Course Syllabus

STAT 104-08: Elementary Statistics Fall 2021
Department of Mathematical Sciences

READ THIS SYLLABUS CAREFULLY. YOU ARE RESPONSIBLE FOR KNOWING THIS INFORMATION!

Prerequisite: MATH 101 (with a grade of C- or higher) or Math Placement Exam (Note: you are responsible to ensure that you possess the necessary prerequisites and de-registration may occur at any time if you lack the prerequisites)

Instructor: MS. N. Akhter
Office: Maria Sanford 211/219
Phone: (860) 832 2835
Email: nargisa@ccsu.edu

Class Meeting Times: Saturday: 8:00-10:40 AM; Ebenezer D. Bassett Hall 111
Office Hours: Friday: 11:20 AM – 12:05 PM
Saturday: 10:45 AM – 11:30 AM


Topics Covered: Chapters 1 through 9 of this textbook will be covered in this course. The course is divided into three Parts, as follows:
1. Introduction and Descriptive Statistics (Chapters 1 – 4)
2. Probability and Probability Distributions (Chapters 5 – 7)
3. Statistical Inference (Chapters 8 – 9)
See details in the tentative course schedule section.

Course Description: Intuitive treatment of some fundamental concepts involved in collecting, presenting, and analyzing data. Topics include frequency distributions, graphical presentations, measures of relative position, measures of variability, probability, probability distributions (binomial and normal).

Course Requirements: For this course, the expectation is at least 6 hours of work outside of class each week to complete the reading materials and problem sets. However, a general rule for any course is that you are expected to put in at least 2 hours of work outside of class for every “hour” (50 minutes) in class. You are expected to attend and participate in all the class secessions. If you are going to miss a class for a legitimate reason, please call or e-mail me in advance. You are responsible to complete satisfactorily all the reading material, the content of the text and lectures and all assignments whether you are attendance or not. You must complete at least all the odd numbered problems in the sections covered each week. It is essential for understanding the methodology and passing the tests. Note that you are also responsible for completing all even numbered problems. You are responsible to take all the quizzes and exams at their scheduled times. You are encouraged to work with others on these problems, and to utilize any resources available.

Evaluation: Minimum averages have been established for each of these grades:

A 93% A– 90% B+ 87% B 83% B– 80% C+ 77% C 73% C– 70% D+ 67% D 63% D– 60%
The final grade for the course will be based on the following weights:

In-class Problem Solving 10%
Online quizzes 20%
Exams I and II @ 20% each 40%
Comprehensive Final Exam 30%
Total 100%

**Attendance and Class Participation:** Classroom attendance is viewed as a very important part of the learning process. Students are advised that excessive absenteeism may result in the student being disbarred from the exams. So, attendance will be taken during the class session. **Attendance sheet will be given beginning of each lecture, and you will be responsible to sign this sheet, no exceptions.** In addition, you are encouraged to raise questions during class and try to answer questions that being asked during the class session.

As said earlier, regular class attendance is essential. Due to the nature of this class, continuous or excessive absences may result in poor performance in the course. **If the event that you must miss a class, please notify me in advance. Students are permitted to have maximum four unexcused and excused absences, including those due to minor emergencies and illnesses. After the 4th absence, you will be penalized as follows:** (i) I will subtract 1, 2, and 3 points from your overall course total for the 5th, 6th, and 7th absences, respectively; (ii) I will subtract 4 points from your overall course total for every absence beyond seven. For example, suppose your overall course total at the end of the semester is 90 (A- grade), and you have 6 absences. Then, your overall course total due to 2 additional absences will be 90-1-2=87, and your final letter grade will be a B+, instead of A-.

**In-class Problem Solving & Homework:** Weekly homework assignments will be posted on the Blackboard Learn. This will not be collected for grading. However, you must try to solve all assignments in time since there will be given a question from the homework assignments to solve in class. This problem will be graded. See the grading assessment section for the total weight for the problem solving in class. In addition, this will help in answering the questions in exams, please keep in mind that your grade will be determined by your exam scores, which you must do by yourself.

**Online Quizzes:** There will be weekly online quizzes during the semester. The material for quizzes will be announced one week prior to the quiz date. Note that all quizzes will be posted on the Blackboard Learn. Quizzes must be taken at any time before the due date – **no make-up quizzes will be given.** Note that, if you don't like your grade on the first attempt, then you may take it again (maximum two attempts). The higher of your two grades will be entered as your grade.

**Exams:** The two one-period exams will be given based on the material covered in Chapters (1-4) and (5-7) in the text. I will announce in advance for any changes in the exam material. All these exams will be closed book, **but you will be permitted to bring one sheet of formulas.** The schedules for both exams are as follows:

**EXAM-I: October 9th & EXAM-II: November 13th**

**Final Exam:** The final exam will be a 2-hour comprehensive exam based on the material covered in class from Chapter 1 through Chapter 9 in the text as scheduled by the Register as follows:

**December 11th, 8:00-10:00 AM**
**NO MAKE UPS WILL BE GIVEN:**

- If you miss the **quizzes** when they are due a **grade of zero** will be recorded for that quizzes.
- If you miss one of the **hour exams**, contact me immediately (preferably in advance). If **you have a good reason** for not being able to take the test as scheduled, I will substitute your final exam score for that test when computing your final grade. Otherwise, a **grade of zero** will be recorded for the missed exam. I will do this only for the first missed test. Subsequent missed tests will be recorded with a **grade of zero**.

**Important Dates:** See the academic calendar at [http://www.ccsu.edu/calendar/](http://www.ccsu.edu/calendar/).

**Withdrawal Policy:** After November 17 withdrawals are allowed only under **extenuating circumstances** and require approval of the course instructor, department chair, and dean of the School of Arts and Sciences.

**Blackboard Learn (BL):** BL will be used to supplement this course and weekly online quizzes. You will be able to access to BL through CCSU Central Pipeline. This will also be used to post course syllabus, your marks, solutions if need, distribute documents, and make other materials available to you. Make sure to activate your CCSU computer account. For help, call 832 1720.

**E-mail Policy:** Internal Vista email is preferable for this course. E-mail should be used only to provide me with information or to ask a question that requires a brief response – “What did I miss in class today?” does NOT account. For more lengthy discussions, you will be encouraged to raise questions during class or during office hours or make a separate appointment if necessary. Please note that when you send an e-mail, make sure you put the course number with section or class meeting times in the subject.

**Disability Statement:** Please contact me privately to discuss your specific needs if you believe you need course accommodations based on the impact of a disability, medical condition, or if you have emergency medical information to share. I will need a copy of the accommodation letter from Student Disability Services in order to arrange your class accommodations. **Contact Student Disability Services, room 201, Willard Hall, contact 860-832-1952 or email disabilityservices@ccsu.edu.** if you are not already registered with them. Student Disability Services maintains the confidential documentation of your disability and assists you in coordinating reasonable accommodations with your faculty.

**University Policies:** You are responsible for understanding and abiding by the University’s policy on academic integrity. Information on the policy may be found at [http://www.ccsu.edu/AcademicIntegrity/](http://www.ccsu.edu/AcademicIntegrity/). This policy is rigorously enforced by the Department of Mathematical Sciences.

**Resources Available:**

1. If you need help, take advantage of your instructor's office hours. Do not wait until just before the first test to do so.
2. **The Learning Center is in Room 016, Carroll Hall.** Free tutoring is available in the Learning Center, and at other locations on campus. A schedule for hours the Center is open will be posted soon after the beginning of the semester.
3. Form a study group with other students in your section. Explaining solutions to homework problems to each other is a good way to learn.
4. **A list of private tutors for hire is available in the math department office, Room 128 Marcus White, 832-2835.**
**Course Schedule:** The tentative course schedule is given below.

<table>
<thead>
<tr>
<th>Week</th>
<th>Start Date</th>
<th>Topics</th>
<th>Readings</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug 23</td>
<td>Basic Ideas</td>
<td>Chapter 1</td>
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<tr>
<td>2</td>
<td>Aug 30</td>
<td>Graphical Summaries of Data</td>
<td>Chapter 2</td>
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<td>3</td>
<td>Sep 6</td>
<td>Numerical Summaries of Data</td>
<td>Chapter 3</td>
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<tr>
<td>4</td>
<td>Sep 13</td>
<td>Numerical Summaries of Data</td>
<td>Chapter 3</td>
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<tr>
<td>5</td>
<td>Sep 20</td>
<td>Summarizing Bivariate Data</td>
<td>Chapter 4</td>
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<td>6</td>
<td>Sep 27</td>
<td>Probability</td>
<td>Chapter 5</td>
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<td>7</td>
<td>Oct 4</td>
<td>Probability &amp; Exam-I (October 9th)</td>
<td>Chapter 5 &amp; Ex. (Chapters 1-4)</td>
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<tr>
<td>8</td>
<td>Oct 11</td>
<td>Probability</td>
<td>Chapter 5</td>
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<tr>
<td>9</td>
<td>Oct 18</td>
<td>Discrete Probability Distributions</td>
<td>Chapter 6</td>
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<td>10</td>
<td>Oct 25</td>
<td>Normal Distribution</td>
<td>Chapter 6</td>
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<tr>
<td>11</td>
<td>Nov 1</td>
<td>Normal Distribution</td>
<td>Chapter 7</td>
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<tr>
<td>12</td>
<td>Nov 8</td>
<td>Exam-II (November 13th)</td>
<td>Chapter 7 &amp; Ex. (Chapter 5-7)</td>
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<td>13</td>
<td>Nov 15</td>
<td>Confidence Intervals</td>
<td>Chapter 8</td>
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<tr>
<td>14</td>
<td>Nov 22</td>
<td>Confidence Intervals</td>
<td>Chapter 8</td>
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<td><strong>Thanksgiving Recess--- No Classes</strong></td>
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<tr>
<td>15</td>
<td>Nov 29</td>
<td>Hypothesis Testing</td>
<td>Chapter 9</td>
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<tr>
<td>16</td>
<td>Dec 6</td>
<td>Hypothesis Testing &amp; Review</td>
<td>Chapter 9</td>
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<td></td>
<td><strong>Final Exam</strong></td>
<td>Chapters 1-9</td>
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<td><strong>December 11th, 8:00-10:00 AM</strong></td>
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**Cheating:** Cheating on any part of an exam will result in an automatic F in the course. Cheating includes, but is not limited to, receiving assistance from a class member or a non-class member on an exam and assisting a class member on an exam.

**Disclaimer:** The instructor reserves the right to adjust the scope of the course, including number and timing of exams, as necessary.

**Title IX Statements:** Central Connecticut State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon age; ancestry, color; gender identity and expression; intellectual disability; learning disability; mental disorder; physical disability; marital status, national origin; race; religious creed; sex, (including pregnancy, transgender status, sexual harassment and sexual assault); sexual orientation; or any other status protected by federal or state laws. Any student who has concerns about this should contact the Office of Diversity and Equity (ODE) at 860-832-1652, Student Conduct (860-832-1667) or Student Affairs at 860-832-1601, or his/her faculty member. The ODE is in Davidson Hall, Room 102. The OEI is located on the main floor of Davidson Hall, room 119.