SYLLABUS, MATH 1101 SECTION 04, SPRING 2019

INTRO TO MATHEMATICAL MODELING, 3 CREDIT HOURS

(Hyperlinks for accessibility are provided throughout this document with full URLs noted in the footnote.)

INSTRUCTOR INFORMATION AND OFFICE HOURS

Dr. Mike Hilgemann
Office: Sequoya 119
Email: mihilgemann@daltonstate.edu
Office Phone: 706-272-2167

Office Hours (or by appointment):
- Monday: 10:50 AM – 12:05 PM
- Tuesday: 9:25 AM – 10:40 AM
- Wednesday: 10:50 AM – 12:05 PM
- Thursday: 9:25 AM – 10:40 AM

MEETING TIMES AND LOCATION

Tuesdays and Thursdays, 12:15 – 1:30 PM, in Sequoya 131

REQUIRED TEXT AND MATERIALS

An access code to MyLabsPlus (for both homework and textbook) and a scientific calculator without graphing capabilities are required for this course. If you want a physical copy of the textbook, which is optional, you can find “College Algebra with Modeling and Visualization” by Rockswald (5th Ed.) at various online booksellers.

PRE-REQUISITES AND CO-REQUISITES

Placement into co-requisite Learning Support mathematics (MATH 0998), unless exempt.

COURSE DESCRIPTION

This course is an introduction to mathematical modeling using graphical, numerical, symbolic, and verbal techniques to describe and explore real-world data and phenomena. Emphasis is on the use of linear,
polynomial, exponential, and logarithmic 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. This course is not intended to supply sufficient algebraic background for students who intend to take pre-calculus or the calculus sequence for mathematics and science majors.

**STUDENT LEARNING OUTCOMES**

Upon completion of this course, students will be able to

- Express and manipulate mathematical information and concepts in verbal, numeric, graphical, and symbolic form while solving a variety of problems;
- Shift between the verbal, numeric, graphical, and symbolic modes of considering relationships between quantities;
- Model situations from a variety of settings in mathematical form by extracting quantitative data, translating the data into information into various forms, evaluating the information, abstracting essential information, making deductions, and arriving at reasonable conclusions;
- Use linear, polynomial, exponential, and logarithmic functions to model and analyze relationships between quantities and to solve applied problems.

**METHODS OF ASSESSING STUDENT LEARNING OUTCOMES**

The above learning outcomes will be assessed using a pre-test at the beginning of the semester and a post-test at the end of the semester which will be administered on GeorgiaView. More information on accessing these tests will be given in class at the appropriate times.

**COURSE POLICIES**

- Students are expected to attend class and actively participate, both of which are crucial for success in this course. Arrive on time for class each day and do not distract other students during class.
- Students should silence and put away all cell phones, music players, or other electronic devices before class begins. Each student should bring their calculator and notes to class every day.
- In the event that a student misses a class, it is their responsibility to find out what was discussed that day, to read the relevant material in the textbook, and to attempt practice problems on that material from the end of the relevant section.
- Each student should check their Dalton State email and GeorgiaView regularly (at least once a day) for announcements, schedule changes, or other information. Not checking email or GeorgiaView will not be an excuse for missing such information.
- Students must spend a significant amount of time outside of class working problems and building an understanding of the material - this is when the majority of learning will take place. Grades in
this course are based on performance, not effort, so students should work toward understanding and not just putting in time.

- Students should seek help outside of class if they are struggling with the content of this course by going to their instructor’s office hours, utilizing the Math Lab (Sequoya 219), or getting a tutor through the Dean of Students Office.
- Students are responsible for knowing the policies of this course and the information on this syllabus. Changes to course policies or this syllabus will be announced in class and posted on GeorgiaView.

**Grading Policy**
A student’s grade in this course will be based on the percentage of points earned out of the maximum possible points, using the usual scale:

- F: 0-59%, D: 60-69%, C: 70-79%, B: 80-89%, A: 90-100%

Exams are worth 100 points each, online MyLabsPlus homework is worth 1 point per problem, in-class group projects are worth 20 points each, and attendance is worth 1 point per day. There will be no individual extra credit offered in this class.

**Attendance**
Attending and participating in class are important to learning and understanding the material in this course. Each day there is not an exam, students will receive 1 point toward their final grade for attending and participating in class. Students who are significantly late to class, leave class early, or who do not participate in class activities (including Plicker questions and practice problems) will not receive attendance credit. It is the student’s responsibility to sign the attendance sheet before leaving class for the day in order to be counted as attending. Class days or quizzes missed due to excused absences (illness, family emergency, school or athletic activity, military service, jury duty, etc) will not count against a student as long as they provide timely documentation for their absence.

**Plicker Questions**
Most class days there will be various multiple choice questions posed in class for students to answer using their Plicker cards, which will be provided to them the first day of class. Every student has been assigned a number corresponding to a Plicker card, so each student must ensure they have the correct assigned card. Participation in Plicker questions counts towards the attendance point each day, so it is the responsibility of each student to bring their card to class each day. If a student loses their Plicker card, they can print or display their specific numbered card off from the website [http://www.plickers.com](http://www.plickers.com).

**Homework**
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Online homework using MyLabsPlus will be assigned for each section that is covered in class, located at http://www.daltonstate.mylabsplus.com. Each assigned problem set will be due at the start of the next class meeting. Each problem from the homework assignment is worth one point toward the student’s grade. Problems can be reworked until a correct answer is achieved up until the time the assignment is due. After the due date, the student will have an additional week to finish to up any problems not finished for half credit. Homework due dates will not be adjusted for students who miss class – it is the student’s responsibility to read the relevant section and to keep up with the homework due dates as the semester progresses. Due dates for all homework assignments can be found on MyLabsPlus. Information about logging into and using MyLabsPlus is given on a separate attached document. The course textbook is also accessible through MyLabsPlus and students should consult both the textbook and their notes for help while working on homework. Students should feel free to utilize the Math Lab (Sequoya 219) while working on homework so they may ask questions and get help as needed.

**PROJECTS**
There will be an in-class group project given near the end of the semester according to the provided schedule. The project will be worked on in a group in class and will utilize technology such as Microsoft Excel or other online computational tools. The content of the projects will not only reinforce content covered in class but also deal with extra content as well. Each project is worth 20 points toward the final grade.

**EXAMS**
There will be a total of four exams given during the semester, which includes a cumulative final exam at the end of the semester. Each exam is worth 100 points toward the final grade. Students may use a scientific calculator on the exams, but may not use a graphing calculator, their cell phone, or any other electronic device without permission from the instructor. At the end of the semester, your lowest exam score will be replaced with your final exam score if it is higher. Exams will not only be graded on correctness, but also on the completeness and clarity of the work shown. The dates for all exams are listed on the tentative course schedule but are subject to change. Changes in the exam schedule will be announced in class and on GeorgiaView.

**EXTRA HELP**
If students need extra help in this course, they have several options. First and foremost, students should feel welcome to stop by your instructor’s office hours if they have questions on the content or on specific problems (or make an appointment for a time that works for both). Students can also email short questions to their instructor – a reply within 24 hours can be expected, but not generally in the evenings. Students are encouraged to work with other students on the homework and while preparing for quizzes and exams. The Math Lab is located in Sequoya 219 and is available for help with this course. The Math
Lab is generally open Monday-Thursdays 8 AM to 8 PM and Fridays 8 AM to 3 PM and is a great place to work with other students or get individual help from workers as needed. Lastly, students should contact the Dean of Students Office for information on tutoring and peer instruction as soon as such a need is recognized. The early that tutoring is started, the better chance it has of making a difference.

**CHEATING**

Cheating of any kind on any assignment or exam is a violation of the student code of conduct and will result in a score of 0 for that assessment and a cheating incident report being filed with the college. In extreme circumstances, cheating may also result in an automatic failing grade for the course.

**MAKE-UP POLICY**

Make-up exams or assignments will be given only at the discretion of the instructor and only for emergencies, school or athletic activities, or other unavoidable situations. If possible, you must notify your instructor in advance if you need to miss an exam so that we can schedule a make-up time. If an emergency causes you to unexpectedly miss an exam, you must talk to or email your instructor within 24 hours of the missed exam and you must provide documentation to verify your absence. All make-up exams will be scheduled with and taken in the Testing Center (Liberal Arts Building 103, 706-272-2606) but you must contact your instructor before an appointment may be made. Make-ups for group projects or other in-class work will be given in cases of emergencies, school or athletic activities, or other unavoidable situations; students needing such accommodation must e-mail or contact their instructor as soon as a conflict is known.

**EMERGENCY INSTRUCTIONAL PLAN**

In the event the college is closed due to inclement weather or another unforeseen event, students will consult the schedule provided with this syllabus to determine which section would be covered during the missed class day. Students will read the corresponding section in the textbook on MyLabsPlus, and should complete the corresponding MyLabsPlus assignment before returning to class as usual. Students should check GeorgiaView for announcements and any changes to the schedule that result from the missed class. Students should also check their email for any additional information or assignments sent from their instructor. The instructor will be available via email for questions when the college is closed unless power outages prevent access to the internet.

**CARE Team**

The Campus Assessment, Response, and Evaluation Team, also known as CARE, at Dalton State College engages in proactive and collaborative approaches to identify, assess, and mitigate potential risks associated with members of the campus who exhibit concerning or unusual behaviors. Report a
concern through the CARE Reporting Form\textsuperscript{1}, Should you have questions, contact the Dean of Students’ Office at 706.272.4428.

**DISABILITY ACCESS**

(From Disability Access\textsuperscript{2} website)

Students with disabilities or special needs are encouraged to contact Disability Access. In order to make an appointment or to obtain information on the process for qualifying for accommodations, the student should visit the Disability Access Library Guide\textsuperscript{3} or contact the Disability Access office.

**Contact information**
Andrea Roberson, Associate Director of Disability Access and Student Support Services
Pope Student Center, upper level
706-272-2524
aroberson@daltonstate.edu

**ETHICAL CONDUCT**

*Academic Dishonesty* Cheating and plagiarism are a part of the Dalton State Student Code of Conduct, which can be found in its most updated form at Dalton State Student Code of Conduct\textsuperscript{4}. Any assistance provided or given in any way toward work in a class constitutes cheating, unless such behavior is authorized by your instructor. Additionally, any use of the ideas or words of others should be noted, or this will constitute plagiarism. Using another students’ work or collaborating on an assignment not designated as collaborative is unacceptable. Furthermore, presenting work that was completed for another class, while not plagiarism technically, is not the same as presenting original work, and is therefore unacceptable unless it has been authorized by your instructor. For more details on what Dalton State considers to be Academic Dishonesty, please review the Student Code of Conduct. Instructors will assign grades based on classroom performance. Additional sanctions may be provided as a learning experience from the Student Conduct process.

*Classroom Behavior* Dalton State is committed to respect via the Roadrunner Respect pledge. To learn more, please visit Roadrunner Respect. “I pledge to show my fellow Roadrunner students, faculty, staff, and administration respect by treating others the way they want to be treated and by thinking about others first before making decisions that might affect them.”

**COURSE WITHDRAWAL STATEMENT**

The last day to drop this class without penalty (a W or a required signature) is Friday, March 22. If you complete the proper paperwork to drop the course by this date, you will be assigned a grade of W. After this date, withdrawal without penalty is permitted only in cases of Extreme Hardship\textsuperscript{5} as determined by the Vice President for Academic Affairs; otherwise a grade of WF will be issued. Students who fail to

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complete the official drop/withdrawal procedure will receive the grade of F. Withdrawal from class is a student responsibility. The grade of W counts as hours attempted for the purposes of financial aid.

**FULL WITHDRAWAL STATEMENT**

The proper form for withdrawing from all classes at the college after the official drop/add period but before the published withdrawal date (Academic Campus Calendar viii) is the Schedule Adjustment Form viii. All students must meet with a staff member at the Dean of Students office in the upper-level of the Pope Student Center to initiate the withdrawal process and complete an exit interview. After meeting with the staff member, students will then finalize the withdrawal process in the Enrollment Services Office.

**GRADE APPEALS**

A student may file a formal challenge to a grade if there is unequivocal evidence that one or more of the following applies:

a) It was a direct result of arbitrary and capricious conduct on the part of the instructor;
b) The instructor discriminated against the student on the basis of a protected classification as the term is defined by Federal Law, Georgia State Law, or the Administrative Code of the City of Dalton;
c) The grade was incorrectly calculated;
d) A clerical error occurred in recording the grade; or
e) A mitigating circumstance prevented the student from completing a final assignment or attending the final exam.

To appeal a grade, the student must notify the instructor in writing no later than two days after the posting of final grades. See Grade Changes and Appeals ix for the complete documentation.

**ACADEMIC PROGRESSION**

To remain in academically good standing, students must maintain an institutional GPA of 2.0 or higher. Students who do not maintain a 2.0 move through a sequence of statuses ranging from Academic Warning to Academic Probation to Academic Suspension to Academic Dismissal. See Academic Progress x for the complete documentation.

**OFFICIALLY APPROVED DSC GROUPS AND ACTIVITIES**

When students are engaged in officially approved Dalton State groups or activities that require them to participate in events off campus during school days, they shall be treated similarly to any faculty or staff member acting in that same capacity. Thus, just as faculty and staff have excused absences from their
regular work schedules, students shall be excused from class without penalty if they are off campus representing Dalton State College in an approved, official capacity during their regular class time. Examples include presenting a paper or otherwise participating in a conference, attending a University System student affairs event, participating in intercollegiate competition (athletic or academic), participating in an approved field trip, etc. Just as faculty and staff members are required to submit Request to Travel forms for approval, in order to be excused, the student needs to provide the following information to the instructor prior to the date when he/she will be absent from class:

- notification of the event (in the case of athletics, students should provide each instructor a schedule of away events at the beginning of the semester or as soon as possible after the schedule is available);
- estimated time of departure from and return to campus (for example, if a student has an away game in the evening and will not be leaving campus until 3:00, he/she will not be excused from classes prior to that time on that day; similarly, if the event is in the morning and the student will be returning to campus during the day, he/she is expected to attend any class scheduled after the return trip); and
- contact information for the person or organization sponsoring/authorizing the student’s participation in the event

The student shall be allowed to make up any work missed during the time he/she is off campus representing DSC in an official capacity. He/she shall discuss what will be missed with the instructor and make arrangements to make up any assignments, tests, presentations, etc. scheduled on that date.

**TITLE IX INFORMATION**

**Student Sexual Misconduct Policy**

In accordance with Title IX of the Education Amendments of 1972 (“Title IX”), the University System of Georgia (USG) does not discriminate on the basis of sex in any of its education programs or activities or in employment. The USG is committed to ensuring a safe learning and working environment for all members of the USG community. To that end, this Policy prohibits sexual misconduct, as defined herein.

Please visit the [Title IX at Dalton State web page](#) for additional information on the [policy](#), [How to Report](#), [Resources](#), and [Campus Programs](#).

**HOUSE BILL 280**

*House Bill 280* commonly known as the “campus carry” legislation, is effective as of July 1, 2017.
### Full URL Links

7. **Academic Campus Calendar**: [https://www.daltonstate.edu/about/calendars.cms](https://www.daltonstate.edu/about/calendars.cms)
8. **Scheduled Adjustment Form**: [https://www.daltonstate.edu/campus_life/scheduled-adjustment-form.pdf](https://www.daltonstate.edu/campus_life/scheduled-adjustment-form.pdf)
12. **Title IX at Dalton State web page**: [https://www.daltonstate.edu/about/title-ix.cms](https://www.daltonstate.edu/about/title-ix.cms)
13. **Title IX Policy**: [https://www.daltonstate.edu/about/title-iv-policy.cms](https://www.daltonstate.edu/about/title-iv-policy.cms)
14. **Title IX How to Report**: [https://www.daltonstate.edu/about/title-ix-report.cms](https://www.daltonstate.edu/about/title-ix-report.cms)
15. **Title IX Resources**: [https://www.daltonstate.edu/about/title-ix-campus-community-resources.cms](https://www.daltonstate.edu/about/title-ix-campus-community-resources.cms)
16. **Title IX Campus Programs**: [https://www.daltonstate.edu/about/title-ix-campus-community-resources.cms](https://www.daltonstate.edu/about/title-ix-campus-community-resources.cms)
17. **House Bill 280**: [http://www.usg.edu/hb280](http://www.usg.edu/hb280)