MATH 314.002: CALCULUS III
SPRING 2018

CONTACT INFORMATION:


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| OFFICE HOURS | : MW 12:00-1:50p (BIN 314), and TR 12:00-12:50p (BIN 314), otherwise by appointment |


DESCRIPTION AND POLICIES:

1. CLASS SCHEDULE: TR 2:00-4:20p, BIN 302. Please attend the conveniently scheduled **office hours** for all questions.

2. TEXTBOOK: Calculus by Stewart, 8th edition, ISBN: 9781285740621.

3. WEBSITE & INTERNET: An **eCollege website** has been created for the course which may be accessed from student myLEO accounts following the eCollege and then **My Courses** tabs. All files and documents, lecture notes and outlines, links to video content, and software modules that the instructor shares with the class will be posted in the Doc Sharing folder in the course website. All material posted or shared at the course website is **copyrighted** ©. You are allowed to retain one copy of each file for your personal use, but the files should not be distributed in any form without instructor's written consent.

4. COURSE DESCRIPTION: Infinite series; vector-valued functions; partial derivatives; multiple integrals; the three dimensional geometry; Green's Theorem; Stokes's Theorem; Divergence Theorem. **Prerequisite** Math 192.

5. SOFTWARE: *Mathematica* software is **required** for the course. It will be used for carrying out computations in discussion sessions, homework exercises, exams and projects. Mathematica 11 may be installed in Mathematics computer lab in BIN 328, and in computer labs at the Metroplex center. **Personal student licenses** could be purchased online through the Wolfram Mathematica website (click here). Mathematica has recently introduced an **online version**. In principle, it should be the same with the desktop version, but the user interface looks different. You may use it at your own risk. We will be using the desktop version for all classroom presentations, and other activities. A TI-84 is recommended.

6. Tests & Projects: There will be **two tests/projects** (100 points each) and a **comprehensive final** (200 points). Test problems would be similar to homework exercises. Late work is not accepted. **No make-up** test will be given without an official, written, university accepted excuse. The student must contact the instructor the next working day and present the documented excuse to make up a test.

7. Homework: Homework will be assigned in **every class** meeting on a regular basis. Selected assignments and problems will be graded only, but all homework problems should be worked out. The assignments will be turned in **electronically** (in form of a Mathematica notebook) by due dates to the Dropbox for that week at the eCollege website. Student name and homework number should be printed at the top of each notebook. You may work in groups unless otherwise instructed, however the paper you turn in must be your own work. **Late homework** is not accepted. **Attendance** may be used instead of assignments for the homework score. Homework and/or attendance is worth **50 points** of the total semester grade.

8. Learning Outcomes: Students who complete this course successfully will
a) learn the **terminology** of multivariable calculus;
b) learn the **methods** used in multivariable calculus;
c) learn the **applications** of theoretical results to practical problems.

9. Tentative Course Outline: We plan to cover **all or parts of these topics** each week as time permits.

    0. Introduction to Mathematica (Week 1)
    1. Vectors and the Geometry of the Space (Week 1, 2, 3)
    2. Vector Functions (Week 4, 5, 6)
    3. Partial Derivatives (Week 7, 8, 9)
    4. Multiple Integrals (Week 10, 11, 12)
    5. Vector Calculus (Week 13, 14, 15)

10. Grade Distribution: All scores will be added and a **letter grade** will be assigned according to the following table.

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| A | 406 - 450 pts |
| B | 361 - 405 pts |
| C | 316 - 360 pts |
| D | 271 - 315 pts |
| F | 0 - 270 pts |

11. Tentative Exam Schedule:

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|---|---|---|---|
| Test 1 | 100 pts | Friday February 23, 2018 | in class |
| Test 2 | 100 pts | Friday April 13, 2018 | in class |
| Final | 200 pts | Tuesday May 8, 2018 | 1:15-3:15p |

12. Miscellaneous: Your enrollment in this course indicates that **you agree to observe** all the conditions and regulations of this syllabus and the Student Handbook. The test and homework scores may be filed to be used anonymously for educational research.

    It is the **student's responsibility** to secure the software licenses and other resources (such as a personal computer with proper operating system to run the software, broadband internet access, etc.) to be able to complete and communicate all assignments, tests and projects to the instructor as required. The access information to Library resources, and **Help Desk** for technical support are available through the eCollege website. You should contact Wolfram Mathematica **technical support line** listed on their website for all installation, licensing, and other technical questions.

    Policies pertaining to scholastic dishonesty are identical to TAMU-Commerce regulations given in the **Student Handbook**, available online at the university website (click here). All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment (See Student's Guide Handbook, Policies and Procedures, Conduct). Disruptive behavior (including use of electronic devices in classroom) and scholastic dishonesty in any form will not be tolerated.

    Campus Concealed Carry Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a **concealed handgun** in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in **restricted locations**. For a list of locations, please refer to the policy (click here) at the university website, and/or consult your event organizer. Pursuant to PC 46.035, the **open carrying of handguns is prohibited** on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 911.

    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 have a disability requiring

an **accommodation**, please contact: Office of Student Disability Resources and Services, Texas A&M University-Commerce, Gee Library, Room 132, Phone: (903) 886-5150 or (903) 886-5835, Fax: (903) 468-8148, or Email: `Rebecca.Tuerk@tamuc.edu`.

Mathematica software offers various **accessibility** features, such as a screen reader, etc. Please visit Accessibility statement in the Documentation Center of the software for a full listing of these features.

Nondiscrimination notice: Texas A&M–Commerce will comply in the classroom, and in online courses, with all federal and state laws **prohibiting discrimination and related retaliation** on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment **free from discrimination** on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Any **possible changes** to be made in this syllabus by the instructor during the semester will be announced in class or by email.