This course meets Area II requirements for both the A.A. and the A.S. general education requirements. This is a rigorous introduction to the mathematical concepts necessary for successful study of MAC 1114, MAC 1140 or MAC 2233. This course is primarily a conceptual study of functions and graphs, their applications and of systems of equations and inequalities. Linear, quadratic, rational, absolute value, radical, exponential and logarithmic functions will be investigated. The use of a graphing calculator is integrated throughout the course. Additional special fees are required. Students already with credit from MAC 1105 cannot subsequently get credit for MAT 1033. Course placement standards are available at the SCF website and in the Math Labs.

PREREQUISITES
A grade of “C” or better in MAT 1033 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.

TEXT:

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 MyMathLab (MML). If your instructor requires access to MML, it must be acquired by the end of the first week of classes. Videotapes and tutoring are available in the Academic Resource Center (ARC).

TESTS:
There will be four tests and a required comprehensive, departmental 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.

Points Scale
4 Exams 400 90 - 100% = A
Quizzes/Participation/Projects/Homework* 100-200 80 - 89% = B
Final Exam (cumulative) 200 70 - 79% = C
Total 700-800 60 - 69% = D

*Your instructor will choose the composition of these points.

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.

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.
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.

Students are required to communicate with their instructor using their official SCF email address.

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. For this semester’s date, see the Academic Calendar. Students should take responsibility to initiate the withdrawal procedure but are strongly encouraged to talk with their instructors before taking any withdrawal action. 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, and such action could affect financial aid eligibility.

A student in an accelerated or short-term course may withdraw without the academic penalty of a "WF" grade any time before the withdrawal deadline specific for the course. When a "WF" is entered, it is recorded in the student's permanent record and calculated as an "F" in the grade point average. SCF encourages the student to discuss a withdrawal with the instructor prior to withdrawing. A student who withdraws from any or all courses can withdraw online. Students should consult with the Financial Aid Services office prior to any course withdrawal.

Course withdrawals, after the deadline for the term or accelerated or short term course as published in the academic calendar, will result in a grade of "WF" which is computed in the term and cumulative GPA. Appeal request forms, accompanied by an explanation and documentation detailing major extenuating and documented circumstances, should be directed to the Vice President of Academic Affairs, who has the final approval/dis-approval authority. If the appeal is granted, the "WF" grade would be changed to a "W" without GPA consequences. Forms can be obtained from the respective campus advising centers.

Effective Fall 1997, the state mandates 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. A student must take responsibility for initiating the withdrawal procedure. If this procedure is not followed, a grade of "WF" may be recorded for the student and "F" calculated in the grade point average.

If a "WF" is entered, it will be recorded on the permanent record and calculated as "F" in the grade point average. All withdrawal policy statements apply to part-time as well as full-time degree credit and developmental credit students.

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 Website: 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.

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, Dr. Jim Condor (Bradenton), condorj@scf.edu, Dr. Jane Duke (Lakewood Ranch), dukej@scf.edu, or John Waters (Venice), watersj@scf.edu.
<table>
<thead>
<tr>
<th>Week</th>
<th>Sections Covered</th>
<th>Topics Covered</th>
<th>Suggested Homework Assignments</th>
</tr>
</thead>
</table>
| 1    | M 5/15 – R 5/18 | 1.1
|      |                 | 1.2
|      |                 | 1.3 | Graphs and Graphing Utilities
|      |                 |     | Linear & Rational Equations
|      |                 |     | Models and Applications |
|      |                 |     | p. 102 1-28
|      |                 |     | p. 118 1-80
|      |                 |     | p. 132 1-74 |
| 2    | M 5/22 – R 5/25 | 1.4
|      |                 | 1.5 (part 1) | Complex Numbers
|      |                 | 1.5 (part 2) | Quadratic Equations
|      |                 |     | p. 142 1-54
|      |                 |     | p. 160 1-63
| 3    | *M 5/29 – R 6/1 | 1.6 (part 1) | Other Types of Equations
|      |                 | 1.6 (part 2) | Other Types of Equations
|      |                 | 1.7 | Linear and Absolute Value Inequalities |
|      |                 |     | p. 178 1-40
|      |                 |     | p. 179 41-84, 105-116
|      |                 |     | p. 195 1-94, 103-133 |
|      | *M 5/29         | College Closed for Memorial Day. |
| 4    | M 6/5 – R 6/8   | Test 1.1-1.7
|      |                 | 2.1 | Basic Functions and Their Graphs
|      |                 | 2.2 (part 1) | More on Functions & Their Graphs
|      |                 | 2.2 (part 2) | More on Functions & Their Graphs
|      |                 |     | p. 224 1-92, 99-108
|      |                 |     | p. 238 1-36
|      |                 |     | p. 240 37-99 |
| 5    | M 6/12 – R 6/15 | 2.3
|      |                 | 2.4 | Linear Functions and Slope
|      |                 | 2.5 (part 1) | More on Slope
|      |                 |     | Transformation of Functions
|      |                 |     | p. 255 1-72, 87, 89
|      |                 |     | p. 266 1-30
|      |                 |     | p. 282 1-66 |
| 6    | M 6/19 – R 6/22 | 2.5 (part 2)
|      |                 | 2.6 | Transformation of Functions
|      |                 |     | Combinations & Composite Functions
|      |                 |     | p. 283 67-128
|      |                 |     | p. 297 1-100 |
| 7    | M 6/26 – R 6/29 | 2.7
|      |                 | 2.8 | Inverse Functions
|      |                 | 3.1 | Distance Formula and Circles
|      |                 | 3.2 | Quadratic Functions
|      |                 |     | Polynomial Functions & their graphs
|      |                 |     | p. 309 1-69, 76-86
|      |                 |     | p. 319 1-64
|      |                 |     | p. 343 1-44, 57-73
|      |                 |     | p. 360 1-32 |
| 8    | M 7/3 – R 7/6   | 3.5 (part 1)
|      |                 | 3.5 (part 2) | Rational Functions and Their Graphs
|      |                 | 3.6 | Rational Functions and Their Graphs
|      |                 |     | Polynomial & Rational Inequalities
|      |                 |     | p. 406 1-36
|      |                 |     | p. 407 37-78, 89-97
|      |                 |     | p. 420 1-60 |
|      | *T 7/4          | College Closed for Independence Day. |
| 9    | M 7/10 – R 7/13 | Test 2.7-2.8
|      |                 | 3.1-3.2, 3.5-3.6 | Exponential Functions
|      |                 | 4.1 | Logarithmic Functions
|      |                 | 4.2 | Properties of Logarithms
|      |                 | 4.3 | p. 451 1-76, 81
|      |                 |     | p. 465 1-119
|      |                 |     | p. 477 1-103 |
| 10   | M 7/17 – R 7/20 | 4.4 (part 1)
|      |                 | 4.4 (part 2) | Exponential and Logarithmic Equations
|      |                 | 4.5 | Exponential and Logarithmic Equations
|      |                 |     | Exponential Growth and Decay
|      |                 |     | p. 489 1-48
|      |                 |     | p. 490 49-118
|      |                 |     | p. 504 1-34 |
|      |                 | 5.1 | Systems of Linear Equations (2-var.)
|      |                 | 5.5 | Systems of Inequalities
|      |                 | 5.6 | Linear Programming
|      |                 |     | p. 527 1-84
|      |                 |     | p. 571 1-86
|      |                 |     | p. 580 1-23 |
| 12   | M 7/31          | Final Exam Review |

**Final Exams**

*Note: The Final Exam Schedule can be viewed at:*

http://www.scf.edu/Academics/FinalExamSchedule.asp

**Final Grades Due at 2pm For All Summer C Classes**

---

Course Performance: http://www.scf.edu/Academics/Mathematics/MathematicsCoursePerformanceStandards.asp

ARC: http://www.scf.edu/StudentServices/AcademicResourceCenter/default.asp

Final Exam Schedule: http://www.scf.edu/Academics/FinalExamSchedule.asp