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. Mathematics Student Learning Outcomes are available at Mathematics Student Learning Outcomes and in the math labs.

PREREQUISITES
MAC 1105 with a grade of "C" or better. 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.

TEXT
Trigonometry, 8th Edition, by McKeague & Turner

MATERIALS
A graphing calculator is required; the TI-83 or TI-83 Plus or TI-84 Plus is strongly recommended and may be used during tests with the exception of those calculators with symbolic manipulation capabilities (e.g., TI-89, TI-92).

ADDITIONAL MATERIALS
Your section may require that all students have access to Web Assign (WA). If your instructor requires access to WA, it must be acquired by the end of the first week of classes. Student Solutions manual is available in the bookstore (optional). Tutoring is available in the Academic Resource Center (ARC).

TESTS
There will be four tests and a required comprehensive final exam. NO MAKE-UP TESTS, EXAMS, or QUIZZES WILL BE GIVEN.

GRADING
Your grade in the course is determined by the percentage of points earned during the semester. A grade of 60% or higher must be earned on the final exam in order to earn a grade of A, B, or C.

<table>
<thead>
<tr>
<th>POINTS</th>
<th>SCALE</th>
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<tbody>
<tr>
<td>4 EXAMS</td>
<td>90 - 100%</td>
</tr>
<tr>
<td>Quizzes/Participation/Projects/Homework*</td>
<td>80 - 89%</td>
</tr>
<tr>
<td>Final Exam (cumulative)</td>
<td>70 - 79%</td>
</tr>
<tr>
<td>Total</td>
<td>60 - 69%</td>
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<tr>
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<td>0 - 59%</td>
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*Your instructor will choose the composition of these points

LATE WORK
No late work may be turned in for credit unless permission given by the instructor.

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.

ATTENDANCE
All late arrivals, early departures and absences must be discussed and cleared with the instructor. More than 3 hours of absences or excessive tardiness may result in your withdrawal from the course.

NO-SHOW POLICY
Students who do not drop a course that they have never attended will be reported as a No-Show by the course instructor during the No-Show period. This drop may have financial aid implications for the student who is dropped.
| **ELECTRONICS POLICY** | Cell phone etiquette must be observed: In-class usage is restricted to emergency situations – *this includes texting*. Cell phones are *not* to be used during tests, not even as a calculator. Inform the instructor before class of any extenuating circumstances. The use of mobile devices (cell phones, beepers, tablets and other smart devices) in the classroom is determined by the faculty member’s mobile device use guidelines for that particular class. Each faculty member determines the acceptable use of mobile devices in the classroom, from requiring the device be turned off to allowing the use of mobile devices in classroom projects. Adhere to the expectations communicated by the faculty member for that course. |
| **MISCONDUCT** | Students are required to adhere to statements regarding student misconduct outlined in official State College of Florida publications including the Catalog and the Student Handbook. The minimal consequence of failure to adhere to these statements is withdrawal from the course. |
| **TECHNICAL SUPPORT INFORMATION** | For technical issues with Canvas, contact Canvas technical support by clicking the question mark icon in the lower left hand corner of the Canvas window and choosing ”Report a Problem” or ”Chat with Canvas Support.” Also, Canvas support can be contacted via phone at 941-920-2764. For technical issues with My SCF, contact SCF technical support by calling 941.752.5357 or emailing helprequest@scf.edu. For technical issues with the publisher site, contact their technical support at • MML 1.800.677.6337 • Connect 1.949.390.2095 • WebAssign 1.800.955.8275 |
| **PROHIBITING RECORDING DEVICE** | The use of recording devices during class is prohibited, except when the use of such devices is approved as an accommodation through the college Disability Resource Center. In such cases the student must provide a copy of their Memo of Accommodation and meet with the instructor to discuss how best to provide the approved accommodation. |
| **E-MAIL** | Students are required to communicate with their instructor using their official SCF email address. |
| **WITHDRAWAL** | Withdrawing from the College - Withdrawal is defined as a complete separation from State College of Florida for a particular semester. A student can withdraw from courses online but may not withdraw from the last registered course online. Students withdrawing from all courses must complete a withdrawal form, meet with a representative from Financial Aid and Academic Advising, then submit the completed form to the Office of the Registrar by the withdrawal deadline as published in the Academic Calendar, Catalog, or on the SCF website. Failure to follow this procedure may result in a grade of ”F” being assigned for each course for which the student is registered. No fee is charged for withdrawals. Financial Aid Impact: Federal financial aid Title IV policy requires colleges to calculate how much aid a student has earned if they withdraw or stop attending prior to the completion of a semester. If the withdrawal date is less than 60.1% of the semester, the student may have to return a portion of the aid received, as well as owe the State College of Florida (SCF) a portion of the tuition and fees. A student who remains enrolled beyond the 60% point, has earned all aid for the semester for which the aid was awarded. If a student unofficially withdraws (stops attending) or a student’s academic transcript reflects unsuccessful completion of all courses in a term, SCF will calculate aid based on the latter date from one of the following academic related activities: 50% completion date of the term or official documented last date of attendance/activity. Withdrawing from a course(s) - Course withdrawal is defined as withdrawal from one or more classes for a term but not complete withdrawal from the college. Failure to completely process a drop form or drop a class online may result in the student being assigned a grade of ”F”. Financial Aid Impact: |
Withdrawal from a one or more courses during the semester, without complete withdrawal from the college, may have an impact on both the amount of aid received for the semester and a student’s academic eligibility to continue receiving financial aid for future enrollment.

Withdrawal Grading -SCF encourages the student to discuss a withdrawal with the instructor, Financial Aid, and academic advisor before withdrawing from a course. If the student withdraws from the college, they are required to meet with Financial Aid and Academic Advising prior to submitting the completed Withdrawal Form to the Office of the Registrar. A student enrolled in an accelerated and/or short-term course may withdraw without academic penalty at any time prior to the withdrawal deadline specific to the course.

Late withdrawal -A student may appeal for a late withdrawal by completing a Late Withdrawal Appeal Form, accompanied by an explanation why the deadline was missed and include any documentation that would aid in the appeal review should be directed to the Academic Dean on the student’s primary campus. The Academic Dean has final authority for this appeal. If the appeal is granted, the academic grade would be changed to a ‘W’ without GPA consequences. Students may obtain a Late Withdrawal Appeal Form from the Advising Center.

Effective Fall 1997, the state mandated a student will be permitted a maximum of three attempts per course. An "attempt" is defined as registration in a class after the end of the registration period. All withdrawal policy statements apply to part-time as well as full-time degree-credit and developmental students.

Before the course withdrawal deadline (60 percent of the term) a faculty member may withdraw a student when the student has stopped attending class and has not formally withdrawn from the course by the withdrawal deadline. A faculty member can withdraw a student for excessive absences, excessive tardiness, academic misconduct, or another similar reason, as noted in the faculty member’s respective syllabi. A grade of W will be recorded. The grade is recorded on the student’s permanent academic record. Fees are applied for all courses accordingly and are counted as attempted courses.

Plagiarism is the use of ideas, facts, opinions, illustrative material, data, direct or indirect wording of another scholar and/or writer—professional or student—without giving proper credit. Expulsion, suspension, or any lesser penalty may be imposed for plagiarism.

State College of Florida, in accordance with the Americans with Disabilities Act, will provide classroom and academic accommodations to students with documented disabilities. Students are responsible for registering with the Disability Resource Center (DRC) in order to receive academic accommodations. Reasonable notice must be given to the DRC office (typically 5 working days) for accommodations to be arranged. It is the responsibility of the student to provide each instructor with a copy of the official Memo of Accommodation.

DRC Contact Information: Email: drc@scf.edu Phone: 941-752-5295 http://scf.edu/StudentServices/DisabilityResourceCenter/

State College of Florida, Manatee-Sarasota (SCF) is an equal opportunity and access institution that does not discriminate on the basis of sex, race, religion, age, national origin/ethnicity, color, marital status, disability, genetic information, sexual orientation and any other factor prohibited under applicable federal, state, and local civil rights laws, rules and regulations in any of its educational programs, services or activities, including admission and employment. Direct inquiries regarding nondiscrimination policies to: Equity Officer, 941-752-5323, PO Box 1849, Bradenton, FL 34206. http://www.scf.edu/Administration/HumanResources/DiversityEquity/equalopportunity.asp

Students who expect to be absent due to religious observances must provide their instructor with advance notification, in writing, of the purpose and anticipated length of any absence by the end of the second week of classes. At that time, the instructor and student will agree upon a reasonable time and method to make up any work or tests missed.

If a student encounters a problem in the course, they should work with the professor to resolve it. If the student needs help and the professor is unable to help or is unavailable, contact, based on your campus, Kim Ghiselin (Bradenton), Angelique Medvesky (Lakewood Ranch), or Stephanie Cook (Venice).
Week | Sections | Topics Covered | Suggested Homework Assignments
--- | --- | --- | ---
1 | M 1/6 - F 1/10 | 1.1 Angles, Degrees, and Special Triangles | p.11 # 9-69 odd
1.2 The Rectangular Coordinate System | p.25 # 35-49, 57-93 odd
2 | M 1/13 – F 1/17 | 1.3 Definition I: Trigonometric Functions | p.35 # 5-77 odd
1.4 Introduction to Identities | p.44 # 13-61 odd
1.5 More on Identities | p.51 # 13-29, 35-39, 51-55, 61-91 odd
3 | M 1/20– F 1/24 | 2.1 Definition II: Right Triangle | p.51 # 13-29, 35-39, 51-55, 61-91 odd
1/20 – MLK | 2.2 Trigonometry | p.68 # 7-71 odd
Holiday | Trig Functions of an Acute Angle | p.78 # 5-49 eoo, 55-83 odd
4 | M 1/27 – F 1/31 | 2.3 Solving Right Triangles | p.87 # 9-57 odd, 59, 63, 65, 67
2.4 Right Angle Applications | p.100 # 5-45 odd
2.5 Vectors: A Geometric Approach | p.116 # 9-49 odd
5 | M 2/3 – F 2/7 | Test #1 | Chapters 1 & 2
3.1 Reference Angle | p.133 # 5-81 odd
3.2 Radians and Degrees | p.142 # 5-81 odd, 93, 95, 97
6 | M 2/10 – F 2/14 | 3.3 Definition III: Circular Functions | p.156 # 7-31 odd, 49-105 eoo
2/14- Faculty | 3.4 Arc Length and Area of a Sector | p.166 # 5-61 odd
Development Day | 4.1 Basic Graphs | p.206 # 7-55 odd
No Day Credit Classes or Labs
7 | M 2/17 – F 2/21 | 4.2 Amplitude, Reflection and Period | p.218 # 9-67 odd
4.3 Vertical and Horizontal Translations | p.232 # 5-61 odd, 67, 69
4.4 The Other Trigonometric Functions | p.244 # 5-39, 51-77 odd
8 | M 2/24 – F 2/28 | 4.5 Finding an Equation from its Graph | p.256 # 9-39 odd
4.7 Inverse Trigonometric Functions | p.280 # 13-47, 53-91 odd
Test #2 | Chapters 3 & 4
9 | M 3/2- F 3/6 | Spring Break | College Closed
10 | M 3/9 – F 3/13 | Test #3 | Chapters 5 & 6
5.1 Proving Identities | p.297 # 15-67 eoo, 69-83 odd
5.2 Sum and Difference Formulas | p.308 # 9-37, 43-49 odd, 53-65 eoo
5.3 Double-Angle Formulas | p.317 # 7-41 odd, 43-67 eoo
5.4 Half-Angle Formulas | p.366 # 5-73 odd
5.5 Additional Identities | p.380 # 1-41 odd
5.6 Solving Trigonometric Equations | p.380 # 1-41 odd
12 | M 3/23 – F 3/27 | 6.3 Trig Equations with Multiple Angles | p.380 # 1-41 odd
6.4 Parametric Equations | p.380 # 1-41 odd
13 | M 3/30 – F 4/3 | Test #4 | Chapters 7 & 8
7.1 The Laws of Sines | p.399 # 5-41 odd
7.2 The Laws of Cosines | p.409 # 11-51 odd
14 | M 4/6 – F 4/10 | 8.1 / 8.2 | Trig Form for Complex Numbers
8.3 Products and Quotients in Trig Form | p.470 # 9-71 odd
8.4 Roots of Complex Numbers | p.478 # 5-63 odd
15 | M 4/13 – F 4/17 | 8.5 Polar Coordinates | p.488 # 5-39 odd
8.6 Equations in Polar Coordinates | p.498 # 9-75 odd
16 | M 4/20 – F 4/24 | Test #4 | Chapters 7 & 8
8.1 Polar Coordinates | p.510 # 13-67 odd
17 | F 4/27 – R 4/30 | Final Grades Due at 12:00 Noon For All Spring Classes

Course Performance: [http://www.scf.edu/Academics/Mathematics/MathematicsCoursePerformanceStandards.asp](http://www.scf.edu/Academics/Mathematics/MathematicsCoursePerformanceStandards.asp)
ARC: [http://www.scf.edu/StudentServices/AcademicResourceCenter/default.asp](http://www.scf.edu/StudentServices/AcademicResourceCenter/default.asp)
Final Exam Schedule: [http://www.scf.edu/Academics/FinalExamSchedule.asp](http://www.scf.edu/Academics/FinalExamSchedule.asp)
Phone numbers: 941-752-5224 (BC), 941-363-7264 (LWR), and 941-408-1476 (VC)