tr>
<td></td>
<td>2.1</td>
<td>The Algebra of Functions</td>
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<td>2.2</td>
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<tr>
<td>Session 4</td>
<td>Jan 29-Feb 4</td>
<td>The Composition of Functions</td>
<td>Quiz 4: Sun-Mon, Feb 3-4</td>
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<td></td>
<td>2.3</td>
<td>Symmetry and Transformation</td>
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<td></td>
<td>2.4</td>
<td></td>
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</tr>
<tr>
<td>Session 5</td>
<td>Feb 5-11</td>
<td>Review</td>
<td>TEST 1: Sat-Mon, Feb 9-11</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[Get your HW done for full credit]</td>
</tr>
<tr>
<td>Session 6</td>
<td>Feb 12-18</td>
<td>Quadratic Equations, Functions, and Models</td>
<td>Quiz 5: Sun-Mon, Feb 17-18</td>
</tr>
<tr>
<td></td>
<td>3.2</td>
<td>Analyzing Graphs of Quadratic Equation</td>
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<td></td>
<td>3.3</td>
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</tr>
<tr>
<td>Session 7</td>
<td>Feb 19-25</td>
<td>Polynomial Functions and Models</td>
<td>Quiz 6: Sun-Mon, Feb 24-25</td>
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<tr>
<td></td>
<td>4.1</td>
<td>Graphing Polynomial Functions</td>
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<td>4.2</td>
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<tr>
<td>Session 8</td>
<td>Feb 26-Mar 4</td>
<td>Polynomial Division: Factor Theorem</td>
<td>Quiz 7: Sun-Mon, Mar 3-4</td>
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<td>4.3</td>
<td>Rational Functions</td>
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<td>4.5</td>
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<tr>
<td>Session 9</td>
<td>Mar 5-11 – NOTE DATE!!</td>
<td>Review</td>
<td>TEST 2: Sat-Mon, Mar 9-11</td>
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<td></td>
<td>[Get your HW done for full credit]</td>
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<td>Mar 10-15 Spring Break!</td>
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<tr>
<td>Session 10</td>
<td>Mar 18-25</td>
<td>★Mar 21 Withdraw w/ auto W</td>
<td>Quiz 8: Sun-Mon, Mar 24-25</td>
</tr>
<tr>
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<td>5.1</td>
<td>Inverse Functions</td>
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<td></td>
<td>5.2</td>
<td>Exponential Functions &amp; Graphs</td>
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</tr>
<tr>
<td>Session 11</td>
<td>Mar 26-Apr 1</td>
<td>Logarithmic Functions and Graphs</td>
<td>Quiz 9: Sun-Mon, Mar 31-Apr 1</td>
</tr>
<tr>
<td></td>
<td>5.3</td>
<td>Properties of Logarithmic Functions</td>
<td></td>
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<td></td>
<td>5.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Session 12</td>
<td>Apr 2-8</td>
<td>Solving Exponential and Logarithmic Functions</td>
<td>Quiz 10: Sun-Mon, Apr 7-8</td>
</tr>
<tr>
<td></td>
<td>5.5</td>
<td>Application of Models: Growth and Decay</td>
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<td>5.6</td>
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<tr>
<td>Session 13</td>
<td>Apr 9-15</td>
<td>Systems of Equations</td>
<td>Quiz 11: Sun-Mon, Apr 14-15</td>
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<tr>
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<td>6.1</td>
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<tr>
<td>Session 14</td>
<td>Apr 16-22</td>
<td>Review</td>
<td>TEST 3: Sat-Mon, Apr 20-22</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[Get your HW done for full credit]</td>
</tr>
<tr>
<td>Session 15</td>
<td>Apr 23-25</td>
<td>Review Final Exam – Elluminate Apr 27 @ 9:15</td>
<td>Get your questions answered!</td>
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<tr>
<td></td>
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<td></td>
<td>*Extra Review/Elluminate??? TBA</td>
</tr>
</tbody>
</table>

Comprehensive Final Exam: at distant proctored locations on Thurs Apr 25 or Fri Apr 28 at UWF (Bldg/Rm TBA) on Saturday Apr 27 (9:15-12:00)
# HOMEWORK ASSIGNMENTS

**Chapter 1: Graphs, Functions, and Models**

Section 1.2  
**Functions and Graphs**  
5, 15, 21, 27, 37, 41, 43, 47, 49, 53, 55, 57, 63, 65.

Section 1.3  
**Linear Function, Slope, and Applications**  
7, 9, 11, 17, 19, 31, 33, 35, 37, 41, 43, 49, 51, 53, 55.

Section 1.4  
**Equation of Lines and Modeling**  
1, 5, 7, 9, 15, 17, 19, 23, 29, 31, 35, 37, 39, 43, 47, 49, 61, 63.

**Deadline Feb 11**

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**Chapter 2: More on Functions**

Section 2.1  
**Increasing, Decreasing, and Piecewise Functions; Applications**  
1, 5, 13, 15, 23, 25, 27, 35, 37, 39, 41, 43, 49

Section 2.2  
**The Algebra of Functions**  
1, 3, 5, 7, 11, 13, 15, 17, 19, 23, 29, 47, 57, 61, 67

Section 2.3  
**Composition of Functions**  
1, 5, 9, 13, 17, 19, 21, 23, 27, 31, 39, 41

Section 2.4  
**Symmetry and Transformations**  
1, 3, 5, 9, 11, 13, 15, 21, 33, 35, 37, 39, 41, 45, 49, 51, 53, 61, 63, 67, 69, 83, 97, 99

**Deadline Feb 11**
### Chapter 3: Quadratic Functions and Equations

Section 3.2
*Quadratic Equations, Functions, Zeros, and Models*
1, 3, 5, 9, 11, 17, 19, 23, 27, 29, 35, 37, 41, 49, 57, 59, 63, 69, 79, 85

Section 3.3
*Analyzing graphs of Quadratic Equations*
1, 3, 9, 11, 15, 17, 23, 31, 33, 35, 41, 43

**Deadline Mar 11**

### Chapter 4: Polynomial functions and rational functions

Section 4.1
*Polynomial Functions and Models*
1, 3, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 33, 35, 41

Section 4.2
*Graphing Polynomial functions*
1, 3, 5, 7, 9, 15, 17, 19, 27, 37

Section 4.3
*Polynomial division: The Remainder Theorem and the Factor Theorem*
1, 3, 7, 9, 11, 17, 31, 39, 41, 45, 49, 51

Section 4.5
*Rational functions*
1, 3, 5, 7, 11, 13, 17, 19, 21, 23, 25, 37, 41, 43, 49, 59

**Deadline Mar 11**

### Chapter 5: Exponential Functions and Logarithmic Function

Section 5.1
*Inverse Functions*
5, 9, 11, 13, 17, 23, 25, 29, 47, 51, 57, 59, 77, 79, 81

Section 5.2
*Exponential Functions and Graphs*
5, 7, 9, 27, 29, 31, 37, 49, 51, 63, 67
Section 5.3
Logarithmic Function and Graphs
3, 5, 11, 13, 17, 19, 23, 25, 33, 37, 41, 47, 49, 53, 75, 79

Section 5.4
Properties of Logarithmic Functions
3, 7, 13, 15, 19, 23, 25, 31, 37, 39, 41, 43, 47, 53, 55, 61

Section 5.5
Solving Exponential Equations and Logarithmic Equations
3, 9, 15, 19, 25, 37, 39, 41, 43, 47, 51, 59, 61, 69, 77, 75

Section 5.6
Applications and Models: Growth and Decay; Compound Interest
1, 7, 9, 13, 15

Deadline Apr 22

Chapter 6: Systems of Equations

Section 6.1
System of Equations in two variables
1, 3, 7, 11, 17, 21, 23, 27

Deadline Apr 22