

COURSE SYLLABUS
MAT 485 Fall 2017 Section M002 & M003
Differential Equations and Matrix Algebra for Engineers
Sect: M002 Monday - Wednesday, 3:45 pm – 5:05 pm, Carnegie 100
Sect: M003 Tuesday - Thursday, 12:30 pm – 1:50 pm, Carnegie 122

Instructor: Paul Tuttle,

Office: Room 207 Carnegie Hall

Office Hours:

- Tuesday: TBD
- Wednesday: TBD

I am also available after class. If I find these hours to be inadequate, I will add extended office hours. Also, I'm available outside of these hours by appointment.

Phone: (315) 243-4808 (cell) - Please text

Email: pgtuttle@syr.edu

Course Supervisor: Professor Eugene Poletsky, Room 206 Carnegie, 315-443-1486, epolets@syr.edu. Please inform your instructor of any problems that you have with this course. Problems not satisfactorily resolved with your instructor should be brought to the attention of the course supervisor without delay.

All Class Related Material is on Blackboard

Text: *Differential Equations & Linear Algebra (Second Edition)* by Farlow, Hall, McDill, and West, Prentice Hall, 2007. We expect to cover Chapters 1-8 with some omissions. The sections to be covered and the list of assigned homework problems from every section are given below.

Prerequisites: MAT 397. Credit cannot be given for both MAT 485 and MAT 414 or for both MAT 485 and MAT 331. MAT 485 does not count towards mathematics major, and students in CIS should not take it.

Learning Goals: Solutions of ordinary differential equations and such, Laplace transforms, vector spaces, matrix algebra, linear systems, eigenvalues and eigenvectors.

Exams: There are two in-class exams, tentatively scheduled on

Exam #1: TBD

Exam #2: TBD

The Final exam is on

Sect M002: TBD

Sect M003: TBD

It is comprehensive. There are no make-up semester exams, and the *Final exam will not be given at any other time*. Do not plan on leaving campus on this day until after 3:00 pm.

BEHAVIOR

Exams: If you need to take a break during exams, leave your cell phone on the table. Pick it up upon your return.

Homework and Quizzes:

Solving the homework problems is crucial for your success! Homework is assigned approximately weekly. Homework is due as you enter class. There are no make-up assignments. Late homework will not be accepted. The two lowest homework scores will be dropped. Homework will be graded based on my selection of one or two representative, randomly selected, problems (depending on the length of the assignment).

Tentative homework assignments may be found in the “Assigned Homework” in the Administrative folder.

Quizzes will be held approximately weekly. There are no make-up quizzes. The two lowest quiz scores will be dropped.

Rescoring of Homework, Quizzes and Exams:

If you resubmit your work to be rescored there must not be any erasures on the page containing the work in question.

Course Grades: The Final grades will be computed as follows:

- 2 Exams 25% each
- Homework 5%
- Quizzes 15%
- Final 30%

In addition, half of the lowest exam score may be replaced by the score on the final.

Letter Grades

| | |
|----|-------------|
| A | 94+ |
| A- | 90 - 93.99 |
| B+ | 87 - 89.99 |
| B | 84 - 86.99 |
| B- | 80 - 83.99 |
| C+ | 77 - 79.99 |
| C | 74 - 76.99 |
| C- | 70 - 73.99 |
| D | 60 - 69.99 |
| F | below 59.99 |

Your letter grade is strictly dependent on your performance in class. There is no work available beyond the Homework, Quizzes and Exams. There are no additional consideration beyond the Homework, Quizzes and Exams.

Calculator Policy: A calculator is not required for this course. *In particular, no calculators will be allowed on the exams or quizzes. Use or availability of any calculator or other electronic device on the exams or quizzes will be a violation of the Academic Integrity Policy.* You may use calculators for learning purposes and for solving homework. On exams and quizzes complete solutions, and not merely answers, must be presented to receive credit

Attendance: You are expected to attend class and to participate in it. If you miss a class, you are responsible for obtaining notes and any announcement from that class from another student.

Students with Disabilities: If you believe that you need academic adjustments (accommodations) for a disability, please contact the Office of Disability Services (ODS), visit the ODS website– <http://disabilityservices.syr.edu>, located in Room 309 of 804 University Avenue, or call (315) 443-4498 or TDD: (315) 443-1371 for an appointment to discuss your needs and the process for requesting academic adjustments. ODS is responsible for coordinating disability-related academic adjustments and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Since academic adjustments may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

You are also welcome to contact me privately to discuss your academic needs although I cannot arrange for disability-related accommodations.

Academic Integrity: Syracuse University's Academic Integrity Policy reflects the high value that we, as a university community, place on honesty in academic work. The policy defines our expectations for academic honesty and holds students accountable for the integrity of all work they submit. Students should understand that it is their responsibility to learn about course-specific expectations, as well as about university-wide academic integrity expectations. The policy governs appropriate citation and use of sources, the integrity of work submitted in exams and assignments, and the veracity of signatures on attendance sheets and other verification of

participation in class activities. The policy also prohibits students from submitting the same work in more than one class without receiving written authorization in advance from both instructors. Under the policy, students found in violation are subject to grade sanctions determined by the course instructor and non-grade sanctions determined by the School or College where the course is offered as described in the Violation and Sanction Classification Rubric. SU students are required to read an online summary of the University's academic integrity expectations and provide an electronic signature agreeing to abide by them twice a year during pre-term check-in on MySlice.

The Violation and Sanction Classification Rubric establishes recommended guidelines for the determination of grade penalties by faculty and instructors, while also giving them discretion to select the grade penalty they believe most suitable, including course failure, regardless of violation level. Any established violation in this course may result in course failure regardless of violation level. For more information and the complete policy, see <http://class.syr.edu/academic-integrity/>

Religious observances policy: Religious observances policy: SU religious observances policy recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to are religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online notification process is available through MySlice (Student Services -> Enrollment -> My Religious Observances) from the first day of class until the end of the second week of class.

Tips for Success:

- ***Don't fall behind! - The material builds upon itself rapidly, so try to keep up on a daily basis.***
- ***Do the homework! - It is absolutely essential that you understand how to solve all the assigned problems. Once you understand how to solve a problem, write down your solution neatly and in full detail with explanations that make your reasoning clear. This will make your old homework assignments more useful to you when you are studying for an exam.***

EXPECT TO WORK HARD – BE PATIENT AND PERSISTENT
