Collin College Mathematics Department  
2014 Spring Faculty Instructor’s Syllabus

<table>
<thead>
<tr>
<th><strong>Professor’s Website:</strong></th>
<th><a href="http://iws.collin.edu/tmobley">http://iws.collin.edu/tmobley</a></th>
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</thead>
<tbody>
<tr>
<td><strong>Professor’s Name:</strong></td>
<td>Tom Mobley</td>
</tr>
<tr>
<td><strong>Office Loc:</strong></td>
<td>J-136</td>
</tr>
<tr>
<td><strong>Phone:</strong></td>
<td>(972) 881-5135</td>
</tr>
<tr>
<td><strong>Campus:</strong></td>
<td>SPRING CREEK, PLANO (SCC)</td>
</tr>
<tr>
<td><strong>Email:</strong></td>
<td><a href="mailto:tmobley@collin.edu">tmobley@collin.edu</a></td>
</tr>
<tr>
<td><strong>Classroom:</strong></td>
<td>J-213</td>
</tr>
<tr>
<td><strong>Fax:</strong></td>
<td>(972) 881-5619</td>
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<tr>
<td><strong>Mailbox Loc:</strong></td>
<td>F-135</td>
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<tr>
<td><strong>Course:</strong></td>
<td>Math-1314</td>
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<tr>
<td><strong>Sec:</strong></td>
<td>S11</td>
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<tr>
<td><strong>CRN:</strong></td>
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<tr>
<td><strong>Class Meeting Times:</strong></td>
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</tr>
<tr>
<td><strong>Office Hours:</strong></td>
<td>MWF 12:00pm - 1:00pm, TR 10:00am - 11:30am, or by appointment</td>
</tr>
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<td><strong>Semester:</strong></td>
<td>16-Week</td>
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**Course Title:** College Algebra  

**Course Description:** In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Lab required.

**Textbook and Required Material:**

- Connect Math hosted by ALEKS is required.

**Prerequisite(s):** TSI assessment  

**Corequisite(s):** NONE

**Census Date:** February 3, 2014  
**Withdrawal Date:** March 21, 2014  
**Final Exam Date:** May 15, 2014

**Required Graphing Calculator:** TI-83, TI-84, or non-CAS TI-Nspire

**College Syllabus Link:** http://www.collin.edu/math/math_syllabi.htm

**Required Supplies:** TI Calculator and writing instrument

**Course Requirements:**

- Completion of exams, homework assignments, labs and attending classes.

**Student Learning Outcomes:** (Upon completion of this course, the students should be able to do the following)

1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses. (Critical Thinking and Communication Skills)

2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations. (Empirical/Quantitative Skills, Critical Thinking and Communication Skills)

3. Apply graphing techniques.

4. Evaluate all roots of higher degree polynomial and rational functions. (Empirical/Quantitative Skills)

Method of Evaluation: (Grade will be determined by averaging the individual components using the scale shown below)

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Description</th>
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<tbody>
<tr>
<td>LABS</td>
<td>10%</td>
<td>(paper)</td>
</tr>
<tr>
<td>HOMEWORK</td>
<td>10%</td>
<td>(online)</td>
</tr>
<tr>
<td>EXAM 1</td>
<td>15%</td>
<td>covering chapter 2</td>
</tr>
<tr>
<td>EXAM 2</td>
<td>15%</td>
<td>covering chapter 3</td>
</tr>
<tr>
<td>EXAM 3</td>
<td>15%</td>
<td>covering chapter 4</td>
</tr>
<tr>
<td>EXAM 4</td>
<td>15%</td>
<td>covering chaps 6,8</td>
</tr>
<tr>
<td>FINAL</td>
<td>20%</td>
<td>comprehensive</td>
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</table>

Grading Scale:  

- A = 90 – 100  
- B = 80 – 90  
- C = 70 – 80  
- D = 60 – 70  
- F = 0 – 60

Project Description and Policy:  

No projects for this class section.

Attendance Policy:  

Attendance is expected of all students. If a student is unable to attend, it is his/her responsibility to contact a study partner to obtain assignments. Please see page 1 of this syllabus and confer with the schedule of classes for the last day to withdraw.

Homework Policy:  

The homework problems on Connect Math are expected to be completed after each corresponding lecture and before the next class period. The Connect Math assignments are to be completed online for a grade.

Lab Policy:  

Labs are to be handed in each week at the beginning of the class period of the due date. These problems are an extention of the homework assignments. No lab may be turned in late nor made up for credit; however, the lowest score will be dropped.

Quiz Policy:  

No quizzes for this class section.

Exam Policy:  

All exams 1-4 will be given in the classroom during normal lecture hours - observe the weekly schedule on the last page of this syllabus.

Make-up Policy:  

A student may request a make-up test to be administered in the campus testing center for documented medical and/or family emergencies only.
Resource Material:
Any student enrolled in this class has access to the Math Lab located in D-203, 972-881-5921. The Lab is staffed with faculty and tutors; in addition, it offers free tutorial help, graphing calculators, and computer assistance. Check with LRC for video recordings. Collin students may arrange for tutoring with the ACCESS office (D-140) - call 972-881-5898 for scheduling and availability.

Withdrawal Regulation:
Under section 51.907 of the Texas Education Code, students may not withdraw from more than six courses including any course a transfer student has withdrawn from at another Texas institute of higher education. For exemptions, visit the Collin webpage: http://www.collin.edu/gettingstarted/register/withdrawal.html. Please consult your instructor before you withdraw and check the current Collin Registration Guide for the last official day to withdraw.

Course Withdrawal:
To withdraw from this class, you need to do the following:
1. Attain a Drop/Add form from the office of Admission and Records, 972-881-5710,
2. Turn in the completed Drop/Add form to the office of Admission and Records on or prior the withdrawal deadline,
3. Make sure your course withdrawal satisfies the college withdrawal policy,
4. You may receive an F if you do not finish this class and do not withdraw on or prior to the withdrawal deadline.

Religious Holy Days:
In accordance with section 51.911 of the Texas Education Code, the college will allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within a reasonable time. Please refer to the current Collin Student Handbook.

Evaluation of Instructions:
Collin College seeks to improve the learning experience of all students. To assist in evaluating courses, students will be requested to complete an evaluation-of-instruction form near the end of each fall and spring semester.

ADA Statement:
It is the policy of Collin County Community College to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) in a timely manner to arrange for appropriate accommodations.

Student Code of Conduct:
It is a violation of the Student Code of Conduct (Section 7-2.4, Other Offenses, item S) to engage in the use of telecommunication or media devices during any class, Collin College lab or other learning environment; here, this includes social networking activities such as texting, talking on the phone, web-browsing from laptops or smart phones, or utilizing any other related electronic devices.

Academic Ethics:
Every member of the Collin College community is expected to maintain the highest standards of academic integrity. Collin College may initiate disciplinary proceedings against a student accused of scholastic dishonesty. Scholastic dishonesty includes, but is not limited to, statements, acts, or omissions related to applications for enrollment or the award of a degree, and/or the submission of one’s own work material that is not one’s own. Scholastic dishonesty may involve, but is not limited to, one or more of the following acts: cheating, plagiarism, collusion, use of annotated texts or teacher’s editions, use of information about exams posted on the Internet or electronic medium, and/or falsifying academic records. While specific examples are listed below, this is not an exhaustive list and scholastic dishonesty may encompass other conduct, including any conduct through electronic or computerized means.

Plagiarism is the use of an author’s words or ideas as if they were his or her own without giving credit to the source, including, but not limited to, failure to acknowledge a direct quotation.

Cheating is the willful giving or receiving of information in an unauthorized manner during an examination; collaborating with another student during an examination without authority; using, buying, selling, soliciting, stealing, or otherwise obtaining course assignments and/or examination questions in advance, copying computer or Internet files, using someone else’s work for assignments as if it were one’s own; or any other dishonest means of attempting to fulfill the requirements of a course.

Collusion is intentionally or unintentionally aiding or attempting to aid another in an act of scholastic dishonesty, including but not limited to, failing to secure academic work; providing a paper or project to another student; providing an inappropriate level of assistance; communicating answers to a classmate about an examination or any other course assignment; removing tests or answer sheets from a test site, and allowing a classmate to copy answers. See the Collin Student Handbook for additional information.

Disclaimer:
The instructor reserves the right to make changes to this syllabus during the semester in writing and during class hours.
# Course Calendar for Math-1314.S11 (subject to change)

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<thead>
<tr>
<th>Week 1</th>
<th>01/21 - 01/26</th>
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<tbody>
<tr>
<td></td>
<td>Introduction</td>
</tr>
<tr>
<td></td>
<td>Section 1.6: Radical Equations and Functions</td>
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<td>Section 2.3: Functions and Relations</td>
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<th>Week 2</th>
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<tr>
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<td>Section 2.6: Transformations of Graphs</td>
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<td>Section 2.7: Analyzing Graphs of Functions and Piecewise-Defined Functions</td>
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<tr>
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<td>Section 2.8: Algebra of Functions and Function Composition</td>
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<td>Section 3.2: Introduction to Polynomial Functions</td>
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<td>Section 3.3: Division of Polynomials and the Remainder and Factor Theorems</td>
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<tbody>
<tr>
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<td>Section 3.4: Zeros of Polynomials</td>
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<td>Section 6.1: Solving Systems of Linear Equations Using Matrices</td>
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<td>Section 8.1: Sequences and Series</td>
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