SYLLABUS Online
Mathematics
MGF 1107 Liberal Arts Mathematics

Semester and Year: Summer B 2012
Class Meets:
- Tuesday, June 26th @ 8 am - Orientation
- Tuesday, July 10th @ 8 am – Test 1
- Tuesday, July 24th @ 8 am – Test 2
- Tuesday, July 31th @ 8 am – Final Exam

Instructor’s Name: Anna Wasilewska
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Phone: 941-752-5687
Office: Building 27/Room 117
Office Hours: Monday through Thursday 12 pm – 1 pm
Email Address: wasilea@scf.edu
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Academic Resource Center: http://www.scf.edu/pages/144.asp
Student Services: http://www.scf.edu/pages/242.asp

COURSE DESCRIPTION:
MGF 1107 Liberal Arts Mathematics (3) (A.A.). Three hours lecture per week. Prerequisite: MAT 1033 or equivalent. This course meets Area II requirements for both A.A. General Education Requirements and A.S. General Education Requirements. The course provides an opportunity for students to see mathematics used in ways not emphasized in traditional algebra courses. This course includes the study of: voting strategies, graph theory, sequences and numerical patterns, and financial mathematics.

Performance Standards:
Upon successful completion of this course, the student should be able to:

1. Choose the winner of an election using the plurality, Borda count, plurality with elimination, and pairwise comparison methods.
2. Show that the plurality, Borda count, plurality with elimination, and pairwise comparison methods violate at least one of the fair and reasonable standards for a fair and sensible voting system.
3. Use principles of graph theory and networks to solve routing problems.
4. Discuss the development of various systems of numeration throughout history.
5. Perform arithmetic operations in other bases.
6. Comment on the historical contributions of other cultures to mathematics, including the development of irrational numbers and the Golden Ratio.
7. Classify real numbers into subsets by their inherent properties.
8. Discuss closure of a set under a given operation.
9. Generalize clock arithmetic to modular arithmetic.
10. Recognize arithmetic and geometric patterns in the world as they relate to linear and exponential growth, respectively.
11. Calculate simple and compound interest.
12. Calculate annual percentage rate.
13. Find the finance charge, average daily balance, and monthly payment on a loan.
14. Find the annual add-on interest rate being used for a loan.
15. Find the future value of an investment.

FORMAT
This is a distance-learning course. It is NOT self-paced. You will be learning through the use of the text, cd lecture series, and MyMathLab. You will work outside class to complete the course material as outlined in the attached schedule and come to the Bradenton campus to take traditional paper and pencil exams.

**TEXT**

**MATERIALS**
Instructional software (MyMathLab) is required. MyMathLab provides access to course contents including study plan, homework problems, ebook, etc.
A scientific calculator is required. Calculators can be used during exams with the exception of calculators with symbolic manipulation capabilities.

**ATTENDANCE POLICY**
It is your responsibility to put in time each week working on the course material and to be on schedule. The time you spend working on the computer software is recorded for your instructor. You are required to log into MyMathLab at least once a week to work on your course assignments. Failing to do so could result in missed due dates for activities and withdrawal from the course.

**HOMEWORK**
**Online Homework**
Doing homework is a critical part of learning mathematics. The online homework is due weekly. You may start the homework, leave and come back to it. It is theoretically possible to get 100% on all the homeworks as you’re allowed to keep trying problems until you get them correct. However, all homework must be completed by the due date (always on Monday at 11:59 pm). After the due date, each student is allowed two homework opening, but each request would result in subtracting 4 points from the homework grade. These will be given via e-mail request through the instructor. Use the two requests wisely because any further missed due dates will result in a zero (regardless of the excuse).

**Paper and pencil assignments**
There would be six pencil and paper homework assignments. These provide you with the opportunity to work problems away from the computer, which helps you prepare for the paper and pencil exams. The paper and pencil homework will be collected on the test day. To receive credit for the paper and pencil homework, you have to show all your work.

**EXAMS**
**Online exams**
There would be four online quizzes. Each quiz is based on the material covered in the homework. Each quiz must be completed according to the due dates provided below.

**In-person exams**
There will be three exams, all given on Bradenton campus in room 105 on Tuesdays at 8 am. These exams are traditional paper and pencil tests during which you will be able to refer to your notes and a calculator. For chapter tests you can bring the two small (3 x 5) index cards, and for the final exam one page A-4 of your own notes. The in-person chapter exams will count as 200 points each.

**MAKE-UPS**
THERE WILL BE NO MAKE-UPS FOR MISSED EXAMS EXCEPT IN DOCUMENTED EXTREME CIRCUMSTANCES. Contact your instructor ASAP to discuss such cases.

**GRADING**
Your grade is based on the following accumulation of points:
Homework Section

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Homework</td>
<td>32 sections, each worth 6pts</td>
<td>192</td>
</tr>
<tr>
<td>Review for chapter tests</td>
<td>3 reviews, each worth 25 pts</td>
<td>75</td>
</tr>
<tr>
<td>Unopened Homework</td>
<td>Twice per semester, each worth 4 pts</td>
<td>8</td>
</tr>
<tr>
<td>Final review</td>
<td>One per semester, worth 25 pts</td>
<td>25</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>300    pts</td>
</tr>
</tbody>
</table>

Exams

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Quizes</td>
<td>4 per semester, each worth 25 pts</td>
<td>100</td>
</tr>
<tr>
<td>In-person tests</td>
<td>2 per semester, each worth 200 pts</td>
<td>400</td>
</tr>
<tr>
<td>Final Exam (cumulative)</td>
<td>One per semester, worth 200 pts</td>
<td>200</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>700    pts</td>
</tr>
</tbody>
</table>

The grading scale is A=90-100%; B=80%-89%; C=70% - 79%; D=60%-69; F= 0%-59%

RESPONSE TIME
Students will typically receive replies to e-mail within 24 hours M – F. Exam scores will be posted confidentially on-line within 7 days following the exam date.

STUDENT INTERACTION
Students will have the opportunity to interact with their classmates via the MyMathLab provided discussion board and e-mail.

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 July 2, 2012. 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.

CONDUCT
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 is withdrawal from the course.

ELECTRONICS POLICY
Cell phone etiquette must be observed: In-class usage is restricted to emergency situations. 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 in class.

ACCOMMODATION 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.

Information of Computer Technical Support

SCF Technical Support 24/7 Toll-Free 866-506-1188 (Report evening and weekend access problems)
<table>
<thead>
<tr>
<th>Week</th>
<th>Sections Covered</th>
<th>Topics Covered: Read the sections in the book In addition you can watch the videos and animations included in the multimedia library</th>
<th>Due date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.1, 1.3, 4.1, 4.2, 4.3, 4.4, 4.5</td>
<td>Inductive Reasoning, Problem Solving, Numeration Systems, Numeration Systems, Other Bases, Computation in Other Bases, Early Computational Methods Sections 1.1, 1.3, 4.1-4.5</td>
<td>7/03 by 11:59 pm</td>
</tr>
<tr>
<td>2</td>
<td>5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8</td>
<td>Number Theory, The Integers, The Rational Numbers, Irrationals and Reals, Real Numbers and Properties, Exponents and Scientific Notation, Sequences, Fibonacci Sequence</td>
<td>7/9 by 11:59 pm Bring to class on the test day</td>
</tr>
<tr>
<td>3</td>
<td>10.1, 10.2, 10.3</td>
<td>Groups, Finite Mathematical Systems, Modular Arithmetic Sections 10.1-10.3</td>
<td>7/10 @ 8 am</td>
</tr>
<tr>
<td>4</td>
<td>11.1, 11.2, 11.3, 11.4, 11.5, 11.6</td>
<td>Percent, Loans and Simple Interest, Compound Interest, Installment Buying, Mortgages, Annuities and Investments</td>
<td>7/23 by 11:59 pm Bring to class on the test day</td>
</tr>
<tr>
<td>6</td>
<td>Chapter 14 Test p. 971, all (book), Chapter 15 Test p. 1038, 1-6,10a-d</td>
<td>Chapter 14 Test p. 971, all (book), Chapter 15 Test p. 1038, 1-6,10a-d</td>
<td>7/30 by 11:59 pm</td>
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</table>

**Notes:**
- **Week 2:** Independence Day College closed
- **Week 3:** Test 1
- **Week 4:** Review 2
- **Week 5:** Test 2
- **Week 6:** Review 3, Final Review, Final Exam
- **Due dates:** All assignments and quizzes are due by the specified dates, except for the final exam, which is cumulative and all sections are covered, due by 7/31 @ 8 am.