Math 101 - Contemporary Mathematics
Block 2 Spring 2009
(not open to students who have received credit for Math 104, 105, or 112 or higher)

Text:  Excursions in Modern Mathematics with Mini-Excursions Sixth Edition
        Chapters 1-7, 11-12
Other supplemental material distributed in class

Instructor:  Jan Minton  461 Trexler Hall
            Office Hours:  2-4  Monday - Thursday
            Appointments available at other times also.
            Phone:  375-2488
            Email:  jminton@roanoke.edu

Course Objective: Develop understanding of the modeling of social choice, applications of graph theory and game theory, and visual pattern development based on symmetry and fractals.

Attendance Policy: Full attendance is expected and you are responsible for everything done and assigned in class. See the Academic Catalog regarding attendance. Also, anytime you come in late or leave during class you miss part of the course and you disrupt the educational experience for everyone else. Do this only in the case of emergency. If you should have to interrupt the class to leave, do not re-enter (a second interruption) until the end of the class period or a time at which the class is not in lecture mode.

Academic Integrity and Electronic Devices: The college policy is fully supported. All tests and quizzes will be closed book and closed notes. Hand-in assignments must be produced individually. Any exceptions to this will be explained at the time the assignment is made.

   Cell phones and pagers must be turned off prior to entering the classroom. In the unlikely event that you need to turn on your cell phone during class, you must have permission of the instructor to do so. Otherwise, anyone using a cell phone for any reason during class is subject to being dropped (DF) from the course.

   The use of any electronic device during a quiz or exam is strictly prohibited. This includes PalmPilots, Pocket PCs, and Blackberrys. Any use of such devices during a quiz or exam will be considered a breach of academic integrity. Basic handheld calculators may be used.

Tests/Exam: There will be four tests. Anticipated dates are: Feb. 6, Feb 27, Mar. 27 and Apr. 17. Make-up tests will be given only under very extenuating circumstances that prohibit you from physically appearing in the classroom. The comprehensive final exam will be 2:00-5:00 on Thursday April 23.

“Daily” Grades: Frequent grades will be earned from in-class activities, quizzes, or simple outside of class research questions. There will be no make-ups but your lowest three daily grades will be dropped.

Hand-in Assignments: There will be 4 assignments generally due during non-test weeks. Each assignment will have an activity as well as a writing component.

Co-curricular Involvement: The Math, Computer Science and Physics 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 our discipline. Dates and times will be announced later.

Members of this class are encouraged to be involved with all of these meetings; however participation in at least one of these sessions is mandatory. A response form is available in Blackboard as a Course Document. Within one week of attendance, students must submit this completed form to the instructor.
Textbook Problems: Practice problems will be regularly assigned from the textbook. Even though these will not be graded, it is important that you do these exercises in a timely fashion so that you can monitor your own progress.

Grading:

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<th>Component</th>
<th>Weight</th>
<th>Course</th>
<th>A-</th>
<th>B-</th>
<th>D+</th>
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<tbody>
<tr>
<td>Tests</td>
<td>55%</td>
<td>93-100</td>
<td>B-</td>
<td>80-82</td>
<td>67-69</td>
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<tr>
<td>Daily Grades</td>
<td>10%</td>
<td>90-92</td>
<td>C+</td>
<td>77-79</td>
<td>63-66</td>
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<tr>
<td>Hand-in Grades</td>
<td>15%</td>
<td>87-89</td>
<td>C</td>
<td>73-76</td>
<td>60-62</td>
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<td>Final Exam</td>
<td>20%</td>
<td>83-86</td>
<td>C-</td>
<td>70-72</td>
<td>below 60</td>
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Averages:

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<th>Averages</th>
<th>A-</th>
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Failure to complete the co-curricular component of the course will result in the lowering of the final course grade by one level. For example an A becomes an A-, and an A- becomes a B+, and so on.

Note: Material, content, and scheduling are subject to change if deemed appropriate or necessary by the instructor.