



Fall, 2024

Math 1001 LS4, Quantitative Skills & Reasoning, 3 Credit Hours

M,W 12:30PM-1:45PM, IC 220/F2F

Instructor Information	
Instructor:	Dr. ZABDAWI
Phone:	(678) 359-5839
Email:	mzabdawi@gordonstate.edu
Office:	IC 234
Office Hours:	M,W 9:30AM-11:00AM IC 234 T,R 12:30PM-2:00PM in Teams M,W 4:30PM-5:30PM

Course Description:

Math 1001 LS4: Quantitative Skills and Reasoning

Credit Hours: (3-0-3)

This course places quantitative skills and reasoning in the context of experiences that students will be likely to encounter. It emphasizes processing information in context from a variety of representations, understanding of both the information and the processing, and understanding which conclusions can be reasonably determined. Students must provide a graphing calculator.

Course Student Learning Objectives (SLOs):

Upon completion of the course, student should:

1. Use knowledge of logical fallacies, truth tables, and Venn diagrams to determine the soundness of logical arguments.
2. Determine the validity of a statistical study and what information can be inferred from it.
3. Use and interpret descriptive statistics in numerical and graphical forms.
4. Solve basic applied problems involving unit conversion and probability.
5. Interpret and apply linear, quadratic, and exponential models, including applications involving financial literacy.

Course Prerequisites:

Prerequisite: Exemption from or Completion of Learning Support Mathematics

CORE IMPACTS Objectives:

This is a Core IMPACTS course that is part of the Mathematics area.

Core IMPACTS refer to the core curriculum, which provides students with essential knowledge in foundational academic areas. This course will help students master course content and support students' broad academic and career goals.

This course should direct students toward a broad Orienting Question:

- How do I measure the world?

Completion of this course should enable students to meet the following Learning Outcome:

- Students will apply mathematical and computational knowledge to interpret, evaluate, and communicate quantitative information using verbal, numerical, graphical, or symbolic forms.

Course content, activities, and exercises in this course should help students develop the following Career-Ready Competencies:

- Information Literacy
- Inquiry and Analysis
- Problem-Solving

Course Communication

My preferred method of communication is GSC e-mail. My e-mail address is mzabdawi@gordonstate.edu. I generally respond to e-mails within 24 hours during the week and 48 hours on the weekend. In your e-mails, please let me know which class you are in by including the class time and days.

For general course announcements, I will use the Announcement feature in D2L.

Course Format:

MODE OF DELIVERY: This is a F2F course that meets every M,W 12:30PM-1:45PM in IC 220.

Last Day to Withdraw with a "W" (by 4:00 p.m.) Oct 11 (F).

Course Resources:

- No textbook is required because E-text is already integrated in Pearson's MyMathLab in D2L
- The TI-83 or TI-84 is required for this course.

Course Assessments:

- Grades will be computed based on any combination of the following:

ASSIGNMENTS	POINTS OR % OF GRADE
HW	20%
Average of 4 Exams	55%
Comprehensive proctored FE	25%
Students who fail to take the proctored FE will get an automatic WF for the course.	

The course points fall: **90-100 (A) plus scoring at least 75% on the proctored FE**, 80-89 (B), 70-79 (C), 60-69 (D), and 59 and below (F).

You can expect to access the course materials and grades via our course in MyCourses (Brightspace by D2L). Students should check this MyCourses (Brightspace by D2L) course daily, as changes will always be announced and recorded on the course site.

Late Work:

- Late submission of HW and exams will be accepted but with 20% penalty for late submission. **The penalty will be waived for legitimate documented excuse.**

Final Exam Details:

- **The proctored final exam is comprehensive** and will be given during the week of [Dec.5-11]. The date and time of the final exam is set by the registrar and will be posted at midterms. The exam schedule cannot be changed at the convenience of the student. You should not plan to be absent during that week. A make-up final exam will only be given in cases of a verifiable excused absence. **Students who fail to take the proctored FE will get an automatic WF for the course.**

College-wide Statements:

- ATTENDANCE POLICY
 - **THERE IS NO CREDIT FOR ATTENDANCE, BUT:**
 - **WHETHER YOU ARE A REGULAR STUDENT OR A VETERAN, RECEIVING HOPE, PELL GRANT OR ANY KIND OF FINANCIAL AID, ATTENDANCE WILL BE RECORDED FOR EVERY MEETING FOR F2F AND WEEKLY FOR ONLINE COURSES, AND SEVERE ADVERSE CONSEQUENCES WILL ENSUE FOR UNDOCUMENTED CONSECUTIVE ABSENCES CONCERNING YOUR FINANCIAL AID. FOR MORE DETAILS CONCERNING USG ATTENDANCE POLICY PLEASE VISIT THIS WEBPAGE:**
 - [HTTPS://WWW.GORDONSTATE.EDU/DEPARTMENTS/ENROLLMENT-SERVICES-AND-MARKETING/REGISTRAR/CLASS-ATTENDANCE-ENROLLMENT-VERIFICATION-POLICY/INDEX.HTML](https://www.gordonstate.edu/departments/enrollment-services-and-marketing/registrar/class-attendance-enrollment-verification-policy/index.html)
 - Students who are absent from classes bear the responsibility of notifying their faculty that they will be absent and keeping up with class assignments in conjunction with Faculty provisions in the course syllabus.
- TECHNOLOGY COVENANT
 - Technology will be used to deliver content, provide resources, assess learning, and facilitate interaction, both within the classroom and in the larger learning community. This covenant provides a general guideline for the course. I reserve the right to make periodic and/or necessary changes to the covenant, including technology use and communication channels, to accommodate the needs of the class as a whole and fulfill the goals of the course.

- STANDARDS OF ACADEMIC CONDUCT AND STUDENT INTEGRITY
 - The College expects academic honesty from students and instructors. Students have the obligation both to themselves and to the College to make the appropriate College representative aware of instances of academic deceit or dishonesty. Generally, this entails making the situation known to the instructor, and if needed, to the Dean of the student's school. Likewise, faculty members are responsible for enforcing the stated academic standards of the College. Instances of violating academic standards might include, but are not necessarily limited to, the situations outlined below:
 - **Cheating** – Receiving or providing unapproved help in any academic task, test or treatise. Cheating includes the attempt to use or the actual use of any unauthorized information, educational material, or learning aid in a test or assignment. Cheating includes multiple submission of any academic exercise more than once for credit without prior authorization and approval of the instructor.
 - **Plagiarism** is presenting someone else's work as though it is your own. In an academic community the use of words ideas or discoveries of another person without explicit, formal acknowledgement constitutes an act of theft or plagiarism. To avoid the charge of plagiarism, students must engage in standard academic practices such as putting quotation marks around words that are not their own, employing the appropriate documentation or citation and including a formal acknowledgement of the source in the proper format. Students are expected to use the proper APA format for citations. An online APA manual can be found at: <http://www.dianahacker.com/resdoc/>.
 - **Fabrication** involves inventing or falsifying any data, information, or records.
 - **Obstruction** is impeding the ability of another student to perform assigned work.
 - **Collusion** comprises assisting any of the above situations or performing work that another student presents as his or her own.
 - **Use of AI** will be determined by the Faculty member.
- **Title IX & Mandatory Reporter Information:** Gordon State College is committed to providing an environment free of all forms of discrimination and sexual harassment, including sexual assault, domestic violence, dating violence and stalking. If you (or someone you know) has experienced or experiences any of these incidents, know that you are not alone. Please know also that all faculty members at GSC are mandated reporters. Any student reporting any type of sexual harassment, sexual assault, dating violence, domestic violence, or stalking must be made aware that any report made to a faculty member under the provisions of Title IX will be reported to the Title IX Coordinator or a Title IX Deputy Coordinator. If you wish to speak with someone confidentially, you can contact the Counseling and Accessibility Services via the email above. The licensed counselors in the Counseling Office can provide confidential support. GSC does not discriminate against any student on the basis of pregnancy, parenting, or related conditions. Students seeking accommodations on the basis of pregnancy, parenting, or related conditions should contact Counseling and Accessibility Services at the email above regarding the process of documenting

pregnancy related issues and being approved for accommodations, including pregnancy related absences as defined under Title IX.”

- **ADA, IEP, and 504:** If you have a documented disability as described by the Americans with Disabilities Act (ADA) and the Rehabilitation Act of 1973, Section 504, you may be eligible to receive accommodations to assist in programmatic and/or physical accessibility. The Counseling and Accessibility Services office can assist you in formulating a reasonable accommodation plan and in providing support in developing appropriate accommodations to ensure equal access to all GSC programs and facilities.” Contact Counseling and Accessibility Services at aliciad@gordonstate.edu
- **COVID updates:** <https://www.gordonstate.edu/corona-virus/index.html>
- **Religious Holidays:** GSC acknowledges that the academic calendar can sometimes conflict with major holidays from among our diverse religious traditions. If you need to miss class to observe a religious holiday, just let me know beforehand so we can figure out how you’ll get your work completed.
- **School-Related Absences:** If you need to miss class because of a school-related activity (sports, field trips, etc.), please contact me.
- **GA House Bill 280:** See the University System of Georgia at the following link <http://www.usg.edu/hb280>.

Miscellaneous Student Resources:

- **Tutoring:** The GSC Student Success Center provides tutoring services for students on a variety of topics. [They also provide online academic resources. Please see the Student Success Center’s website for more information.](#)
 - **NetTutor** This free online tutoring is available 24/7 via D2L. To access, select “Tools/Resources” from within the D2L course. Then select NetTutor & pick the subject. Leave a question or start live tutoring (link to tutoring hours will be in upper right corner). You can use the chat feature or ask tutor to turn on audio. These sessions are recorded, so you watch them multiple times.
- **D2L:** Brightspace by D2L is GSC’s online learning management system (LMS). Course materials and your gradebook are housed on D2L. Here are the instructions for getting into our course, in case you’re new to this system:
 - Go to the homepage www.gordonstate.edu
 - Choose “My Gordon” link (top middle of page)
 - Choose “Brightspace by D2L”
 - Log in with GSC email username (do not include @gordonstate.edu) and current GSC email password
 - Once D2L opens, choose our class under the “My Courses” widget (on far right of page)
 - Choose “Content” on the course navigation bar at top to view our course materials.
 - Do Note that you cannot see any of your courses in D2L until the first official day of classes. If you add the class in Banner Web during the Drop/Add period, it will take an overnight process for you to be added into D2L.

- **Assistance with D2L:**
 - If you cannot log in, [Consider resetting your password here](#) (passwords must have uppercase letters, lowercase letters, numbers/symbols, must be at least 10 characters and cannot include name/username).
 - If you still cannot log in or if you have some other weird problem, then email d2lhelp@gordonstate.edu and provide your name, your 929 number, and the course/section information. This email is checked M-F, 8-5.
 - You also have access to a 24/7 Live Chat hosted by the University System of Georgia. [Chat live here.](#)
- **Assistance with computer hardware** (i.e., loading Microsoft Office, removing a virus from your computer, etc.)
 - You can call GSC Information Technology at 678-359-5008. They are open M-F 8-5. If you leave a voicemail, please include your name, 929 number, a brief description of the problem, and a call-back number.
 - You can go to GSC Information Technology in the Instructional Complex Building, room 109.
- **Computers on Campus:** There are computers all over the campus if you need to use one, including in the first-floor computer lab of the Instructional Complex (IC), as well as in Academic, Russell, Smith, Nursing & Allied Health Services, Hightower Library, and the Student Success Center. If you live in the residence halls, there are computer labs located there as well.
- **Counseling and Accessibility Services Office:** If you (or someone you care for at GSC) feels overwhelmed, depressed, or in need of support, please contact this office for free counseling. alisonb@gordonstate.edu
 - Please know that there is also a 24-hour crisis line available: 1-800-715-4225
- **Highlander House:** If you or someone you know is facing food insecurity or needs toiletry items, check out this free student success resource: SARC 113.
- **Career Services Center:** Our Career Services Center offers many forms of assistance for you, such as Kuder Interest Assessments; Career readiness, preparation, & assistance; internship preparation & opportunities; Toastmasters; Professional Development Events; and Community Engagement & Service-Learning opportunities (328 Lambdin Hall, 678.359.5719).
- **Library Services:** The Hightower Collaborative Learning Center & Library offers Gordon State students specialized library research assistance. Students can meet with their personal librarians for one-on-one help in each discipline, major, or course to search and evaluate information sources effectively. Go to <http://libcal.gordonstate.edu/> to schedule an appointment by clicking the Personal Librarian tab or click on the Presentation Practice Room tab to make a reservation. For immediate help, call 678-359-5076 or stop by the Circulation/Check-Out Desk. You can also Ask A Librarian or drop by the Circulation/Checkout Desk. Check the library's web site for hours, electronic resources, and LibGuides (subject- or class specific research guides)

COURSE CALENDAR:

HW is assigned and graded electronically in MyMathLab. All due dates are available in D2L.

Section	
1B: Propositions and Truth Values	
1C: Sets and Venn Diagrams	
1D: Analyzing Arguments*	
2A: The Problem-Solving Power of Units*	
4B: The Power of Compounding	
4C: Plans and Investments*	OPTIONAL
EX I	
5A: Fundamentals of Statistics	
5B: Should You Believe a Statistical Study?*	
5C: Statistical Tables and Graphs	
5D: Graphs in the Media*	
5E: Correlation and Causality	
EX II	
6A: Characterizing Data 6B: Measures of Variation	
7A: Fundamentals of Probability 7B: Combining Probabilities	
EX III	
9A: The Building Blocks of Mathematical Models 9B: Linear Models 9B: Supplement (Handout) Fitting	

Section	
Linear Models to Data*	
8A: Growth: Linear vs. Exponential*	
8B: Doubling Time and Half-Life*	
8C: Real population Growth*	
9C: Exponential Models*	
Exam IV	
Proctored FINAL EXAMINATION	FE: Comprehensive Monday December 9th, 12:30PM-2:30PM IC 103

** This course syllabus provides a general plan for this course. The Faculty reserves the right to make changes to the syllabus, including changes to assignments, projects, examinations, etc., in order to accommodate the needs of the class as a whole and fulfill the goals of the course.*