Course Syllabus for MATH 101 (Spring 2009)
Contemporary Mathematics

Instructor Information
Name: Dr. Rebecca S. Wills
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Office Hours: Mon. (3:40 - 5:10), Tues. (1:20 - 3:20),
Wed. (3:40 - 4:10), Thurs. (1:20 - 3:20), and by appointment

Class Information
Meeting Time and Location: Block 6 (2:20 - 3:20 p.m.), Life 301
Final Exam: Tuesday, April 28 (2:00 - 5:00 p.m.)
Blackboard: Check it daily for announcements and postings.
Pre-requisite: None
Catalog Description: Theory and application of the contemporary mathematical topics of graph theory, modeling of social choice, and selected others. (Not open to students who have received credit for Mathematics 112 or higher.)
Textbook: Excursions in Modern Mathematics (6th ed.), by Tannenbaum

Course Objectives: Develop an understanding of voting methods and fairness criteria, weighted voting, fair division, apportionment, graph construction, Euler circuits, Hamilton circuits, trees, networks, directed graphs, and other topics as time permits

Tentative Course Schedule: We will attempt to follow the daily schedule posted to Blackboard.

Attendance Policy:
Visit http://www.roanoke.edu/catalog2007/attendance.htm for Roanoke College’s attendance policy. I will take attendance at the beginning of each class period. Arriving late or leaving before the class period is over (without excuse or dismissal) could be considered as absences for class. Notify me as soon as possible if you will not be attending class.

Academic Integrity Statement: All students are expected to read and abide by all policies outlined in the Academic Integrity at Roanoke College brochure for 2007-2009. See http://www.roanoke.edu/catalog2007/integrity.htm and http://web.roanoke.edu/x2560.xml for additional information.

Software/Technology:
- Although a basic handheld calculator is sufficient for this class, you are permitted to use a graphing calculator. Please note that you are not permitted to share calculators during tests.
- If you plan to use your laptop during class, you must submit to your instructor a signed copy of the Laptop Agreement Form, which is available for download from Blackboard.
- Cell phones must be turned off before class begins. In the event that your cell phone rings during class because you forgot to turn it off, please silence it as quickly as possible. It is not acceptable to use your cell phone for any purpose during class. Note that any purpose includes text messaging!
- Additional items not permitted for use in class include (but are not limited to): Palm Pilots, Pocket PCs, Blackberrys, and headphones.

Information for Students with Disabilities: Reasonable accommodations will be made. For additional information, see http://www.roanoke.edu/catalog2007/StudentsDisabilities.htm.

Daily Reading: To prepare for class discussion of course material, you are expected to read sections from the textbook before the period when corresponding material has been scheduled to be covered.

Determination of Final Grades
MCSP Conversation Series (1.5%)
- The MCSP department offers a series of discussions that appeal to a broad range of interests related to these fields of study. These co-curricular sessions will engage the community to think about ongoing research, novel applications and other issues that face these disciplines.
- As a member of this class, you are required to attend one meeting and submit to your instructor a correctly completed Conversation Series Form (available to download from Blackboard). For full credit, you must submit the form no later than the beginning of the 3rd class period after the date of the talk. Note that a detailed summary of the talk will be required for a perfect score.
- For a listing of dates, times, speakers, and topics, visit http://cs.roanoke.edu/MCSPSeries/ (updated often).

Projects (12% - 3 projects worth 4% each)
- You will have at least one week to complete each project.

Homework (17.5% - 7 assignments worth 2.5% each)
- Due dates are posted on the class schedule page.
- You are encouraged to discuss problems with others; however, the work you submit must be written or typed by you and must be a reflection of your understanding of the material.
- A portion of each homework grade will be based on formatting. Follow the "Suggested Homework Format" at http://www.math.hmc.edu/homework/.
- In general, late submissions will be reviewed but will not receive a grade.
- In addition to graded homework, you are encouraged to attempt other exercises from the textbook.

Tests (45% - 3 tests worth 15% each)
- Dates: Test 1 (Mon., February 2), Test 2 (Fri., February 27), Test 3 (Mon., April 6)
- Unless weather conditions dictate otherwise, the above test dates will not change. If you miss or will be missing a test for reasons beyond your control (college sports team event, sickness, family tragedy, etc.), notify your instructor as soon as possible. An appropriate letter of documentation will be required to make up a test.
- Note: Test 2 is scheduled for the Friday before Spring break. Make sure you keep this in mind when making plans for break. Leaving early for Spring break is not a valid reason to reschedule your test.
- If you have no more than 3 absences (for any reason) at the end of the semester, your lowest test grade will count half the weight of the other 2 tests (lowest: 9%, other two: 18%).

Cumulative Final Exam (24%)
Letter Grade
- 100-93 A
- 92-90.99 A-
- 87-89.99 B+
- 83-86.99 B
- 80-82.99 B-
- 77-79.99 C+
- 73-76.99 C
- 70-72.99 C-
- 67-69.99 D+
- 63-66.99 D
- Below 60 F

Note: Do not assume that grades will be rounded at the end of the semester.