MATH 2063 – Introductory Statistics  
**Hours Credit:** 3 hours  
**Prerequisites:** MATH 1001 or MATH 1111

**COURSE INSTRUCTOR**  
**Instructor:** Nathan Rehfuss  
**Newnan Office:** 116 Newnan Center  
**Carrollton Office:** 111A Boyd Hall  
**Email:** nrehfuss@westga.edu

**OFFICE HOURS**  
**Newnan (116 Newnan Center):** Wednesday, 12:30 pm-2:30 pm  
**Carrollton (111A Boyd):** Tuesday, 9:15 am-11:10 am and 12:45 pm-1:50 pm

Please feel free to drop by during any of the above times; you do not need an appointment. If you’d like to meet with me at any other time, email me and we can set up a meeting.

**REQUIRED COURSE MATERIALS**  
**TEXT:** *Discovering Statistics (3rd edition), by Daniel T Larose (W.H. Freeman and Company)*

I strongly recommend you purchase a scientific or graphing calculator. The TI-30, TI 36, Casio 115, and Casio 991 are good contenders in the budget range. The TI-84 is the strongest graphing calculator allowed. The TI-89 and Nspire are **not** allowed on tests at UWG, nor is any other calculator with a computer algebra system. You can check out calculators from Ingram Library on the Carrollton campus if necessary.

We will use Microsoft Excel for some computer applications. Any version of Excel should suffice. Excel is installed on all school computers.

**Course Description** A noncalculus-based introduction to methods of descriptive statistics, probability, discrete and continuous distributions, and other fundamental concepts of statistics.

**Learning Outcomes**  
Upon successful completion of this course, the students will know how to:  
1. properly collect data,  
2. describe and analyze that data,  
3. make inferences about the population under study based on the sample data collected.  
4. the students will also be aware of and able to interpret the statistics with which we are bombarded on a daily basis in the print media, on radio, and on television to help students make informed decisions about their lives.
COURSE OUTLINE

Topics: The following sections of the textbook will be covered:

Section

1.2 An Introduction to Statistics
1.3 Gathering Data
2.1 Graphs and Tables for Categorical Data
2.2 Graphs and Tables for Quantitative Data
3.1 Measures of Center
3.2 Measures of Variability
4.1 Scatterplots and Correlation
4.2 Introduction to Regression
5.1 Introducing Probability
5.2 Combining Events
5.3 Conditional Probability
5.4 Counting Methods
6.1 Discrete Random Variables
6.2 Binomial Probability Distribution
6.4 Continuous Random Variables and the Normal Probability Distribution
6.5 Standard Normal Distribution
6.6 Applications of the Normal Distribution
7.1 Central Limit Theorem for Means
8.1 Z Interval for the Population Mean
8.2 t Interval for the Population Mean
8.3 Z Interval for a Population Proportion
9.1 Introduction to Hypothesis Testing
9.2 Z Test for the Population Mean: Critical-Value Method
9.4 t Test for the Population Mean
9.5 Z Test for the Population Proportion

COURSE ASSESSMENT

Your homework for this class is online at myopenmath.com. Create an account, then enter course code 62491. Leave the Enrollment Key blank.

You can earn up to 5% extra credit by studying in the Math Tutoring Center at a rate of 0.5% per hour. Print a tutoring hours log from Courseden and have your tutor sign it after each section, then turn it in to me any time up until the final exam.

You will take four unit tests this semester. I will drop the lowest of your four unit test grades. These tests are free response.

The final exam is cumulative.
ASSESSMENT GRADING:

Homework: 30%
Unit Tests: 45%
Final: 25%

Grading Scale:
[89%, ∞): A
[79%, 89%): B
[69%, 79%): C
[59%, 69%): D
[0%, 59%): F

OTHER COURSE INFORMATION

If you know you cannot attend an exam, contact me at least 48 hours in advance and we may be able to make alternate arrangements. Otherwise no make-up tests will be given.

To ensure confidentiality and timely response, all course-related email must originate from a westga.edu account and be addressed to my westga.edu email. **Do not** message me on CourseDen or MyOpenMath – I will not see these messages.

COURSE POLICIES AND INFORMATION

University Policies and Academic Support
Please carefully review the following Common Language for all university course syllabi at the link:

https://www.westga.edu/UWGSyllabusPolicies/

It contains important material pertaining to university policies and responsibilities. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

Academic Honesty
Quizzes and exams are closed-book, closed note, individual assessments. Any attempt to cheat using notes, books, or communication with other students or outside sources will result in a grade of 0 and a report to school administration. Any use of a phone or smart device during an exam is considered cheating. Cheating a second time will result in failing the course. Cheating on the final exam will result in failing the course.

You are encouraged to work with other students on homework and test review.

Definitions of academic dishonesty are defined in the student handbook: www.westga.edu/handbook/

Disabilities Act/Accessibility for the Course
If you are a student whom is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please notify me and provide me with a copy of your packet from Student Services. The university will provide you with resources for any audio/visual needs that you may have with the learning management system or course content.
Please contact UWG Accessibility Services for more information.

**Student Conduct**
You are expected to abide by the guidelines detailed in the university catalog. Respect and courtesy are required of all students while in the classroom. **Silence all electronic devices** and respect your classmates by refraining from activities that might distract them.

**Resources for Success**
The University makes several additional resources available to you to help ensure you succeed this semester.

**Center for Academic Success** – Call 678-839-6280 or email cas@westga.edu to make an appointment. The CAS offers course-specific tutoring as well as help with studying skills.

**Math Tutoring Center** – Located in Boyd 205, the MTC is a computer lab staffed with tutors who can help you study or do homework. You do not need an appointment – just walk in and swipe your student ID. The MTC is open 9AM-7PM M-Th and 9AM-3PM Fri. Bring a MTC attendance form and have a tutor sign it to receive up to 5% extra credit in this class. You will receive 0.5% extra credit for each hour spent working in the MTC.

**Counseling Center** – If you are affected by stress, depression, anxiety, or other mental health concerns, UWG has counselors available to help. You can visit 123 Row Hall during business hours or call 678-839-6428 at any time for help.

**IMPORTANT DATES:**

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<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>First Day of Class</td>
<td>Monday, Jan. 6</td>
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<tr>
<td>Drop Ends</td>
<td>Friday, Jan. 10</td>
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<tr>
<td>Last Day to Withdraw with a W</td>
<td>Saturday, Feb. 28</td>
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<tr>
<td>Last Day of Class</td>
<td>Monday, April 27</td>
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<tr>
<td>Final Exam</td>
<td>Wednesday, April 29, 8:00 am-10:00 am</td>
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| No classes                           | Monday, March 16 – Friday, March 20 (Spring Break)  
        | Monday, Jan. 20 (Martin Luther King Jr. Day)  |

The following unit test dates are tentative and subject to change:

<table>
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<tr>
<th>Test</th>
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<tr>
<td>1</td>
<td>Wednesday, Feb. 5</td>
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<td>2</td>
<td>Wednesday, Feb. 26</td>
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<td>3</td>
<td>Monday, March 30</td>
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<td>4</td>
<td>Wednesday, April 22</td>
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