

UNIVERSITY OF NORTH GEORGIA
COLLEGE OF SCIENCE AND MATHEMATICS
MATHEMATICS DEPARTMENT
SYLLABUS: MATH 0998 [SUPPORT FOR MATHEMATICAL MODELS]

Semester: Fall 2020

Instructor: Thomas Hartfield

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Office Hours: Monday / Wednesday 11:00 am – 12:00 noon, *afternoons by request*
Tuesday 12:30 pm – 1:30 pm, 3:30 pm – 5:30 pm
Thursdays 12:30 pm – 1:30 pm

First Day for Withdrawal (W): Friday, August 21, 2020 at 12:00 noon

Last Day for Withdrawal (W): Friday, October 9, 2020 at 11:59 pm

Final Exam: Wednesday, December 2, 2020 at 8:00 am

Text/Other Materials:

1. Textbook: *Finite Mathematics with Applications in the Management, Natural, and Social Sciences*, 12th ed. by Lial/Hungerford/Holcomb/Mullins. (Publisher: Pearson Education, 2019)
2. Required Online Access: MyLabMath for *Finite Mathematics with Applications in the Management, Natural, and Social Sciences*
3. Library Resources:
 - Mathematics Teacher, NCTM, Reston, VA.
 - Katz, Victor. *A History of Mathematics*. New York: Harper Collins, 1993.
 - Bell, E. T. *Men of Mathematics*. New York: Simon & Schuster, 1937.
 - Burton, David. *Burton's History of Mathematics: An Introduction*. Dubuque, IA: Wm. C. Brown Communications, Inc.
 - Swetz, F., Fauvel, J., Bekken, O., Johansson, B., & Katz, V., Ed. *Learn from the Masters!* Washington, DC: Mathematical Association of America, 1995.
 - Osen, Lynn. *Women in Mathematics*. Cambridge MA, MIT Press, 1974.
 - *Women and Science Celebrating Achievements Charting Challenges* (National Science Foundation, 1997)
 - *Multicultural and Gender Equity in the Mathematics Classroom: The Gift of Diversity* (Janet Trentacosta & J. Kenney, Eds., NCTM, 1997)
4. Web-based Resources:
 - AMS Math Moments – <http://www.ams.org/mathmoments/>
 - Association for Women in Mathematics – <http://www.awm-math.org>
 - Careers in Mathematics – <http://www.ams.org/early-careers/>
 - Geogebra – <http://www.geogebra.org>
 - Math Forum – <http://nctm.org/mathforum>
 - Multicultural Pavilion – <http://www.edchange.org/multicultural>
 - PurpleMath – <http://purplemath.com>
 - SOS Mathematics – <http://www.sosmath.com/>
 - UNG Resources – <http://www.ung.edu/learning-support/academic-resources.php>
5. Technology Resources:
 - Graphing calculator at a (more or less) equivalent level to a TI-84+
 - A personal computer
 - A webcam (if your personal computer does not have one built in)

Catalog Description: A course designed to allow students to simultaneously satisfy their LS requirement and take MATH 1101, an Area A Math. The course will cover the Beginning or Intermediate Algebra topics needed for the student to be successful in Mathematical Models. Emphasis is on the use of elementary functions to investigate and analyze applied problems and questions, supported by the use of appropriate technology and on effective communication of quantitative concepts and results. The course allows the instructor to assist the students with any deficiencies they may have while attempting the Mathematical Models topics. The material covered in MATH 0998 is meant to provide background information or just-in-time remediation of the topics covered in MATH 1101. The course will include non-cognitive aspects to promote a productive academic mindset as well as study strategies that result in academic success. *Credit:* 3 hours credit. *Prerequisite:* Admission requirements will be determined on a semester to semester basis. Admission is dependent upon the student’s MPI score. *Corequisite:* MATH 1101

Additional LS Policies: **For students who are REQUIRED to take MATH 0999**

- Students who withdraw or are withdrawn from MATH 0998 may not remain enrolled in MATH 1101 and vice versa.
- Students who withdraw from MATH 0998 & MATH 1101 courses will not, however, be required to withdraw from other collegiate courses not directly related to the Learning Support requirement. While there is no limit on the number of attempts that students may have in MATH 0999, students with LS requirements who have not completed Area A of core by the time they earn 30 hours of credit are restricted to taking *only* LS coursework until the LS requirement is completed. Therefore, withdrawals and non-passing grades affect completion of Area A. (see table below)
- You must have an A, B, or C to pass MATH 0998.
- Students who pass MATH 0998 but do not successfully complete MATH 1101 must repeat both MATH 0998 & MATH 1101. (see the table below)
- Students will exit Learning Support upon successful completion (defined as a grade that satisfies the Area A requirements for that course at that institution) of MATH 1101. Their Learning Support requirements remain until they have successfully completed MATH 1101. This means that students with this Learning Support requirement must register for MATH 0998 & MATH 1101 every semester until they successfully complete MATH 1101.
- Visit <http://ung.edu/learning-support/policies.php> for a more comprehensive list of USG and UNG Learning Support policies.

	Pass MATH 0998	Fail MATH 0998
Pass MATH 1101	Exit Learning Support	Exit Learning Support but receive F for MATH 0999
Fail MATH 1101	Remain in LS; repeat MATH 0998 and MATH 1101	Remain in LS; repeat MATH 0998 and MATH 1101

For students who are *not required* to take MATH 0998

- A student not required to take a LS course may register for a LS course.
- If a student *not required* to take a LS Math course registers to take MATH 0998 + MATH 1101 and withdraws from MATH 0998 after the add/drop period, the student can stay in the MATH 1101 class.

For students who wish to change pathway from non-STEM to STEM

- After a student has passed Math 1001 or Math 1101 with an A, B, or C, then the student will be allowed to take Math 1111 without the Support for College Algebra Co-requisite course.
- Upon completion of MATH 1001 or MATH 1101, a student may, however, volunteer to take Math 0999, Support for College Algebra, along with the paired section of MATH 1111, College Algebra. If you receive any financial aid, HOPE, etc., please find out if this volunteer option will be covered.
- A student transitioning to Math 1111 is strongly encouraged to seek out our free math tutors in the beginning of the course; many of the concepts in Math 1111 are not covered in 1001 or 1101.

Course Objectives: After completion of the course the student will be able to:

- Successful complete the corequisite course MATH 1101.
- Apply algebraic skills that complement the requirements of MATH 1101.

Methods of Instruction: Direct instruction will consist of live practice and feedback. As circumstances permit, live instructional will be done face-to-face; if face-to-face instruction is prohibited due to campus closure, live instruction will be achieved through online video meetings. All support and supplemental instruction will be achieved through computer-based reviews and lectures.

All students in the class will be divided into one of two cohorts for live instruction purposes: a Monday-Wednesday cohort and a Tuesday-Thursday cohort. Students should plan to reserve all class time for possible usage related to the course but students are expected to be present, in person or online (depending on campus status) for all live instruction with their cohort on assigned days.

Evaluation Methods: Formative and summative assessments will be in the form quizzes and homework sets.

Academic Honesty: Academic honesty is highly valued at UNG. Any student caught cheating or using inappropriate materials will be referred to the Office of the Dean of Students for violating the Student Code of Conduct.

UNG Attendance Policy: Any student who fails the course will have his/her date of last attendance or assignment completed noted for federal financial aid regulations.

Final Grades: The semester grade will be calculated by the average of MyLab Math homework assignments sets for MATH 0998.

Students must attempt MyLab Math quizzes before being able to attempt corresponding homework assignments; a student earning a 100 on a quiz received an automatic 100 on the corresponding homework assignment, otherwise grades on quizzes will not impact a student’s semester grade.

100%	90%	80%	70%	0%
A	B	C	F	

Supplemental Syllabus: Additional information is provided at <http://ung.edu/academic-affairs/policies-and-guidelines/supplemental-syllabus.php> covering the following topics: Academic Success Plan Program, Students with Disabilities, Academic Integrity Policy, Disruptive Behavior Policy, Class Evaluations, Academic Exchange, Inclement Weather, & Course Grades and Withdrawal Process