

# NEW RIVER COMMUNITY COLLEGE

DUBLIN, VA

## COURSE PLAN

Course Number and Title: MTH 242/BUS 222 – Statistics II/Business Statistics II (3 cr./3 cr.)

Prepared By: Rachel Case  
(Instructor)

Spring, 2005  
(Date)

Approved By: \_\_\_\_\_  
(Acting Dean)

Spring, 2005  
(Date)

### I. Course Description

**BUS 222 – Business Statistics II.** Continues study of inferential statistics and application of statistical techniques and methodology in business. Includes analysis of variance, regression and correlation measurement of business and economic activity through the use of index numbers, trend, cyclical, and seasonal effects and the Chi-Square distribution and other non-parametric techniques. Prerequisite: BUS 221 or division approval.

**MTH 242 – Statistics II.** Continues the study of estimation and hypothesis testing with emphasis on correlation and regression, analysis of variance, Chi-square tests and non-parametric methods. Prerequisite: MTH 241 or equivalent.

### II. Instructional Materials

Textbook: Elementary Statistics: A Step by Step Approach, 5<sup>th</sup> edition, Allan G. Bluman, Publisher: McGraw Hill, 2004

Software: A CD-ROM should accompany the textbook. MicroSoft Excel 2000 or later – available on NRCC lab PC's. It is also often available at your public library.

### III. Course Content

Chapter 8 Hypothesis Testing for Proportions, Variances and Standard Deviations

Chapter 9 Testing the Difference, Between Two Means, Two Variances, and Two Proportions

Chapter 10 Correlation and Regression

Chapter 11 Chi-Square Tests

Chapter 12 Analysis of Variance

Chapter 13 Nonparametric Statistics

Material may be omitted according to time.

#### IV. Grading

**Tests.** There will be 5 100-point tests given during the semester. The content of each test will be determined by the material covered since the previous test. There will be no make-up test. Any test missed will receive a score of “O”. (See Final Exam Section) Tests may be taken early with early notice. The average of all tests will count as 60% of the course grade.

#### Quizzes

There will be approximately 5 quizzes with questions and problems taken directly from the homework. Any missed quiz will receive the score “O”.

**Homework.** Homework will be assigned at the end of every class. Out of the daily assignment, selected problems may be assigned to turn in. Also various problems done in class may be graded as announced. *In-class work will count as bonus points and cannot be made up. Late homework will not be accepted without a penalty.*

Quizzes and homework will count as 20% of the course grade.

**Final Exam.** There will be one 100-point comprehensive exam given during finals week. This score can also be used to replace the lowest test score (including any missed exam) if desired.

The Final Exam average will count as 20% of the course grade.

**Course Grade.** Course grades will be calculated as follows:

$$\text{Course Average} = .60 (\text{Test Avg}) + 0.20 (\text{Homework \& Quiz Avg}) + 0.20 (\text{Final Exam Average})$$

The following grading scale will be used.

| <u>Course Average</u> | <u>(%)</u> | <u>Letter Grade</u> |
|-----------------------|------------|---------------------|
| 90-100                |            | A                   |
| 80-89                 |            | B                   |
| 70-79                 |            | C                   |
| 60-69                 |            | D                   |
| Below 60              |            | F                   |

#### V. Attendance and Withdrawal Policy

**Attendance.** Attendance will be taken at the beginning of each class meeting. Students missing class are responsible for any material covered and assignments made in their absence. Graded in-class work cannot be made up. (See also **Homework** in section IV and **Instructor Initiated Withdrawal**, below.)

**Withdrawal.** The following is taken from the 2004-2005 college catalog, pages 24 and 25:

### **Student Initiated Withdrawal**

A student may drop or withdraw from a class without academic penalty during the first 60 percent 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 60 percent of a session, a student who withdraws from a class will be assigned a grade of "W." A grade of withdrawal 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 an "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**

A student who adds a class or registers after the first day of class is counted absent from all class meetings missed. Each instructor is responsible for keeping a record of student attendance in each class.

Students who have not attended class by the last day to drop the class and receive a refund, must be deleted by the instructor during the following week. No refund will be applicable.

*When a student's absences equal twice the number of weekly meetings of a class, the student may be dropped for unsatisfactory attendance in the class by the instructor.*

When an instructor determines that absences constitute unsatisfactory attendance, a Faculty Withdrawal Form should be completed and submitted to the Admissions and Records Office within five days of when the student met the withdrawal criteria. The last date of attendance must be documented. A grade of "W" will be recorded during the first

sixty percent (60%) period of a course. Students withdrawn after the sixty percent (60%) period will receive a grade of “F” except under documented mitigating circumstances when a letter of appeal has been submitted by the student. A copy of this documentation must be placed in the student’s academic file.

The student will be notified of the withdrawal by the Admissions and Records Office. An appeal for reinstatement into the class may be approved only by the instructor.

## **VI. Cheating**

Giving or receiving help from another student or unauthorized individual on any graded portion of the course is considered cheating and will not be tolerated. Use of books, notes, electronic media cell phone calculators, or any other unauthorized material during tests is considered cheating. Using Microsoft Excel help files is permitted, however.

Any student found cheating will receive a grade of “0” on that particular assignment and possibly an “F” for the course. This “0” cannot be made up or replaced by the final exam score.