Math 42 Tufts University Fall 2019
Department of Mathematics
Calculus III

Sections, Instructors and Course ID's for MyMathlab:

01 (Block C) Adler **02** (Block D) Gonzalez **03** (Block F) Faubion

Course Website: For written assignments, exam reviews, and announcements see Canvas, `https://canvas.tufts.edu`. Updates and announcements to the syllabus will be posted and/or sent through Canvas. If you opt out of receiving messages from Canvas or if you do not check your Tufts e-mail, you may miss some important information.

Required materials for Math 42:

- MyMathLab (`https://pearsonmylabandmastering.com`) for Briggs, Cochran, & Gillett, Calculus: Early Transcendentals, **3nd Edition** with MyMathLab (ISBN: 9780321977298) is required. The textbook is available online via MyMathLab, and the hardcopy of the text is *optional*. MyMathlab IDs for the sections are:

Section	**Instructor**	**MyMathLab ID**
01	James Adler	adler70605
02	Fulton Gonzalez	gonzalez79046
03	Zac Faubion	faubion20217

  Before buying the MyMathLab access kit:
  - Check whether you already have an access code from previously having enrolled in a calculus course; access codes are valid for more than a semester.
  - Use free temporary access (for about two weeks) while deciding whether to stay in the course or not.
  - If your financial situation is such that the expense for the access code is prohibitive, please visit, `https://tufts.qualtrics.com/jfe/form/SV_bCniQl9sC8mMcpD`, and use a free temporary access code until you get a response (some time after the add period).
  - If you have an access code from a previous calculus course that is associated with the 2nd edition of the book, the publisher will endeavor to help with any resulting access issues. Check with your instructor.
- Piazza (`piazza.com/tufts/fall2019/math0042`).

Exams: There will be two in-class exams, one midterm exam, and a cumulative final.

Exam 1:	Sections 1,3: 9/27, Section 2: 9/30	**in class.**
Midterm:	Monday October 28th	**room TBA**.
	Your midterm is scheduled in the open block, not during your normally scheduled class.	
Exam 2:	Sections 1,3: 11/19 Section 2: 11/21	**in class**.
Final Exam:	Friday December 13, 8:30-10:30 AM	**room TBA**.

Workload and assignments:

(1) **Online homework** is assigned for each lecture, through the MyMathLab website. See instructions and MyMathLab codes above to register for your section. All on-line assignments are due at 11:59 pm on the day of the following lecture. Try the assignment before the next class. This will give you a chance to ask questions in class, during recitations or during office hours if you have difficulties with a particular problem. You can still submit late assignments till the end of reading period but you will lose 20% of the credit if an assignment is late. No assignments will be accepted after the end of reading period. No grades will be dropped. While this is an online assignment, we recommend that you write out complete solutions to the problems before entering the answer online. This will provide practice for the written homework and exams. If you find yourself relying on the hints that the system gives on-line, it is likely to be a sign of incomplete understanding of the material. Please seek help during office hours, recitations, and by asking questions in class.

(2) **Written homework** (WH) is assigned (approximately) weekly. These written take-home assignments are designed to challenge your understanding and give you realistic feedback on exam level questions. The lowest grade will be dropped and the final WH average will be the average of the remaining scores. WH will be collected during recitation and will NOT be accepted late.

(3) **Class attendance** is not required but you are highly encouraged to come to every class. You are responsible for all material covered in each lecture and recitation.

(4) **Recitation attendance and participation:** You should be enrolled in one recitation section meeting once a week. During recitation, you will have the opportunity to work and discuss questions related to the material of the week.

Missing an exam: Excused absences are allowed only in exceptional circumstances, i.e., severe illness the day of the exam or family emergency. Proper documentation from a health service professional or a university official is required (see http://math.tufts.edu/courses/examPolicy.htm). If you miss a midterm exam and do not receive an excused absence it will be counted as a zero.

Grades: Suppose that H is the average score of the written homework (after dropping the lowest grade), O is the on-line homework score, E is the average of your two in-class exams, M is the midterm exam score, and F stands for the final exam score. Your course average is the larger of these two numbers:

$$0.15H + 0.10O + 0.25E + 0.25M + 0.25F \quad \text{or} \quad 0.15H + 0.10O + 0.20E + 0.20M + 0.35F$$

The course average is converted into a letter grade according to the standard conversion in the Mathematics Department, which can be seen here
`http://math.tufts.edu/courses/gradingSchemes.htm`.

Learning Objectives: This course satisfies Learning Objective in Mathematics 1 and 3 as listed at `https://ase.tufts.edu/faculty/committees/objectives/math.htm`, especially 1a, 1e, 3a, 3d.

Student Accessibility Services:

Tufts University values the diversity of our students, staff, and faculty, recognizing the important contribution each student makes to our unique community. Tufts is committed to

providing equal access and support to all qualified students through the provision of reasonable accommodations so that each student may fully participate in the Tufts experience. If you have a disability that requires reasonable accommodations, please contact the Student Accessibility Services office at Accessibility@tufts.edu or 617-627-4539 to make an appointment with an SAS representative to determine appropriate accommodations. Please be aware that accommodations cannot be enacted retroactively, making timeliness a critical aspect for their provision.

Sexual Misconduct/Sexual Assault Statement:

Sexual Misconduct, including Sexual Assault, is a form of discrimination based on sex or gender that violates federal Title IX regulations and is prohibited by Tufts policy. Tufts is committed to providing an education and work environment that is free from sexual misconduct (see Tufts Policy on Sexual Misconduct and Nondiscrimination). Federal law, state law, and Tufts policy require that sexual misconduct (sex/gender discrimination, sexual harassment, sexual assault, sexual exploitation, stalking, as well as relationship, dating and domestic violence) are subject to the same kinds of support and same accountability measures as any other protected category. For more information about protected categories, please see the Tufts non-discrimination statement.

If you or someone you know has been harassed or assaulted, you may contact the Office of Equal Opportunity at (617) 627-3298 or file an anonymous complaint at http://tufts-oeo.ethicspoint.com/ For anonymous resources and support please go to OEO's resource page. You may also call in confidentiality the Tufts Counseling and Mental Health services at (617) 627-3360 or Tufts' Ears for Peers at (617) 627-3888 during business hours, or the Boston Area Rape Crisis Center at (800) 841-8371 all day every day.

Important dates :

- Tuesday, 9/17 is the last day to add a course;
- Tuesday, 10/8 is the last day to drop a course without a W (unless you are a first-year student);
- Tuesday, 11/12 is the last day for first-year students to drop a course without a W;
- Tuesday, 11/12 is the last day to select PASS/FAIL;
- Thursday, 12/12 is the end of reading period and the last day when you can submit on-line homework.

MATH 42 SPRING 2019 COURSE SYLLABUS

Lecture	Section	Topic	01-C	02-D	03-F
1	13.1, 13.2	Intro. to Vectors	9/3	9/3	9/3
2	13.3	Dot Products	9/4	9/5	9/5
3	13.4	Cross Products	9/6	9/9	9/6
4	13.5, 14.1	Lines and Curves	9/10	9/10	9/10
5	14.2, 14.3	Vector Functions, Motion	9/11	9/12	9/12
6	14.4, 13.5	Arc Length, Planes	9/13	9/16	9/13
7	13.5, 13.6, 15.1	Surfaces, Graphs	9/17	9/17	9/17
8	15.3	Partial Derivatives	9/18	9/19	9/19
9	15.4, 15.5	Chain Rule, Directional Derivative	9/20	9/23	9/20
10	15.5	Gradients	9/24	9/24	9/24
11	15.6	Tangent Planes	9/25	9/26	9/26
12		**Exam 1**	9/27	9/30	9/27
13	15.7	Max/Min Problems	10/1	10/1	10/1
14	15.7	Max/Min Problems	10/2	10/3	10/3
15	15.8	Lagrange Multipliers	10/4	10/7	10/4
16	16.1	Double Integrals	10/8	10/8	10/8
17	16.2	Double Integrals	10/9	10/10	10/10
18	16.3	Double Integrals (Polar)	10/11	10/15	10/11
19	16.4	Triple Integrals	10/16	10/17	10/17
20	16.5	Triple Integrals (Cylindrical)	10/18	10/21	10/18
21	16.5	Triple Integrals (Spherical)	10/22	10/22	10/22
22	16.7	Change of Variable	10/23	10/24	10/24
23	17.1, 17.2	Vector Fields, Line Integrals	10/25	10/28	10/25
Midterm: Monday, October 28th, 12:00–1:20 p.m.					
24	17.2	Line Integrals	10/29	10/29	10/29
25	17.3	Conservative Fields	10/30	10/31	10/31
26	17.3	Conservative Fields	11/1	11/4	11/1
27	17.4	Green's Theorem	11/5	11/5	11/5
28	17.4	Green's Theorem	11/6	11/7	11/7
29	17.5	Div, Curl	11/8	11/12	11/8
30	17.5	Div, Curl	11/12	11/14	11/12
31	17.6	Parametric Surfaces	11/13	11/18	11/14
32	17.6	Surface Integrals	11/15	11/19	11/15
33		**Exam 2**	11/19	11/21	11/19
34	17.6	Surface Integrals	11/20	11/25	11/21
35	17.6	Surface Integrals	11/22	11/26	11/22
36	17.7	Stokes' Theorem	11/26	12/2	11/26
37	17.7	Stokes' Theorem	12/3	12/3	12/3
38	17.8	Divergence Theorem	12/4	12/5	12/5
39	17.8	Divergence Theorem	12/6	12/9	12/6
Final Exam: Friday December 13th 8:30-10:30 AM					