 COURSE DESCRIPTION
This course meets Area II requirements for both the A.A. and the A.S. general education requirements. Topics include set theory, logic, geometry, counting principles, probability and statistics. Students already with credit for MGF 2202 cannot subsequently get credit for MGF 1106. Course performance standards are available at http://www.scf.edu/Academics/MathematicsScienceTechnologyBusiness/Mathematics/Courses/MGF1106TopicsinMathematics.asp 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 scientific calculator is required. Calculators can be used during exams with the exception of those calculators with symbolic manipulation capabilities (e.g., TI-89, TI-92).

ADDITIONAL MATERIALS:
Instructional software (MyMathLab) with access to supplemental homework problems, solutions to homework problems and video lectures is available in the bookstore. Your section may require that all students use the supplemental software (such as MyMathLab). If your instructor requires the software, it must be purchased by the end of the first week of classes. Student Solutions manuals are available in the bookstore. This optional manual contains solutions to the odd-numbered exercises at the end of each section and to all exercises in the review and tests in the text.

EXAMINATIONS:
There will be five exams and a required comprehensive final examination. NO MAKE-UP EXAMS WILL BE GIVEN.

GRADING:
Your grade in the course is determined by the percentage of points earned during the semester.

<table>
<thead>
<tr>
<th>POINTS</th>
<th>SCALE</th>
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<tbody>
<tr>
<td>5 EXAMS</td>
<td>90 - 100% = A</td>
</tr>
<tr>
<td>Quizzes/Participation/Projects/Homework*</td>
<td>80 - 89% = B</td>
</tr>
<tr>
<td>Final Exam (cumulative)</td>
<td>70 - 79% = C</td>
</tr>
<tr>
<td>Total</td>
<td>60 - 69% = D</td>
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<tr>
<td>*Your instructor will choose the composition of these points.</td>
<td>0 - 59% = F</td>
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</table>

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 unexcused 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. Electronic devices, such as iPods, Blackberries, etc. are not permitted to be used or worn during class.

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 Thursday, April 11, 2013. 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.

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.
<table>
<thead>
<tr>
<th>Week</th>
<th>Sections Covered</th>
<th>Topics Covered</th>
<th>Suggested Homework Assignments</th>
</tr>
</thead>
</table>
| 1    | M 3/4 – F 3/8    | 8.1 Basic Terms and Conversions within the Metric System  
8.2 Length, Area and Volume  
8.4 Dimensional Analysis and the Metric System  
2.1 Set Concepts  
2.2 Subsets  
2.3 Venn Diagrams and Set Operations | p. 485: 1-129 eoo  
p. 505: 1-65 eoo  
p. 50: 1-89 eoo  
p. 58: 1-57 eoo  
p. 68: 1-109 eoo |
| 2    | M 3/11 – F 3/15  | **Spring Break**  
College Closed |  |
| 3    | M 3/18 – F 3/22  | 2.4 Venn Diagrams with 3 Sets  
2.5 Applications of Sets  
3.1 Statements and Logical Connectives | p. 86: 1-13 odd  
p. 109: 1-89 eoo |
| 4    | M 3/25 – F 3/29  | 3.2 Truth Tables for Negation, Conjunction and Disjunction  
3.3 Truth Tables for the Conditional and Biconditional  
3.4 Equivalent Statements  
3.5 Symbolic Arguments  
3.6 Euler Diagrams and Syllogistic Arguments | p. 122: 1-73 eoo  
p. 133: 1-81 eoo  
p. 146: 1-85 eoo  
p. 159: 1-65 eoo  
p. 167: 1-29 eoo |
| 5    | M 4/1 – F 4/5    | Test # 2  
9.1 Points, Lines, Planes and Angles  
9.2 Polygons  
9.3 Perimeter and Area  
9.4 Volume and Surface Area | p. 523: 1-101 eoo  
p. 533: 1-73 eoo  
p. 545: 1-53 eoo  
p. 561: 1-53 eoo |
| 6    | M 4/8 – F 4/12   | **Test # 3**  
9.5 Transformational Geometry, Symmetry and Tessellations  
9.6 Topology  
12.1 The Nature of Probability  
12.2 Theoretical Probability  
12.3 Odds | p. 579: 1-53 eoo  
p. 590: 1-45 eoo  
p. 729: 1-29 eoo  
p. 737: 1-77 eoo  
p. 745: 1-57 eoo |
| 7    | M 4/15 – F 4/19  | 12.5 Tree Diagrams  
12.6 Or and And Problems  
12.7 Conditional Probability  
12.8 The Counting Principle and Permutations  
12.9 Combinations | p. 766: 1-25 eoo  
p. 778: 1-101 eoo  
p. 787: 1-69 eoo  
p. 799: 1-61 eoo  
p. 806: 1-41 eoo |
| 8    | M 4/22 – F 4/26  | 13.1 Sampling Techniques  
13.2 The Misuses of Statistics | p. 837: 1-21 eoo  
p. 841: 1-21 eoo |
| 9    | M 4/29 – R 5/2   | **Test # 4**  
13.3 Frequency Distributions  
13.4 Statistical Graphs  
13.5 Measures of Central Tendency  
13.6 Measures of Dispersion | p. 847: 1-29 eoo  
p. 855: 1-25 eoo  
p. 867: 1-53 eoo  
p. 877: 1-29 eoo |
|      | **FINAL EXAMS**  | **Note:** The Final Exam Schedule can be viewed at: [www.scf.edu/pages/153.asp](http://www.scf.edu/pages/153.asp) |
|      | **F 5/3**        | **Final Grades Due For Spring Classes**  
**Thurs., 4/11, is the last day to withdraw without academic penalty.** |