INSTRUCTOR INFORMATION

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Office: Godbey Hall, Room 43

IMPORTANT:
☑️ The recommended browser to use with the current version of Blackboard is Mozilla Firefox. Other browsers are inconsistent in their performance with Blackboard. When taking tests or quizzes, USE a wired connection.
☑️ Check your VCCS email regularly and respond/keep in touch with your instructor.

COURSE DESCRIPTION

Description: Presents topics in functions, combinatorics, probability, statistics and algebraic systems.

Prerequisite: A placement recommendation for MTH 152 and Algebra I, Algebra II, and Geometry or equivalent.

Credits: 3
Submissions: For each of 4 modules, 4-5 online homework assignments, 2-3 quizzes, 1 proctored paper/pencil test
For the semester project, 6-7 pieces including the final product
5-6 other, such as discussion board participation
1 comprehensive paper/pencil final exam
Assessments: Same as Submissions
Proctored Assessments: 5
Online Activities: Required

COURSE MATERIALS


Calculator: Scientific calculator. Required. A TI-30 or TI-36 is recommended.
The testing centers at NRCC will provide TI-30X IIS calculators for you to use on tests. ONLY the testing center issued calculator will be allowed on the test, no exceptions.

**Note:** NRCC assumes no liability for virus, loss of data, or damage to software or computer when a student downloads software for classes.

*The Student's Guide to Distance Education* is available at [http://www.nr.edu/de/pdf/stuguide.pdf](http://www.nr.edu/de/pdf/stuguide.pdf).

This course requires a folder for graded materials. **You must choose a graded folder location by June 2, 2015.** Copy and paste the following link to your browser to choose either the main campus Testing Center or the Mall Site: [http://www.nr.edu/de/folderloc/picoloc.php](http://www.nr.edu/de/folderloc/picoloc.php)
COURSE INFORMATION

Prepared By: Caroline Abbott  
Approved By: Dr. Janice Shelton

A. INTRODUCTION

This is a Distance Education course designed specifically for those students whose learning styles are best served by providing instructional opportunities beyond the traditional classroom setting.

This is a survey course. This course is intended for transfer students in majors other than sciences, business, engineering, and other mathematics-related areas.

B. COURSE OUTCOMES

Upon the successful completion of this course, the student will be able to:

1. Solve application problems by interpreting the materials presented, including determining the nature and extent of the information needed, and present the answer in standard English.
2. Estimate and consider answers to mathematical problems in order to determine reasonableness.
3. Identify functions, domain, and range.
4. Evaluate functions.
5. Graph linear functions.
6. Decide whether an ordered pair solves a system.
7. Solve a system by graphing, elimination, and substitution.
8. Solve applications of linear systems.
9. Evaluate exponential and logarithmic expressions.
10. Graph exponential and logarithmic functions.
11. Solve applications of exponential and logarithmic functions.
12. Calculate simple and compound interest.
13. Find present and future value.
14. Solve problems about add-on interest.
16. Solve problems about the finances of home ownership.
17. Solve problems about financial investments.
18. Solve problems by systematic listing.
19. Calculate using factorial notation.
22. Solve problems using permutations, combinations, and/or other various methods.
23. Use Pascal’s triangle to solve combination problems.
24. Use counting principles involving “not” and “or.”
25. List sample space and find basic probabilities.
27. Determine whether two events are mutually exclusive.
28. Compute probabilities using “not” or “or.”
29. Construct a probability distribution table.
30. Determine whether two events are independent or dependent.
31. Solve probability involving “and.”
32. Solve binomial probability problems.
33. Construct frequency tables, histograms, and frequency polygons.
34. Construct stem-and-leaf displays.
35. Find mean, median, and mode of a data set.
36. Solve problems involving measures of central tendency.
37. Find range and standard deviation for a data set.
38. Solve problems involving measures of variation.
39. Use z-scores to calculate percentiles, deciles, and quartiles.
40. Construct box plots.
41. Find percent of data within a number of standard deviations from the mean.
42. Find z-scores, given percentages.
43. Solve problems involving normal distribution.

C. GRADING/EVALUATION

1. The final grade for the course will be determined as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Tests (4 @ 100 pts each)</td>
<td>400</td>
</tr>
<tr>
<td>Quizzes (10 @ 10 pts each)</td>
<td>100</td>
</tr>
<tr>
<td>Cumulative Quiz (1 @ 25 pts)</td>
<td>25</td>
</tr>
<tr>
<td>Project</td>
<td>150</td>
</tr>
<tr>
<td>MyMathLab Assignments (19 @ 5 pts)</td>
<td>95</td>
</tr>
<tr>
<td>Getting Started Assignments</td>
<td>50</td>
</tr>
<tr>
<td>Discussion Boards Modules 1-4</td>
<td></td>
</tr>
<tr>
<td>Collaborate Sessions*</td>
<td>10</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>200</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1030</strong></td>
</tr>
</tbody>
</table>

*There are ten points possible for the discussion boards and Collaborate sessions for Modules 1-4 altogether. They will be posted as one score at the end of the semester.

There are 6 modules (Getting Started, the Project, and Modules 1-4), each with its own due date. All work for a module, including the final test, must be submitted by the posted due date.

No late work will be accepted! The only exception is MyMathLab homework assignments for which there is a 10% penalty on late work.

One-half of the final exam grade can be used to replace a module test grade if a module test grade is less than one-half of the final exam grade.

Homework – Each section has a MyMathLab assignment, a book assignment, a handout assignment, or a combination. Each MyMathLab assignment counts 5 points. Your MyMathLab score will be converted to a 5-point scale. Students may submit MyMathLab homework assignments after the posted due date until the absolute deadline. This deadline is provided in Blackboard>Assignments.

Quizzes – There are ten (10) quizzes throughout the semester. They are administered through MyMathLab. The quiz problems are similar to those encountered in homework. There is also a 25-point cumulative quiz administered through Blackboard.
Project – The project consists of an extensive homework assignment in MyMathLab for each of the five sections of chapter 13, Personal Financial Management, and a set of related activities. Each homework assignment is worth 25 points and the set of activities is worth 25 points. Thus, the project is worth 150 points in all.

Tests – There are four (4) 100-point, paper/pencil tests. There are no make-up tests. If a student misses a test, the grade for that test is “0”. Tests are taken in one of NRCC’s testing centers (or with an approved proctor if a student lives outside NRCC’s service area or has a documented disability).

Final Exam – There is a 200-point comprehensive final exam. Half of the final exam grade also replaces the lowest test grade if doing so is to the student’s advantage. Everyone, except those as specified above, takes the final exam.

2. Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90-100</td>
<td>900+</td>
</tr>
<tr>
<td>B</td>
<td>80-89</td>
<td>800-899</td>
</tr>
<tr>
<td>C</td>
<td>70-79</td>
<td>700-799</td>
</tr>
<tr>
<td>D</td>
<td>60-69</td>
<td>600-699</td>
</tr>
<tr>
<td>F</td>
<td>59-below</td>
<td>&lt;600</td>
</tr>
</tbody>
</table>

D. WITHDRAWAL POLICY

Student Initiated Withdrawal Policy
A student may drop or withdraw from a class without academic penalty during the first sixty percent (60%) of a session. For purposes of enrollment reporting, the following procedures apply:

a. If a student withdraws from a class prior to the termination of the add/drop period for the session, the student will be removed from the class roll and no grade will be awarded.

b. After the add/drop period, but prior to completion of sixty percent (60%) of a session, a student who withdraws or is withdrawn from a course will be assigned a grade of "W." A grade of "W" implies that the student was making satisfactory progress in the class at the time of withdrawal, that the withdrawal was officially made before the deadline published in the college calendar, or that the student was administratively transferred to a different program.

c. After that time, if a student withdraws from a class, a grade of "F" will be assigned. Exceptions to this policy may be made under documented mitigating circumstances if the student was passing the course at the last date of attendance.

A retroactive grade of "W" may be awarded only if the student would have been eligible under the previously stated policy to receive a "W" on the last date of class attendance. The last date of attendance for a distance education course will be the last date that work was submitted. Late withdrawal appeals will be reviewed and a decision made by the Coordinator of Student Services.
**Instructor Initiated Withdrawal**

Students who have not attended class or picked up/accessed distance learning materials by the last day to drop the class and receive a refund must be withdrawn by the instructor during the following week. All of the Getting Started assessments must be completed by this date. No refund will be applicable.

Students will be withdrawn from the course if 2 module tests (or 1 module test and the project) are not completed by the posted due date or if one module test is not completed by the posted due date and student inactivity has lasted for more than 14 consecutive days (2 weeks).

“Student inactivity” is defined as no submission of assignments in MyMathLab, no submission of assignments or participation in forums in Blackboard, no receipt of assignments or tests in the DE testing center, and no communication from the student to the instructor.

Students who are withdrawn in this manner after the withdrawal date set each semester receive a grade of “F” in the course.

Please contact me immediately if temporary circumstances will prevent you from satisfying these conditions.

If I have withdrawn you and you wish to be reinstated, please contact me.

**No-Show Policy**

A student must either attend face-to-face courses or demonstrate participation in distance learning courses by the last date to drop for a refund. A student who does not meet this deadline will be reported to the Admissions and Records Office and will be withdrawn as a no-show student. No refund will be applicable, and the student will not be allowed to attend/participate in the class or submit assignments. Failure to attend or participate in a course will adversely impact a student’s financial aid award.

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**E. CHEATING/PLAGIARISM POLICY**

A grade of zero will be awarded to any writing assignments or tests that show cheating or plagiarism. This zero will not be replaced by half of the final exam grade. To plagiarize is “To use and pass off as one’s own the ideas or writings of another.” (Definition adapted from the American Heritage Dictionary.) Remember that plagiarism includes lifting words or ideas from Internet sites, as well as copying from print sources.

**F. DIVERSITY STATEMENT**

The NRCC community values the pluralistic nature of our society. We recognize diversity including, but not limited to, race, ethnicity, religion, culture, social class, age, gender, sexual orientation and physical or mental capability. We respect the variety of ideas, experiences and practices that such diversity entails. It is our commitment to ensure equal opportunity and to sustain a climate of civility for all who work or study at NRCC or who otherwise participate in the life of the college.

New River Community College does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. The following person has been designated
to handle inquiries regarding the non-discrimination policies: Dr. Mark C. Rowh, Vice President for Workforce Development and External Relations, 217 Edwards Hall, 540-674-3600, ext. 4241.

G. **DISABILITY STATEMENT**

If you are a student with a documented disability who will require accommodations in this course, please register with the Center for Disabilities Services located in the Counseling Center in Rooker Hall for assistance in developing a plan to address your academic needs.