School of Science and Health Professions

Math 1401-102
CRN:80297
Fall 2025

> **The University System of Georgia (USG) institutions requires all faculty, staff, students, and visitors to wear an appropriate face covering while inside campus facilities/buildings where six feet social distancing may not always be possible.**

9/8- 12/6

Instructor Information
Semester: Fall 205
Instructor: Gyuheui Choi
Office Location: Science Lecture Building room 171
Office telephone: 404-985-7375(Cell)
Class meeting: Building 100-Room 223
Class 3:00pm-4:50pm MW
Office Hours 10:30 am- 3:00 pm Wednesday
    9:00 am-11:00 am Tuesday, 9:00 am-12:30 pm Thursday_____
Online office hours: email me at gchoi@atlm.edu
Email address: gchoi@atlm.edu

*Note: Please use the internal course e-mail for general correspondence. I provide my external e-mail address for emergencies only. I cannot answer questions, accept assignments, or discuss grades via external e-mail so please use it for emergencies only.

Response Time: Unless you are notified otherwise, I will work to respond to all student questions and emails within 24 hours during the week and within 48 hours during the weekend.

Course Delivery Method:
This section of Introductory to Statistics Math1401 is **in-person.**

*Note: This course may transition to an online format at any point in the semester in compliance with the University System of Georgia and CDC guidelines in order to ensure the safety of our students and faculty.

Important Dates
Holiday(s): Sept 1, Nov 27- 28
Attendance Verification: 9/15 - 17
Last Day to Reinstate: 9/17
Last Day to Withdraw without Penalty: Oct 27
Last Day of Class: Dec 6
Final Exam: Dec 9 - 11
Registration Start Date: Oct 13

Please read this syllabus carefully, and check with the instructor if you have any questions. Students are responsible for the information contained in this syllabus.

Credit Hours: 3

Course Description:
This course is non-calculus introductory statistics. Topics include methods for describing sets of data, including descriptive statistics and histograms. Simple linear regression. Probability of discrete and continuous random variables, including the binomial and normal random variables. Sampling distributions, including the Central Limit Theorem, Hypothesis testing and Confidence intervals.

Math 1401 Introduction to Statistics
Required Textbooks and Additional Material
Original Materials:
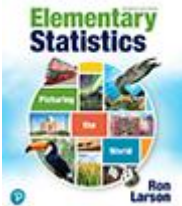
Elementary Statistics: Picturing the World 8th Edition
Author(s): Larson, Ron
Textbook ISBN-13: 9780137493500

To register for Intro to Statistics:
1. Go to https://mlm.pearson.com/enrollment/choi73702
2. Sign in with your Pearson student account or create your account. For Instructors creating a Student account, do not use your instructor credentials.

3. Select any available access option, if asked. » Enter a prepaid access code that came with your textbook or from the bookstore. » Buy instant access using a credit card or PayPal. » Select Get temporary access without payment.
4. Select Go to my course.
5. Select Intro to Statistics from My Courses. If you contact Pearson Support, give them the course ID: choi73702

Calculator:

Use of calculators is allowed for the Exams. TI - 83 or better. No cell phone is allowed as a calculator during tests and final exam. (Click on link to learn TI-83 for statistical calculation)
https://www.youtube.com/watch?v=xsXmSy59cpU&list=PLiuxxNbKiuJ7Io4fFFpqhJdp0-aL6Yhkn)

Also, about Calculators, go to http://mathbits.com/MathBits/TISection/Openpage.htm

General Education Learning Outcome: N/A

Program Learning Outcome: N/A

GENERAL LEARNING OBJECTIVES

The following General Education Quantitative/Mathematical Learning Outcomes pertain to this class:
Students successfully completing MATH 1401 should be able to:
know how to properly collect data, how to describe and analyze that data, and make inferences about the population under study based on the sample data collected. The students will also be aware of and able to interpret the statistics related to their real-life experiences. These will be assessed through specific items on in-class exams. The course will incorporate lecture, discussions, problem-solving, and group activities.

The Nature of Statistics
Students should show proficiency in
Understanding and explaining statistical terms

Introduction to Statistics

Describing Data Using Graphs and Tables
Students should show proficiency in
1. Identifying Graphs and Tables for Categorical Data
2. Identifying Graphs and Tables for Quantitative Data

Descriptive Statistics
Describing Data Numerically
Students should show proficiency in

1. Identifying and computing measures of Center
2. Identifying and computing measures of Variability

Correlation and Regression
Students should show proficiency in
1. Identifying and computing Scatterplots and Correlation
2. Identifying and computing Regression

Probability
Students should show proficiency in
1. Understanding and computing Probability
2. Understanding and computing problems involving Combining Events
3. Understanding and computing Conditional Probability
4. Understanding and solving problems using Counting Methods

Discrete Probability Distributions
Students should show proficiency in
1. Identifying and using Discrete Random Variables
2. Understanding, identifying, and computing a variety of measures involving the
3. Binomial Probability
4. Understanding Continuous Random Variables and computing the Normal Probability
5. Distribution problems
6. Understanding and computing applications of Normal Distribution
7. Understanding and computing Normal Approximation to the Binomial Probability
8. Distribution

Sampling Normal Distributions
Students should show proficiency in
Computing and using Central Limit Theorem for Means

Confidence Intervals
Students should show proficiency in
1. Understanding and Computing Z Interval for the Population Mean
2. Understanding and Computing t Interval for the Population Mean
3. Understanding and Computing Z Interval for a Population Proportion

Hypothesis Testing
Students should show proficiency in
1. Understanding and Computing Hypothesis Testing
2. Understanding and Computing Z Test for the Population Mean: Critical-Value Method
3. Understanding and Computing t Test for the Population Mean
4. Understanding and Computing Z Test for the Population Proportion

5. Understanding and Computing Inference for Mean Difference-Dependent Samples
6. **Understanding and Computing Inference for Two Independent Mean**

Prerequisite(s):
Prerequisite: A grade of C or better in MATH 1101 or 1111

All the Homework Assignments, Quizzes, and Tests will be facilitated in MyMahtLab.

Chapters Covered
The following chapters will be covered in this course:

- **Chapter 2: Descriptive Statistics**
- **Chapter 3: Probability**
- **Chapter 4: Discrete Probability Distributions**
- **Chapter 5: Normal Probability Distributions**
- **Chapter 6: Confidence Interval**
- **Chapter 7: Hypothesis Testing with One Sample**

Computer Hardware & Software Requirements:
One of the challenges many encounter with enrolling in and completing an online course is the accessibility to the required and recommended software and hardware. Different institutions, and even different courses within the same institution, have varying technology requirements. Check your hardware and software systems to determine its compatibility with the online course you have selected.

Minimum hardware recommendations to take online courses:

D2L System Requirement
Internet Connection:
· Ethernet Network required
· Wireless Network required
Operating System Requirements
- PC:
   o   Compatible Operating System:
   o   Web Browser: Firefox, Chrome
- Mac:
   o   Compatible Operating System:
   o   Web Browser: Firefox, Chrome, Safari
Hardware requirements:
Minimum Technical Specifications for Hardware:
- A processor of 2GHz or faster
- 4GB RAM or greater
- 500 GB of Hard Drive space
- Monitor and video card with a minimum resolution of 1024x768
- Keyboard and mouse

Minimum Technical Specifications for Computer Peripherals:
- Speakers
- Headphones
- Microphone
- Webcam

Software requirements:
Browser Requirements/Supported Browsers
Compatible Browsers:
- Apple Safari - https://support.apple.com/downloads/safari (Mac)
- Google Chrome - https://www.google.com/chrome/ (Mac or PC)
- Mozilla Firefox - https://www.mozilla.org/en-US/firefox/new/ (Mac or PC)

Application Software
- Microsoft Office 2016 (Word, Excel, PowerPoint) (Mac or PC)
- Adobe Reader - https://get.adobe.com/reader/

Plug-ins
- Java - https://www.java.com/en/download/
- Adobe Flash Player - https://get.adobe.com/flashplayer/
- Windows Media Player - https://www.microsoft.com/en-us/download/details.aspx?id=20426
- Apple QuickTime - https://support.apple.com/downloads/%2523quicktime
- Microsoft Silverlight - https://www.microsoft.com/getsilverlight/Get-Started/Install/Default

Accessibility: Wi-Fi is also available for use in the campus parking lots.

American Disability Act (ADA) Statement:
Atlanta Metropolitan College is committed to providing support for all students and making their college experience an enriching opportunity. In compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, The Department/Office of Counseling and Accessibility Services, located in the Student Services & Success Center, building 650-Suite 252, oversees the coordination of services for students with documented disabilities. The Coordinator of Disability Services collaborates with faculty and staff to offer provisions for reasonable accommodations to students who meet the requirements.
It is the policy and practice of AMSC to make all Web information accessible to students with disabilities. If you, as a student with a disability, have difficulty accessing any part of the course materials for this class, please notify the instructor immediately.
Accommodations cannot be provided until a reasonable accommodation plan is in place. To the greatest extent possible, all college representatives shall observe confidentiality.

Office of Counseling and Accessibility Services:
The Office of Counseling and Accessibility Services operates under the Americans with Disabilities Act (ADA) laws in order to assist in leveling the playing field for students who have disabilities with those who do not.

The amended ADA, otherwise known as ADAAAA defines "disability" as a physical or mental impairment that substantially limits one or more major life activities. If you feel that you have a disability or impairment that may limit your academic functioning, please contact Dr. Dorothy Williams, the Coordinator of Counseling and Accessibility Services at 404-756-4016 or at https://www.atlm.edu/students/counseling-and-disability-services.aspx.
The Coordinator of Counseling and Accessibility Services reviews all accommodation requests. In order to receive accommodations, the student's illness or disability must be verified in writing

by a physician, psychiatrist, or some other health care provider or specialist. Students choosing to access disability support services should contact the Coordinator as soon as possible after acceptance to AMSC. Please be aware that late notifications may result in complications for establishing accommodations in a timely fashion.

Withdrawal:

- **Withdrawal from a course is solely the responsibility of the student.** Instructors will not initiate student withdrawals. A student who wished to withdraw from a course **MUST** submit a completed Withdrawal Form (Schedule Reductions Form) to the Registrar's Office before mid-term in order to receive a grade of **"W"** for the course.

- Students are ultimately responsible for ensuring that the course(s) in which they enroll are included in the approved degree plan and program map for their program of study. Students **MUST** periodically check their enrollment status in this course during the semester. The student is responsible for determining changes, if any in enrollment status and taking necessary steps (e.g. pursing re-instatement in this course) following those outlined in the AMSC catalog.

Attendance Policy:

- Attendance and participation discussions are required.
- Students are required to log into the class regularly.
- There are no make-up exams.

Time Commitment:

Students can expect to spend 3 hours per week on this course. Consult the course calendar and your instructor to be sure you are on schedule, keeping up with the material and taking quizzes on time.
Expectations for this course as follows:

- Log in regularly to check messages from your instructor and other students.
- Check the course calendar, D2L email, and AMSC email regularly.
- Read, study, and complete all assignments for each lesson by the due date.

Conduct

You are expected to refrain from profanity, crudeness, and slurs of any kind. You are also expected to treat your fellow students and instructor just as you would in the traditional classroom. Proper conduct applies to all forms of communication in the course. The penalty for not complying with these guidelines is removal from the course.

Late Policy:

Late Assignments: Assignments turned in after the due date and time will be subject to a **10** point decrease of the earned grade.
Late Quizzes: Quizzes completed after the due date and time will be subject to a **10** point decrease of the earned grade.
Late Discussions: Discussions posted after the due date and time will be subject to a **10** point decrease of the earned grade.

Enrollment Status:

Students are ultimately responsible for ensuring that the course(s) in which they enroll are included in the approved degree plan and program map for their program of study. Students **must** periodically check their enrollment status in this course during the semester. The student is

responsible for determining changes, if any in enrollment status and taking necessary steps (e.g. pursuing re-instatement in this course) following those outlined in the AMSC catalog.

Class Cancellation:
- Procedure regarding long-term emergency closure of the college (attendance policy): In the event of an emergency that forces the college to close for an extended period, students MUST contact the instructor of this class within 48 hours using the contact information (e.g., email address in BrightSpace/D2L) on the syllabus to obtain directions for continuing the course. The instructor will provide directions for the transmission and submission of course assignments and course assessments, including due dates.
- The student is responsible for submitting valid, accurate contact information, including an active AMSC email address to the instructor by the end of the first week of the course. Students can obtain an Atlanta Metropolitan State College Student email address in the Academic Support Center on the third floor of the Library Building.
- If the instructor for the course cannot be reached within the specified period (within 48 hours), the Dean of the School responsible for the course can be reached at the email address posted on the college's website.

Abandoning a Course: Abandoning a course should be avoided at all cost. Abandoning a course instead of following official drop procedures will result in a grade of ―F at the end of the course. It is the student's responsibility to initiate and complete the withdrawal process.

Academic Honesty:
- Only the epitome of professionalism is expected of each student. Cheating or the abetment of cheating is not tolerated
  - Per page 91-93 of the 2019-2020 Atlanta Metropolitan State College Catalogue the Penalties for Academic Misconduct states:
    - In cases where a student is found guilty of cheating or exhibiting academic misconduct involving an instructor-generated assignment or examination, the instructor may impose a penalty.
    - Types of penalties may include, but are not limited to, the instructor assigning a grade of "F" for the assignment, the instructor not accepting the work, the student being assigned additional work, or the student receiving a grade reduction for the assignment.
    - **The maximum penalty the instructor may impose is a grade of "F" for the course.**

Methods of Assessments:
- **Reading Assignments:** Students are expected to read assigned textbook pages/chapters prior to the beginning of class and before the material is covered in lecture**. Be sure that you understand all diagrams and read captions under pictures.** It will be to your benefit to stay organized and don't get behind.
- The purpose of examinations is to determine how well students have mastered the material. There will be **five (4) unit exams** in addition to a final exam. The exams will cover the material presented in the lecture and via audio visual resources.

- *All exams must be taken on the assigned date and at the assigned time.* The other classroom assignments will include end of chapter review questions and problems.
- Quizzes will be given periodically to determine if the assigned reading is being done. **They are normally given at the beginning of class, and at the instructor's discretion.** These quizzes may be announced or unannounced. They will cover either material previously discussed or materials, which the students should have read. All quiz grades will be averaged and will equal a major exam grade. A quiz will be given approximately **ONCE** per week. Missed quizzes **CANNOT** be made up.
- Students will complete critical thinking exercises. Students will additionally participate in class discussions demonstrating knowledge learned from these exercises. Assignments **WILL NOT** be accepted after due date and a grade of **"0"** will be given for that assignment.
- Proctored Final Exam.

<u>**Grading and Standards**</u>

Grade Evaluation

COURSE OUTLINE

Week	Chapter/ Sections
1-2 3	2.1, 2.2, 2.3, 2.4 Exam 1 3.1, 3.2
4	3.3,3.4
5	Exam 2 4.1,4.2
6-7	5.1, 5.2, 5.3, 5.4 Exam 3
8,9	6.1,6.2 6.3, 7.1, 7.2
10	7.2, 7.3, 7.4 Exam 4
11	Review

Course Timeline may change as needed.

GRADE ASSESSMENT

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The final grade will be based on the following criteria:

• **Grade Computation**: MyMathLab Homework = 15 % MyMathLab Quizzes = 10% Four Exams Average = 60% Comprehensive Final Exam = 15% **Note:** The score on the final exam will replace the lowest exam score from the exams.	• **The Grading Scale:** **A** = 90% + **B** = 80-89% **C** = 70-79% **D** = 60-69% **F** = Below 60%

Missed Exams: Make-up exams will be given only with the permission of the instructor. Documentation is required for an <u>excused absence</u> from an exam, otherwise a score of "0" will be awarded. Not being ready for an exam is not a valid reason for a make-up exam. Make up exam should be taken within one week of scheduled exam date otherwise a grade of Zero will be given.

Each student's final grade is based on points earned during the semester on examinations, quizzes and assignments, class participation, etc.

<u>**Grading Scale:**</u>

> 100% - 90% of maximum points awarded = **A**
> 89% - 80% of maximum points awarded = **B**
> 79% - 70% of maximum points awarded = **C**
> 69% - 60% of maximum points awarded = **D**
> Below 60% of maximum points awarded = **F**

Problems related to the grading policy for this course or other course management concerns should be first brought to the attention of the professor for the course. However, a resolution of unsettled problems or concerns may be pursued by following the grievance procedures outlined in the AMSC Student Handbook and the Academic Catalog.

Grade turnaround time:
All assignments and assessments will be graded within one week's time. The instructor will provide comments along with grade as necessary for feedback.

<u>**Other:**</u> (Instructor-specific instructions)

Frequently Asked Questions and Helpful Links

I need:	LINK

	AI Resouces	Students must indicate an AI resource in case it is applied or used for the assignments.

D2L/BrightSpace Student Orientation	https://www.atlm.edu/downloads/advisement/Brochure%20-%20Student%20Orientation%20to%20Desire2Learn.pdf
For help with password and other technical support issues	https://d2lhelp.view.usg.edu/
ADA Accommodations	https://www.atlm.edu/students/counseling-and-disability-services.aspx
Academic Support and Advising	https://www.atlm.edu/academics/CAAS.aspx
To Make a Student Complaint	https://atlm-advocate.symplicity.com/public_report/index.php/pid810499?
To Make a Grade Appeal	https://www.atlm.edu/downloads/advisement/CAAS%20Grade%20Appeal%20Brochure.pdf
To Withdraw from a Course	https://www.atlm.edu/downloads/Registrars_Office_Forms/Withdrawal%20Form%202018.pdf
To Request a Hardship Withdrawal	https://www.atlm.edu/downloads/advisement/CAAS%20Hardship%20Withdrawal%20Application%20-%20June%202017.pdf
To Know the Campus Carry/HB 280 Policy	https://www.usg.edu/hb280/additional_information

Disclaimer: Information contained in this syllabus and schedule was, to the best knowledge of the instructor, considered correct and complete when distributed for use at the beginning of the semester. This syllabus should be considered only a guide for instructor and students, not a

formal contract between Atlanta Metropolitan State College and any student. The instructor reserves the right, acting within the policies and procedures of AMSC, to make changes in course content or instructional techniques.