

## MATH 311-Topics in Applied Mathematics I (Summer 2018)

Instructor: Dr. Tingwen Huang

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**Lecture Time and Location for Section 300:** UMTWR 2:15PM-3:20PM (Room 209)

**Office Hours:** UMTWR 3:30PM-4:30PM or by appointment.

**Course (catalog) Description:** This is an advanced course in linear algebra and multivariate calculus. Topics to be covered include systems of linear equations, matrices, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, diagonalization, inner product spaces, orthogonal functions; vector analysis, including gradient, divergence, curl, line and surface integrals, Gauss', Green's and Stokes' theorems.

**Prerequisites:** Math 251; Math 308 or concurrent enrollment therein.

**Textbook:** Leon/Colley, Linear Algebra and Vector Calculus at Texas A&M University, Pearson, Custom Publishing.

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

Exam 1 (June 5):	30%
Exam 2 (July 1):	30%
Exam 3 (TBA)	30%
WebAssign, Attendance, Quizzes:	10%

**Exams:** If you miss an exam, you must contact me within 48 hours of the exam. No make up exams will be given without an official university excuse.

**Quizzes:** In class, quizzes will be administered throughout the term. The lowest quiz grade (one quiz) will be dropped. **NO MAKE-UP QUIZ** for any reasons. If you do not miss any quizzes, you will receive 10 points bonus points in Quizzes category.

**Homework:** I will not collect the homework, but it is imperative that you work out the suggested homework problems to prepare for the exams and quizzes. Please schedule time for them.

**Academic Integrity Statement: Aggie Honor Code: “An Aggie does not lie, cheat, or tolerate those who do”.** Upon accepting admission to Texas A&M University, a student

immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the Texas A&M University community from the requirements or the processes of the Honor System. For additional information please visit: [www.tamu.edu/aggiehonor/](http://www.tamu.edu/aggiehonor/)

**Disability Services:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact your academic advisor, please contact the Department of Student Life, Services for Students with Disabilities.