Instructor: Janet Samuels  
Office: 27-111/ Bradenton Campus  
Office Hours: _______________________

Phone: 941-752-5565  
e-mail: samuelj@scf.edu

Math Office Phone: 941-752-5224

Academic Resource Center Information: http://scf.edu/StudentServices/pages/144.asp

On-Campus Meetings:  
Friday Orientation Friday 1/11 8:00 - 9:00pm, Room 105  
Midterm Friday 3/8 7:00 - 9:00pm, Room 105  
Final Exam 7:00 - 8:00pm, Room 105

GORDON RULE  
This course meets the Florida State Board of Education Rule Number 6A-10.30. For the purpose of this rule, a grade of “C” or better shall be considered successful completion.

COURSE DESCRIPTION  
This course meets Area II requirements for both the A.A. and the A.S. general education requirements. Topics include the study of trigonometric functions and applications, analytic trigonometry, vectors, trigonometric form of complex numbers, parametric equations, and polar coordinates and equations. This course is intended for students whose major requires the calculus sequence. Use of a graphing calculator is integrated throughout this course. Additional special fees are required. Students already with credit for MAC 2147 or 2142 cannot subsequently get credit for MAC 1114, or vice versa. Course performance standards are available online at http://www.scf.edu/content/Docs/CouPerSta/MAC1114.doc and in the mathematics labs.

PREREQUISITES  
MAC 1105 or equivalent. Student Enrollment in any mathematics course is contingent upon approval of the mathematics department. This means that students who have been misplaced may have their schedule changed.

REQUIRED COURSE MATERIALS  
Textbook  
Trigonometry 7th Edition, by Charles McKeague  
An electronic version of the textbook is available with the WebAssign software that is required for the course. Students are not required to buy a hardcover copy of the textbook.

Calculator  
A graphing calculator is required; a TI-83, TI-83 Plus or TI-84 Plus is strongly recommended. Calculators can be used during exams with the exception of those calculators with symbolic manipulation capabilities (e.g., TI-89, TI-92). Cell phones cannot be used as calculators during exams.

Software  
Instructional software with access to homework problems and chapter quizzes will be used in this course. Your online section requires all students to use the instructional software called WebAssign. The software must be purchased by the end of the first week of classes. The WebAssign access code is available for purchase either at the college bookstore or online at www.webassign.net. The class key for this course is ____________. Do not open any packages unless you are certain you have the correct materials. Open packages will not receive full refund at the bookstore.

ANGEL ACCESS  
You are already enrolled in the ANGEL account for this course. You can access ANGEL through SCF Connect using your regular User ID and Password. This syllabus will be posted in ANGEL, and detailed instructions for enrolling in WebAssign will be posted in ANGEL under the “Lessons” tab. Students should not contact the instructor through ANGEL, instead send e-mails to samuelj@scf.edu.
This is an online course requiring submission of online assignments and projects. It is NOT self-paced. You will be learning through the use of a textbook, course notes, and WebAssign software. You will work outside of a classroom to complete the course material as outlined in the attached schedule and come to the campus (or a pre-approved testing center) to take a Midterm and a Final Exam. An instructor will interact with the students throughout the course and assess all assignments.

You must use your SCF e-mail account and check your e-mail regularly. Your instructor will send you regular e-mails with pertinent course information. It is your responsibility to make sure you receive these e-mails. If you do not appear to be receiving e-mails, contact your instructor immediately. All e-mail replies must be sent from your SCF e-mail address. They must be written using correct English structure, grammar and punctuation and be signed with your first and last name. Additionally, the course name, MAC 1114-Online, should be included on the subject line of the e-mail. Please do not e-mail your instructor through ANGEL. Students can typically expect to receive a reply within 48 hours, M-F.

For questions on homework or general course concerns, please post in the General Class Discussion board on WebAssign.

To be a student in this course, you must complete all parts of the assignment by Thursday, January 17th, 11:59pm. To complete this assignment, students must:

1. Enroll in WebAssign and complete the Syllabus Quiz.
   - Enroll in WebAssign.
   - Download any required plug-ins for WebAssign.
   - Click on Notifications in the top right, and check all options under “Notify me immediately when...”
   - You will find the Syllabus Quiz under My Assignments on the left hand side. You are allowed two submissions with no time limit to complete the quiz.

2. Write an “Introduction Post”.
   - On the left hand side in WebAssign, click on “Class Introductions” under Class Forums.
   - Read the instructions and the Example Post, then create your own post in the “Class Introductions” forum.

Students who fail to complete all parts of the Required Initial Assignment by the due date will be marked as a no-show and dropped from the course.

In accordance with US Department of Education guidance regarding class participation, The State College of Florida requires that all students complete an orientation and submit their required Week 1 assignments within each course(s) during the first 8 calendar days of class. The first calendar day of class is the official start date of the course as posted on the course syllabus. Assignments submitted prior to the official start date will not count toward your participation. Financial Aid cannot be released without class participation as defined above. Students who have already taken, and successfully completed, at least one or more class(es) with The State College of Florida will be dropped ONLY from any class(es) in which they are not participating. If you have any questions about your assignments, or you are unable to complete your assignments, please contact your instructor at samuelj@scf.edu.
**Lesson Procedure**

Weekly assignments will typically be due each Friday at 5:00 am, unless otherwise specified. Every week, sections are assigned according to the Syllabus calendar. For each assigned section:

1. Read the section in the *Textbook*.
2. Watch the *Lecture Videos* for the section in *WebAssign*.
3. Go through the section exercises in the *handouts in WebAssign*, under Resources.
4. Complete the *Homework in WebAssign*. These will count toward your grade.
5. Complete weekly *test and/or project*.

**Homework**

Doing homework is a critical part of learning mathematics. Assignments are provided through the WebAssign software. The online homework will have an impact on your course grade. Assignments will typically be due each Friday at 5:00 am, unless otherwise noted. Assignments with due dates that are past can still be submitted up to **5 days past the due date with a 25% penalty** on late problems. Online homework is required and counts as 75 points toward your course grade.

There will be a WebAssign homework assignment due for every textbook section covered.

**Online Tests**

Four online 2-hour tests, each worth 50 points toward your course grade, will be assigned through the WebAssign software. You will be allowed two submissions on each test to correct for any technical issues. To prepare for these tests, students can (1) complete the reviews in WebAssign and/or (2) redo previously completed Homework assignments for practice in WebAssign without penalty to their grades.

- From the time that you click on the Test, you will have only two hours to submit your completed answers. Do not click on the quiz or test unless you are prepared to take it at that time.
- Unlike your homework you should **answer all questions** and then click “Submit”. After that you will be given the chance to submit a second time to allow for any correction that might need to be made because of WebAssign formatting issues.

**Projects**

The projects will be available under Resources in WebAssign. The due dates for the projects are listed in the syllabus calendar.

**On Campus Exams**

There will be a required Midterm exam and a required comprehensive Final exam. The Midterm exam will be on March 8th, 7:00 to 9:00 pm, and the Final exam will be on April 26th, 7:00 to 9:00 pm. All exams will be in Building 27 room 105 on the Bradenton campus.

**What you must bring:** an approved graphing calculator, pencils, and your student ID card or driver’s license. Students **cannot** share calculators or use a cell phone as a calculator during exams!

**For students with time/location conflicts:** If you are not able to attend an on-site test session, you must make an appointment with the SCF Testing Center or find a proctored testing center in your area. Contact your instructor with the necessary information for sending the test to the testing center at least one week prior to the exam. Please be aware that most independent testing centers will charge for proctoring services. Regardless of location, you must still take the exam on the same date as the rest of the class.

**No Make-up Exams Will Be Given** for any reason. Any missed online or on campus test will result in a zero. A student who does not sit for the Midterm exam will be withdrawn from the course.
GRADING

Your grade in the course is determined by the total number of points earned during the semester. Homework and quizzes will be submitted through WebAssign, and traditional paper-and-pencil exams will be taken in person at the Bradenton Campus.

You must earn a 60% or higher on the final exam to pass the course.

<table>
<thead>
<tr>
<th>Points</th>
<th>Grading Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>90-100% = A</td>
</tr>
<tr>
<td>125</td>
<td>80-89% = B</td>
</tr>
<tr>
<td>75</td>
<td>70-79% = C</td>
</tr>
<tr>
<td>300</td>
<td>60-69% = D</td>
</tr>
<tr>
<td>300</td>
<td>0-59% = F</td>
</tr>
</tbody>
</table>

Total 900 points

TECHNICAL SUPPORT

Help for WebAssign is available at [https://www.webassign.net/user_support/student/](https://www.webassign.net/user_support/student/).

For fast assistance, choose chat to "talk" to a technical support person. Students can also call 1-800-955-8275 for assistance from WebAssign or ask their instructor or inquire at the Academic resource center.

ATTENDANCE

Since this is an online course, attendance will be measured by completion of WebAssign assignments as well as sitting for tests.

- During the first week of class, student attendance will be measured by completion of all parts of the Required Initial Assignment (described above).
- After the first week, students must display weekly activity in WebAssign (i.e. Complete homework problems every week) and sit for all tests. Students who are inactive for two weeks are subject to withdrawal from the course.

WITHDRAWAL

In accordance with the State College of Florida policy, as stated in the college catalog, students may withdraw from any course, or all courses, without academic penalty, by the withdrawal deadline listed in the State College of Florida academic calendar. This semester, the withdrawal date is March 21, 2012. Students should take responsibility to initiate the withdrawal procedure but are strongly encouraged to talk with their instructors before withdrawing from the course. In addition, students should note that faculty may also withdraw students for violating policies, procedures or conditions of the class as outlined in individual class syllabi or if they have been inactive in the course for two weeks. Such action could affect financial aid status.

MISCONDUCT

Students are required to adhere to the Student Code of Conduct as outlined in official State College of Florida publications including the Catalog and the Student Handbook and Planner. Violations of any Student Codes of Conduct may result in a disciplinary sanction. These sanctions can be found on pages 110-111 in the Student Handbook and Planner.

ACCOMODATION SERVICES

State College of Florida, Manatee-Sarasota, in accordance with the Americans with Disabilities Act will provide classroom and academic accommodations to students with documented disabilities. If you need to request an accommodation in this class due to a disability, or you suspect that your academic performance is affected by a disability, please see me or contact the Disability Resource Center (DRC). The DRC is located in 300-326 on the Venice campus and in the Student Services Center (01-219) on the Bradenton campus. The phone number is 941-408-1448 Ext # 61448 (TTY 941-480-3420) on the Venice campus and 941-752-5295 Ext # 65295 (TTY 941-751-8179) on the Bradenton campus.
<table>
<thead>
<tr>
<th>Week</th>
<th>Sections</th>
<th>Topics Covered</th>
<th>WebAssign Due Dates</th>
<th>Optional Textbook Exercises</th>
</tr>
</thead>
</table>
| 1    | M 1/7 – F 1/11 | **ORIENTATION**  
Initial Assignment | F 1/11 | BC 27-105, 8:00-9:00 PM  
R 1/17 |  
F 1/18 |  
F 1/18 |
| 2    | M 1/14 – F 1/18 | **Golden Ratio Discussion**  
Definition I: Trigonometric Functions  
Introduction to Identities  
More on Identities | M 1/14 |  
F 1/18 |  
F 1/18 |  
F 1/18 |  
1.1 (p.31): 1 – 75 (odd)  
1.4 (p.39): 1 – 61 (odd)  
1.5 (p.45): 1 – 89 (odd), 91 |
| 3    | M 1/21 – F 1/25  
**M 1/21 MLK Holiday** | **Definition II: Right Triangle Trigonometry**  
Trig Functions of an Acute Angle  
Solving Right Triangles | M 1/25  
F 1/25  
F 1/25 |  
2.1 (p.61): 1 – 69 (odd)  
2.2 (p.70): 1 – 85 (even), 87  
2.3 (p.79): 1 – 67 (odd) |
| 4    | M 1/28 – F 2/1  
M 1/28 – F 2/1 | **Right Angle Applications**  
Vectors: A Geometric Approach | F 2/2 |  
F 2/2 |  
2.4 (p.91): 1 – 43 (odd)  
2.5 (p.105): 1 – 49 (odd)  
Available on WebAssign Friday only. |
| 5    | M 2/4 – F 2/8 | **Reference Angle**  
Radians and Degrees  
Definition III: Circular Functions | F 2/8 |  
F 2/8 |  
3.1 (p.121): 1 – 83 (even)  
3.2 (p.131): 1 – 29 (odd), 31 – 95 (even)  
3.3 (p.143): 1 – 95 (even) |
| 6    | M 2/11 – F 2/15 | **Unit Circle Project**  
Arc Length and Area of a Sector  
Basic Graphs  
Amplitude, Reflection and Period | M 2/11 |  
F 2/15 |  
F 2/15 |  
F 2/15 |  
3.4 (p.152): 1 – 57 (odd)  
4.1 (p.191): 1 – 55 (odd)  
4.2 (p.202): 1 – 67 (odd) |
| 7    | M 2/18 – F 2/22 | **Vertical and Horizontal Translations**  
The Other Trigonometric Functions | F 2/22 |  
F 2/22 |  
4.3 (p.216): 1 – 61 (odd)  
4.4 (p.227): 1 – 27, 43 – 47 (odd) |
| 8    | M 2/25 - F 3/1  
**F 3/1 Faculty Dev**  
**Day** | **Finding an Equation from its Graph**  
Inverse Trigonometric Functions  
**Proofing Identities** | F 3/1 |  
F 3/1 |  
4.5 (p.237): 1 – 35 (odd)  
4.7 (p.260): 1 – 93 (even)  
5.1 (p.278): 1 – 83 (odd)  
Available on WebAssign Friday only. |
| 9    | M 3/4 – F 3/8 | **Sum and Difference Formulas**  
Double-Angle Formulas  
**Chapters 1 to 4** | F 3/8 |  
F 3/8 |  
5.2 (p.288): 1 – 71 (odd)  
5.3 (p.296): 1 – 67 (odd)  
BC 27-105, 7:00 - 9:00 PM |
| 10   | M 3/11 - F 3/15 | **Spring Break** | | |
| 11   | M 3/18 – F 3/22  
**R 3/21 – last day to withdraw** | **Biorhythm Project**  
Half-Angle Formulas  
Additional Identities  
Solving Trigonometric Equations | M 3/18 |  
F 3/22 |  
F 3/22 |  
5.4 (p.303): 1 – 55 (odd)  
5.5 (p.311): 1 – 47 (odd)  
6.1 (p.325): 1 – 51 (odd), 63 – 75 (even) |
Trig Equations with Multiple Angles  
Parametric Equations  
**Chapters 5 & 6** | F 3/29 |  
F 3/29 |  
F 3/29 |  
6.2 (p.332): 1 – 61 (odd)  
6.3 (p.339): 1 – 59 (odd)  
6.4 (p.351): 1 – 39 (odd)  
Available on WebAssign Friday only. |
| 13   | M 4/1 – F 4/5 | **Parametric Equations Project**  
The Laws of Sines  
The Laws of Cosines  
The Ambiguous Case | M 4/1 |  
F 4/5 |  
F 4/5 |  
F 4/5 |  
7.1 (p.368): 1 – 41 (odd)  
7.2 (p.377): 1 – 49 (odd)  
7.3 (p.389): 1 – 33 (odd) |
| 14   | M 4/8– F 4/12 | **The Area of a Triangle**  
Vectors: An Algebraic Approach  
Complex Numbers  
Trig Form for Complex Numbers | F 4/12 |  
F 4/12 |  
F 4/12 |  
F 4/12 |  
7.4 (p.396): 1 – 31 (odd)  
7.5 (p.404): 1 – 57 (odd)  
8.1 (p.425): 1 – 93 (even)  
8.2 (p.432): 1 – 71 (odd) |
| 15   | M 4/15– F 4/19 | **Latitude & Departure Project**  
Products and Quotients in Trig Form  
Roots of a Complex Number  
Polar Coordinates  
Equations in Polar Coordinates  
**Chapters 7 & 8** | M 4/15 |  
F 4/19 |  
F 4/19 |  
F 4/19 |  
F 4/19 |  
8.3 (p.439): 1 – 63 (odd)  
8.4 (p.447): 1 – 39 (odd)  
8.5 (p.457): 1 – 71 (odd)  
8.6 (p.467): 1 – 67 (odd)  
Available on WebAssign Friday only. |
| 16   | M 4/22 – F 4/26 | **Final Exam**  
Friday April 26, 7:00-9:00 PM  
BC 27-105 | | Final Exam Review & Answer Key:  
http://scf.edu/content/PDF/math/fr1033BC.pdf  
http://scf.edu/content/PDF/math/fr1033BCA.pdf |

*Friday, 3/1, Faculty Dev. Day – no day classes or academic support labs. Classes scheduled 4 pm and later will meet as usual.  
**Thursday, 3/21, last day to withdraw without academic penalty (no refund)
Frequently Asked Questions

1. **Will there be an orientation during the first week?**
   There will be a mandatory orientation session on Friday, January 11th, on the Bradenton Campus, Bldg. 27 Room 105, from 8:00 pm to 9:00 pm.

2. **How do I get started in the class?**
   Read the syllabus and e-mail your instructor at samuelj@scf.edu with any questions. Use the “Enrolling in Enhanced WebAssign” instructions posted in ANGEL under Lessons on the first day of class to sign up for Enhanced WebAssign (or EWA). Complete the Syllabus Quiz and the “Class Introductions” forum on WebAssign. These activities must be completed by January 17th. From then on, follow the Lesson Procedures (outlined above) each week and see the Syllabus calendar for due dates.

3. **How is an online class different from a face-to-face class?**
   Successful online students must be much more organized and self-disciplined than traditional students. Students should expect to spend a minimum of 3 hours per week reading the textbook lesson and viewing lecture videos, and a minimum of another 3 hours per week completing practice problems in the Handouts under Resources as well as Homework and Quizzes in WebAssign.

4. **What is the purpose of the Course Notes?**
   The Course Notes give you the opportunity to practice pencil-and-paper problems more similar to the tests. Answer Keys for each section in the Course Notes will be posted in WebAssign under Resources (bottom left-hand corner). In addition, answer keys will be posted for all Test Reviews in the same location.

5. **How can I prepare for quizzes and tests?**
   (1) Complete the Test Reviews, and check the solutions posted in WebAssign. (2) You can redo past homework assignments in EWA for extra practice without affecting your grade.

6. **This was supposed to be an online class and I can’t take the exams on campus! What should I do?**
   You can take the exams at a proctored testing center with a more convenient location for you. It is your responsibility to find the testing center, pay any applicable fees, and contact your instructor immediately (no less than one week prior to the exam) with information on sending test materials to the test center. Students must take the exam on the same day as the rest of the class but can take the exam earlier in the day due to a time conflict. If students have just a time conflict but live near campus, it may be possible to schedule a test free of charge at an SCF Testing Center.

7. **How can I get help with a tricky Homework problem?**
   You can post the problem on the General Class Discussion forum or send an e-mail to samuelj@scf.edu with your question. For extra tricky problems that many students have questions on, a detailed solution can be e-mailed to the class, so remember to check your SCF e-mail regularly.

8. **I couldn’t submit my Homework assignment by the due date because [insert reason here]. Can I turn it in late?**
   Yes – for up to five days past the due date, you can click “Extension Requests” in an assignment to turn it in late. For problems completed after the due date, a 25% penalty will be applied. After a five days past the due date, homework assignments can no longer be submitted late.

9. **Can I submit online Tests late?**
   Nope! Unless you have a documented and valid excuse, tests must be submitted on the due date. Unlike homework, tests are timed (2 hours) and students must submit all answers at once, rather than question by question. Students are allowed 2 submissions per test to account for the unlikely possibility of technical glitches. It’s a good idea to work out all test questions with their answers on paper in case of a technical issue occurring.

10. **Since this is an online class and we won’t interact much… who are you?**
    Glad you asked! My name is Janet Samuels, and I have lived in the Tampa Bay area for 14 years. I have a Masters degree in Mathematics from USF and have worked at SCF the past 5 years. I live in Palmetto with my husband, three children, one cat, three dogs and six chickens. I’d love to get to know my students better, so feel free to send me a “hello” e-mail at samuelj@scf.edu to tell me a little about yourself. Better yet, if you get a chance stop by my office in Bradenton, 27-111. My office hours are printed at the top of the syllabus. Best of luck this semester!