

# Statistics

## NHTI SYLLABUS

Department Course Number: MT251-ES

Course Title: **Statistics (4 credits)**

Section: To be announced      Semester: Spring 2010 - 1/18 – 5/7/10

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“The statistics on sanity are that one out of every four Americans is suffering from some form of mental illness. Think of your three best friends. If they are ok then it’s you!”  
Rita Mae Brown (1944- \_\_\_\_\_) US  
writer and Playwright

### Required Texts and Materials:

**Textbook:** (and software)

**Elementary Statistics Using Excel**, by Triola, 4th edition, Published by Addison Wesley, ISBN 9780321564979

### Supplemental Texts and Materials:

In addition to the text, you will need a TI-83 (or 84) Graphing Calculator (required for this course, see course description below), quarter-ruled graph paper, straightedge, a notebook and pens and pencils. We also use theDDXL for Excel software that comes with your book.

### Catalog Description:

MT 251 Statistics 4-0-4

Topics include: basic measurements of central tendency and variability, frequency distributions; probability; binomial, Poisson, and normal distributions; sampling distributions; estimation of parameters; hypothesis testing; simple and multiple regression; correlation. A graphing calculator\*\* will be required.

(Prerequisite: MT 123)

\*\* A Texas Instruments model TI-83 (or 84) is required for MT 123, MT 125, and MT 251.

**Be sure to follow the course TIME LINE listed at the end of the syllabus.**

**Late work is NOT accepted as you have at least one week to complete all exams and other assignments.**

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**Internet access and an email account are required.** This is an Internet-based course. The course will be presented online via the Internet using the college distance education platform called Blackboard (Bb). You can reach the Bb site at [ccsnh.blackboard.com](https://ccsnh.blackboard.com)

**First Assignment - post an information file in the drop box in Bb containing your name, address, phone number and the name of your ISP (Internet Service Provider). Post this by Monday,1/25, to remain enrolled in the course.**

**File Names:** Example: John Doe is submitting the first assignment, (info. file). The file name is DoeInfo. Always name files with your last name followed by the file title. Example if John Doe was submitting exam I the file name would be: DoeExam1.

## **Course Purpose and Major Student - Centered Objectives:**

MT 251 is a fundamental course in the applications of statistics including descriptive statistics, probability distributions, hypothesis testing and basic linear regression. Students will learn how to do statistical analysis through a problem-solving approach. We will also use a TI-83(84) calculator and the software Excel.

Course Goals: Students will:

1. Learn to use mathematics to solve applied problems.
2. Read, write, speak and think more effectively with mathematical concepts.
3. Prepare for successful completion of subsequent related courses.
4. Build confidence using mathematics and concepts of statistics as problem solving tools

## **Instructional Methods:**

- Lecture Through the topic notes posted in Course Documents in Bb
- Discussion in the discussion board using peer/instructor discussions of HW questions and course concepts.

## **Course Assessments:**

- Exams
- Discussions

Grading System:

|                                    |     |
|------------------------------------|-----|
| Exams - 4 @ 100 points each =      | 400 |
| Discussions - 4 @ 50 points each = | 200 |

Total: 600 points

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## Grade Scale

| Letter | On 600 course points | Numerical  | Points |
|--------|----------------------|------------|--------|
| A      | 567-600              | 95-100     | 4.00   |
| A-     | 537-566              | 90-94      | 3.67   |
| B+     | 513-536              | 86-89      | 3.33   |
| B      | 495-512              | 83-85      | 3.00   |
| B-     | 477-494              | 80-82      | 2.67   |
| C+     | 453-476              | 76-79      | 2.33   |
| C      | 435-452              | 73-75      | 2.00   |
| C-     | 417-434              | 70-72      | 1.67   |
| D+     | 387-416              | 65-69      | 1.33   |
| D      | 357-386              | 60-64      | 1.00   |
| F      | <357                 | 00-59      | 0.00   |
| I      |                      | Incomplete |        |
| W      |                      | Withdrawn  |        |

### Course Policies and Procedures:

Attendance: You are expected to login at least 3 times per week to check for announcements and read postings in the Discussion Board.

### Academic Honesty:

Honesty is expected of all students. For further discussion, see the Student Handbook.

Course Web Site: <http://ccsnh.blackboard.com>

**This site will be developed throughout the term.**

A variety of information on resources, assignments, course topic notes, and web links will be provided. You will also be able to email students and the instructor through the site. Discussion forums will be available and **required**.

**Disclaimer Statement:** This outline is subject to reasonable modification by the instructor in response to the needs of the class. Changes will be communicated in a timely manner.

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## TIME LINE

| Week | Date<br>Monday | Items for MT251 ES Fall 2009  |
|------|----------------|---|
| 1    | 1/18           | Course begins.<br>Download and print syllabus.<br>Submit First Assignment described in the syllabus by 1/25, Monday |
| 2    | These          | Test 1 posted   |
| 3    |                |   |
| 4    | Dates          | Test 1 due and DQ1 due  |
| 5    |                |   |
| 6    | Will           | Test 2 posted   |
| 7    |                |   |
| 8    | Be             | Test 2 and DQ2 due  |
| 9    |                |   |
| 10   | Posted         | Test 3 posted   |
| 11   |                |   |
| 12   | For the        | Test 3 due and DQ 3 due   |
| 13   |                |   |
| 14   | Spring         | Test 4 posted   |
| 15   |                |   |
| 16   | Calendar       | Test 4 Due an DQ 4 due  |

**Please read the following notices regarding Academic Affairs.**

# Statistics

## ∞ ACADEMIC AFFAIRS NOTICES ∞ for inclusion with all course syllabi

### CLASSROOM ETIQUETTE

Academic integrity is of primary importance in the classroom. Both students and faculty are responsible for creating and maintaining an environment that supports effective instruction. It is therefore imperative that students and faculty demonstrate mutual respect. Inappropriate behavior in the classroom may compromise the learning and performance of all students present. Such inappropriate behaviors include, but are not limited to: late arrivals/early departures; loud or prolonged side conversations; use of cell phones, computers (other than for legitimate academic use), iPods (or similar devices), etc.; use of derogatory or vulgar language. All students are expected to abide by the Student Code of Conduct, published in the NHTI Student Handbook and are subject to sanctions as described therein for any violations.

### CIVIL RIGHTS/EQUITY ISSUES

#### (discrimination and harassment)

New Hampshire Technical Institute does not discriminate in the administration of its admissions, educational programs, activities, or employment practices on the basis of race, color, religion, national origin, age, sex, handicap, veteran status, sexual orientation, or marital status.

The college is sensitive to the fear and/or embarrassment an individual may experience in coming forward with a complaint regarding discrimination. The grievance reporting procedures outlined in the Student and Employee Handbooks are designed to provide a safe, confidential, and supportive environment in which an individual may discuss his/her concerns. Any NHTI student, employee, or visitor who has observed, is aware of, or has been a victim of discriminatory or harassing behavior while engaged in an NHTI-sponsored activity should report such behavior to the Civil Rights/Equity Coordinator (Eileen Fitzsimmons, North Hall Room N108, [efitzsimmons@ccsnh.edu](mailto:efitzsimmons@ccsnh.edu), 271-2583) or other Institute representative.

### THE LEARNING CENTER

The Learning Center provides free academic assistance to all NHTI students who would like to improve their grades. The Learning Center offers peer tutoring in most subjects; drop-in tutoring in writing, math, reading, computers, and A&P; Disabilities Services; study skills; and a computer lab. The Learning Center is located in the library. Call 271-7725 for more information.

### DISABILITIES SERVICES

Students with documented disabilities are eligible to receive reasonable accommodations that address individual learning needs. To receive services, students must contact the Coordinator of Disabilities Services, whose office is in the Learning Center. For details, please refer to the *Policies and Procedures Manual for Services Available for Students with Disabilities*, which is available in print and on the NHTI Web site ([www.nhti.edu](http://www.nhti.edu)).

Students with documented disabilities should be aware that simply noting in writing or in discussions with faculty that one's disability affects academic skills does NOT constitute formal disclosure of a disability. Once a student develops a Reasonable Accommodation Plan (RAP) with the Coordinator of Disabilities Services, that student is responsible for discussing the RAP with the instructor. Students should make requests for specific accommodations at least one week prior to when the accommodations are needed.

### CROSS-CULTURAL EDUCATION and ENGLISH-for SPEAKERS-of-OTHER-LANGUAGES (ESOL) SERVICES

The Director of Cross-Cultural Education and the ESOL Coordinator, located in Sweeney Hall, Room S301, work together to provide the tools necessary for successful integration of cultures, whether for academic or business purposes. Students may arrange to take the TOEFL exam or the institutional ESOL assessment test at NHTI to allow for appropriate course registration and ESOL course placement. ESOL courses are offered for college credit throughout the year. A gradual merging process allows students to take ESOL courses and courses required in the chosen program simultaneously. Individual tutoring in ESOL and other test-taking accommodations can be arranged through the ESOL Coordinator. Programs are also offered that assist members of the international and immigrant communities to better understand American culture and that help the community develop awareness and understanding of the growing diversity of our communities. Call 271-8928 for more information.

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