

Syllabus

Instructor: Valmir Bucaj

Class Hours: MTWRF: 10:30am-12:05pm @ HBH 453

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Office Hours: MWF 1:00-2:00pm @ HBH 40 or by appointment

Course Description: In this class we will generalize concepts from Calculus 1 and 2 to higher dimensions. We will use vectors to study properties of both real-valued functions and vector-valued functions. We will also study line integrals, multiple integrals, and surface integrals, as well as important theorems such as Green's theorem, Stokes' theorem, and Gauss' divergence theorem.

Course Expectations: This is a challenging class normally, but taken during the summer it will likely be even more of a challenge. Please expect to spend a minimum of two hours per hour of class working outside of the classroom. I expect you to attend every class and to arrive on time. It is your responsibility to keep informed of any announcements, syllabus adjustments, or policy changes made during scheduled classes. Not all announcements will be posted on the website, that is, some of the announcements might be made only during the class period, so it is your responsibility to obtain such information.

Course Materials: James Stewart: Calculus Early Transcendentals 8E.

Website: <http://vbucaj.weebly.com/teaching>

Homework: There will be homework due every day at the beginning of class. Homework will be posted on the course webpage. Working together is encouraged, however, each student must write up their homework on their own. Homework must be legible and the answers should be both well justified and clearly indicated.

Late homework will NOT be accepted for ANY reason. However, I will drop two of your lowest scores.

Quizzes: Each week there will be a short quiz at the beginning of class. So, there will be a maximum of five quizzes for the entire course. The quizzes will be short and mainly focus on concepts, so as such their purpose is mainly to test your conceptual understanding of the material taught that week. There will be a bonus question on each quiz for extra credit.

Exams: This class will have two midterms (*tentative dates* 7/7 and 7/21) and one final exam (7/28) the afternoon on the last day of class. The final exam will be comprehensive and it will be three hours. More details will be announced closer to each exam date. If you have a conflict with any of these dates, please discuss it with me well in advance and we will find a solution.

Class Participation: Attendance is not required, however it is strongly encouraged for this is a very fast paced class and it is easy to fall behind. Moreover, there will often be group work in class where I expect each of you to actively participate in order to get full *class participation* credit.

WARNING: It is the policy of the Math Department that NO final exam may be given early to accommodate ANY student's travel plans. If you make travel plans that later turn out to conflict with the scheduled exam, then it is your responsibility to either change your travel plans or take a zero in your final exam!

Grading:

- Class Participation: 5%
- Homework: 15%
- Midterms: 20% (each)
- Quizzes: 10%(total)
- Final Exam: 30%

REMARK: There will be NO curving for this class (at least not in the traditional sense)! However, if your final exam percentage is better than your lowest midterm percentage, then it will replace it. For example, if you got a 87 on your first midterm, a 35 on your second midterm, and a 98 on your final exam, then for the purpose of calculating your final grade, your second midterm grade would be a 98 instead of a 35. So, even if you completely bomb one of the midterms, in theory, you can still end up with an *A* in the class.

Tentative Course Schedule:	
Week 1:	12.1-12.6, 13.1-13.4
Week 2:	14.1-14.6 and Midterm 1(7/7)
Week 3:	14.7, 14.8, 15.1-15.5
Week 4:	15.6-15.8, 16.1-16.3 and Midterm 2(7/21)
Week 5:	16.4-16.9 and Final Exam

Disability Support: Support: Any student with a documented disability seeking academic adjustments or accommodations is requested to speak with me during the first two weeks of class. All such discussions will remain as confidential as possible. Students with disabilities will need to also contact Disability Support Services in the Allen Center.

Disclaimer: This is not a contract, so the instructor reserves the right to make changes to this syllabus, of which you will be notified in due time.