**SUPPORT FOR QUANTITATIVE REASONING**

**Syllabus**

**Spring 2024**

Support for Quantitative Skills and Reasoning Math 0997 Online Course w/ Classroom Support

**COURSE:** MATH 0997

**CREDIT:** (0-2-1) for institutional use only

**COREQUISITE:** MATH 1001

**TEXT:** None required - MML access code is required

**INSTRUCTOR:** Dr. Geoff F. Clement

**PHONE:** 678-359-5820 School Office: 678-359-5468
School of Education, Mathematics, & Applied Sciences Office:

**EMAIL ADDRESS:** gclement@gordonstate.edu

**OFFICE: Instructional Complex (IC) Room 243**

**OFFICE HOURS: MW 10-11, TR 9-12, Other times by appointment**

**SOFTWARE: Pearson’s My Math Lab software is required for this course.** All assignments (pretests, lessons/assignments, and tests) are in the software, and we are using a mastery-based approach. **This is integrated (IA) into D2L, so your MML is already paid for by your tuition.**
[MML Course ID: clement07486]

**COURSES: Math 0997 LS3 CRN: 3371 TR 12:30-1:20 IC 102**

 **[Linked to Math 1001 LS3 CRN: 3386 MW 12:30-1:45 IC 220]**

**MML TECH SUPPORT: 1.800.677.6337**

*Note: This is a tentative syllabus and may be changed by the instructor at any time. Students will be informed of any changes.*

**1. DESCRIPTION**

This course is designed to help the student simultaneously address learning support mathematics requirement and complete a Core Area A mathematics course, Quantitative Skills and Reasoning (Math 1001). This course covers polynomial, rational, and radical expressions and sentences, linear and quadratic functions, exponential and logarithmic functions, and statistical reasoning. Students should have an understanding and be able to demonstrate their knowledge of:

 1. Operating with rational real numbers

 2. Set concepts and terminology and set operations (complement, union, intersection,
 set difference, and Cartesian product)

 3. Rounding numbers and scientific notation

 4. Ratios and proportions

 5. Percentages

 6. Solving linear equations in one variable

 7. Graphing linear equations in two variables

 8. Applying the laws of exponents and order of operations

 9. Operating with polynomials

 10. Operating with radical expressions

 11. Logarithms

 12. Computations with formulae

* MATH 1001 will be taken along with Math 0997. Mathematical topics will be studied at the needed time in this course for the student to succeed in MATH 1001; this is called “just in time instruction”. They are separate courses in Banner, but highly related in terms of math content.
* To do well in the course, students must practice many problems outside of class, ask questions in class until there is a complete understanding of each concept, and prepare for tests by reviewing problems worked in class.
* A notebook needs to be maintained and brought to class each day. All of the My Math Lab software assignments need to be labeled with the assignment and work placed in your notebook. The MATH 1001 textbook is optional; the e-textbook for both courses is contained within My Math Lab.

**2.** **COURSE OBJECTIVES**

* General education objective: Students will demonstrate a basic knowledge of the fundamentals of college level mathematics.
* Learning Support Math Program Goal: Mathematics students will be taught the skills needed for successful college level work.
* Outcomes: Successful MATH 0997 students will demonstrate an understanding of logic, Venn diagrams and set operations, problem solving strategies, linear and quadratic functions, exponential and logarithmic functions, probability, and statistical reasoning. The successful student will also complete MATH 1001.

**3. ADDITIONAL RESOURCES**

* Free tutoring available in the Student Success Center
* Study groups with fellow classmates
* Individual help during instructor’s office hours

 **4. OFFICE PROCEDURES FOR EXTRA HELP**

* Bring lesson notes.
* Make sure the lesson has been read and the examples studied.
* Be prepared to show at least two problems that have been attempted.
* Bring incomplete or incorrect work for each problem.
* Ask for help as early as possible. Do not wait until the day of the test.

**5.** **ATTENDANCE**

Attendance is very important. All students are expected and urged to attend all classes. Each absence makes it more difficult to acquire knowledge and increase learning.

**6. CLASSROOM ETIQUETTE**

* Treat the instructor and other students with respect.
* Talk to other students only to get help on a related math problem. This must be done quietly, so you do not disturb others.
* Leave the classroom during class time only after having spoken to the instructor.
* Cell phones must be silenced and out of sight during class time. Phones should be placed in your bag or on the floor. They do not need to be on your desk or in your lap. Your attention needs to be on the lesson.
* Drinks and/or food may not be brought into the computer labs.

**7. CALCULATOR**

* Cell phone calculators may not be used for testing.
* Texas Instruments TI-30XIIS and TI-84 Plus are recommended, but the graphing calculator is required for Math 1001 (and available in our Bookstore and Library).

**8.** **GRADES**

All of the course grading will be done in the MML software. After a mandatory diagnostic pretest, students will work through several homework assignments, and then conclude the unit with a test. There are 5 units in the course, as outlined below.

The 5 pretests will count 10%, the 5 tests will count 40%, and the 20-25 homework assignments will count 40%. The course average will then be based on the standard grading scale:

|  |  |
| --- | --- |
| A% | 89.5-100 |
| B% | 79.5-89.4 |
| C% | 69.5-79.4  |
| IP% | Not satisfactory, but showing progress |
| F% | 0-69.4, but not showing progress  |
| WF% | Withdrawn after midterm or stopped attending after midterm without officially withdrawing from the class |
| W% | Withdrawn before midterm |

**9.** **CRITERIA FOR EXITING MATH 0997 (Learning Support Math)**

A student completing MATH 1001 with a grade of D or higher will also have completed MATH 0997 and earned exiting Learning Support Math.

* **Learning Support Standards of Progress**

In addition to the **Academic Standards of Progress** (See the on-line Gordon State College Academic Catalog) and in accordance with policies of the University System of Georgia, students enrolled in one or more Learning Support courses must comply with progression requirements of the Learning Support program. (See Learning Support Program in the on-line catalog for more information.)

Time spent in Learning Support course work in a disciplinary area shall be cumulative within the University System of Georgia (USG).

Students who only require support in their degree-credit gateway course will begin in one of the corequisite pairs (ENGL 0999/ENGL 1101, MATH 0997/ MATH 1001, or MATH 0999/MATH 1111).

Students who have accumulated 30 semester hours or more of college level credit will be allowed to take only the required Learning Support classes. No other classes may be taken.

* **ADDITIONAL INFORMATION**

Should students find it necessary at any time to see their instructor or the Coordinator of the Learning Support Program for clarification of any course related or departmental policy, to discuss their progress, or to request additional help, they should feel free to ask for an appointment.

**Title IX**

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. All faculty members at Gordon State College 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 must contact the Counseling and Accessibility Services office, Room 212, Student Life Center. The licensed counselors in the Counseling Office are able to provide confidential support. Gordon State College 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 regarding the process of documenting pregnancy related issues and being approved for accommodations, including pregnancy related absences as defined under Title IX.

**ADA 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 located in the Student Center, Room 212 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. Course requirements will not be waived, but accommodations may assist you in meeting the requirements. For documentation requirements and for additional information, contact Counseling and Accessibility Services at 678-359-5585.

**House Bill 280**

For information regarding House Bill 280, see the University System of Georgia at the following link: http://www.usg.edu/hb280

**Religious Holidays**

Gordon State College acknowledges that the academic calendar can sometimes conflict with major holidays from among our diverse religious traditions. If a student must miss class due to the observance of a religious holiday, that absence may be excused. To be excused, the student must inform his/her instructors before the absence and make alternate arrangements for any work due at the time of the absence. An excused absence for the observance of a religious holiday does not excuse student from responsibility for required course work.

**COVID**

For more information related to COVID-19, visit https://www.gordonstate.edu/corona-virus/index.html

**Math 0997-LS3 Spring 2024 Schedule**

**COURSES: Math 0997 LS3 CRN: 3371 MW 12:30-1:20 IC 102 Course ID: clement07486**

**MML website:** <https://mlm.pearson.com/northamerica/>

Customer Support: 1-800-677-6337

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| --- | --- | --- |
| **UNIT** | **Section and/or Topics** | **Date** |
| 1 | Use Logic and Truth Tables, **Personal Intro Discussion due 1/22** | 2/4 |
| 1 | Real Numbers and Venn Diagrams, **Syllabus Quiz due 1/24** | 2/4 |
| 1 | Subsets and Venn Diagrams | 2/4 |
| 1 | Set Operations | 2/4 |
| 1 | Practice Test | 2/4 |
| **1** | **Test #1** | **2/4** |
| 2 | Percent Conversions | 2/20 |
| 2 | Amount, Base Percent | 2/20 |
| 2 | Simple and Compound Interest Problems | 2/20 |
| 2 | Practice Test | 2/20 |
| **2** | **Test #2 (This is the last test before the midterm withdrawal date 10/6)** | **2/20** |
| 3 | Fundamentals of Statistics; Population and Sampling | 3/24 |
| 3 | Statistical Tables and Graphs | 3/24 |
| 3 | Correlation and Causality | 3/24 |
| 3 | Scatterplots and Correlation | 3/24 |
| 3 | Averages and Measures Central Tendency | 3/24 |
| 3 | Measures of Variability | 3/24 |
| 3 | Quartiles | 3/24 |
| 3 | Practice Test | 3/24 |
| **3** | **Test #3** | **3/24** |
| 4 | Using Probabilities | 4/16 |
| 4 | Graphing Points; Lines, intercepts, and slopes; Finding equations of lines; Functions | 4/16 |
| 4 | Solving linear systems | 4/16 |
| 4 | Evaluating logarithms | 4/16 |
| 4 | Practice Test | 4/16 |
| **4** | **Test #4** | **4/16** |
| 5 | Solve exponential equations | 5/7 |
| 5 | Graph exponential functions | 5/7 |
| 5 | Evaluate logarithms | 5/7 |
|  | **FINAL – the last day of class** | **5/7** |

**Important Dates: Last Day of Classes: T, May 7 or W, May 8 Midterm W Deadline: M, March 11
 Spring Break M-F, March 18-22 Final Exams R-T, May 11-16
Instructor……………….Dr. Geoff Clement E-mail………****gclement@gordonstate.edu** **Office……………………Instructional Complex, Room 243 Website………………….**[**http://faculty.gordonstate.edu/gclement**](http://faculty.gordonstate.edu/gclement) **Phone………678-359-5820; School office (678-359-5468)
Office Hours…………… MW 10-11 & TR 9-12 in IC 243/MS Teams Voice/Navigate, Other times by appointment
Other Tutoring…………Student Success Center (Student Center, 2nd floor, above Bookstore) & STEM Center (IC 319)

Do your best! Rise to the challenge! Live and learn!**