

**MATH 2210-1 CALCULUS III, SPRING 2021**  
**MWF 2:00-2:50 PM, IVC CLASS VIA ZOOM**

**Instructor:** Gordan Savin

- Email: savin@math.utah.edu
- Zoom ID: 926 705 9662
- Office: LCB 205
- Phone: 801 809 4817
- Accessibility and Support: Office hours: MWF 11-12 by zoom. You can also contact me by phone or email, and we can arrange a zoom meeting at other time.

**Course Description:** 3 Credit Hours. Prerequisites: "C" or better in (MATH 1220 OR MATH 1250 OR MATH 1320) OR AP Calculus BC score of at least 4.

**Requirement Designation:** Quantitative Reasoning (Math & Stat/Logic)

**Course details:** The goal of this course is to cover (parts of) Chapters 11-14 in *Calculus* by Varberg, Purcell and Rigdon, ninth edition, ISBN 0-13-230633-6. A way to purchase this book (perhaps with some discounts) is

<http://www.math.utah.edu/schedule/bookInfo/>

Topics covered include vectors in the plane and in 3-space, differential calculus in several variables, integration and its applications in several variables, vector fields and line, surface, and volume integrals. Green's and Stokes' theorems.

**Course expectation:** Student should learn and be able to perform the following:

- Basic linear algebra operations in two and three dimensions.
- Analyze critical points of functions of two variables: minima, maxima and saddle points.
- Use Lagrange multipliers.
- Integrate functions of two and three variables, in particular, compute volumes of three dimensional solids.

**Important dates:** No instruction on Monday, 02/15, Friday 03/05 and Monday 04/05. We may use the time slot designated for the final exam, for the fourth exam, depending on the need.

**Communication:**

- All course materials, such as lecture slides, assignments, solutions, grades, etc. will be posted on the Course Canvas site. Class announcements will be done via email through the Canvas server. You will be responsible for any information contained in them as well as the information announced in class.

- It is your responsibility to also regularly check your Umail (make sure you set up forwarding if you do not check it regularly), your Umail is the only way for me to communicate privately with you, there will be occasions during the semester that we may need to reach out to you individually (e.g. regarding a grade or assignment) and it is in your best interest to respond promptly.
- Feel free to contact me by email for questions at savin@math.utah.edu, I will do my best to answer emails promptly. I would like to encourage you to email me only if it is something personal that requires individual attention, if instead you have questions about logistics of the class, course material and assignments, and anything else your classmates may wonder as well, please post a question on the Discussions Board instead. This way the information is shared quickly to the entire class, and each of you can benefit from seeing other classmates questions.
- I will always do my best to ensure the communication relevant to the course is clear and transparent, it is your responsibility as well to keep yourself updated by regularly checking: the announcements on Canvas, your Umail, the posts on the Discussions Board, and pay attention to the announcements given in class and Discussion Section.
- Course Canvas Page: Students are expected to log in and check canvas everyday for posted announcements and assignments. Students are also strongly advised to set up notifications for canvas so they do not miss any important notifications.

### Homework and Grading

- Homework: We will use the program WebWork, but that should run through Canvas. There will be about 7 WebWork assignments. WebWork allows you to enter an answer multiple times, and will tell you if an answer is correct or not. Every assignment will open at a fixed day of the week (to be determined), and you must complete the assignment by a fixed day of the following week. More details to follow.
- Exams: The four exams will follow Chapters 11, 12 and 13 and 14. There will be no cumulative final exam. The exam dates have not yet been fixed. The four exams will follow Chapters 11, 12 and 13 and 14. There will be no cumulative final exam. Each exam will be preceded by a sample exam, which should give you a very good idea about the topics and types of problems appearing on the exam. Exams will be delivered via Canvas.
- Grade: The grade will be based on three components: WebWork Homework 20%, four one hour exams 20%. Approximate grade scale: A (93-100), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), E (0-59).

**Tutoring:** There is free tutoring in the T. Benny Rushing Mathematics Student Center (room 155, the lower level between JWB and LCB), as well as a computer lab. For more information see <http://www.math.utah.edu/undergraduate/mathcenter.php>

**Accommodation:** The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services (CDS), 162 Olpin Union Building, 581- 5020 (V/TDD). CDS will work with you and me to make

arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to CDS.

**Student Code:** Students are encouraged to review the Student Code for the University of Utah: <https://regulations.utah.edu/academics/6-400.php>. In order to ensure that the highest standards of academic conduct are promoted and supported at the University, students must adhere to generally accepted standards of academic honesty, including but not limited to refraining from cheating, plagiarizing, research misconduct, misrepresenting one's work, and/or inappropriately collaborating. A student who engages in academic misconduct as defined in Part I.B. may be subject to academic sanctions including but not limited to a grade reduction, failing grade, probation, suspension or dismissal from the program or the University, or revocation of the student's degree or certificate. Sanctions may also include community service, a written reprimand, and/or a written statement of misconduct that can be put into an appropriate record maintained for purposes of the profession or discipline for which the student is preparing.

**The Americans with Disabilities Act:** The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability and Access, 162 Olpin Union Building, 801-581-5020. CDA will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in alternative format with prior notification to the Center for Disability and Access.

**Addressing Sexual Misconduct:** Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted on the basis of your sex, including sexual orientation or gender identity/ expression, you are encouraged to report it to the University's Title IX Coordinator; Director, Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or to the Office of the Dean of Students, 270 Union Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to police, contact the Department of Public Safety, 801-585-2677(COPS).

**Campus Safety:** The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit [safeu.utah.edu](http://safeu.utah.edu)