

Math 230 - Spring 2005

Calculus and Vector Analysis

Course Coordinator: Greg Bell

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Course Description: Three-dimensional analytic geometry; vectors in space; partial differentiation; double and triple integrals; integral vector calculus. Students who have passed either MATH 231 or 232 may not schedule MATH 230 for credit.

Prerequisite: MATH 141.

Textbook: *Calculus*, 5th Edition by James Stewart, published by Thomson-Brooks/Cole.

Examinations: Two 75-minute evening exams will be given during the semester and a comprehensive final examination will be given during the final examination period. **No books, notes or calculators may be used on the exams.** You must bring your University ID card to all exams. The two exams will be given as below.

Exam I: Feb 14, 6:30-7:45PM

Exam II: Mar 29, 6:30-7:45PM

The location of the exams will be announced in class later in the semester.

Conflict Exams: For the mid-semester exams there is a conflict exam from 5:05 to 6:20 PM on the same night as the regular examination. You must have a valid reason for taking the conflict exam, e.g. another exam or a scheduled class. You must sign up for the conflict exam at least 48 hours before the conflict exam is scheduled to begin. You must bring your University ID to the conflict exam. Although the conflict exam ends at 6:20, no student will be allowed to leave the conflict exam prior to 6:25 PM. Any student leaving the conflict exam before 6:25 PM will receive a zero on the exam and will not be permitted to retake it.

Makeup Exams: Students who have a valid documented reason, such as a class conflict or illness during both the regular exam and the conflict exam are permitted to schedule a makeup exam with no penalty. Students without a valid reason for missing the exam, are permitted to take the makeup exam with a 20 point penalty deducted from their score.

In order to take a makeup exam you must sign up with your instructor within 48 hours of the schedule exam. You must be prepared to verify the reason for taking the makeup. Students who have not signed up for the makeup will not be allowed to take it. Students must bring their University ID to the makeup exam.

No other makeup exams will be given

Final Examination: The final examination will be given during finals week, May 2-6. Because the date of the final exam will not be set until the middle of the semester, **do not make any plans to leave State College until after Friday, May 6th 2005.** There are two types of conflict exams for finals: direct conflict and overload conflict. A direct conflict occurs when there are two examinations scheduled at the same time. Students with a direct conflict should file for a conflict

exam with the Registrar in the Shields Building. An overload conflict occurs when three or more exams are to be taken in the same 15-hour period, from the beginning of the first exam to the end of the last. Students may elect to take all of their exams as scheduled or request a conflict exam through the Registrar.

Students wishing to file for a conflict final must do so at the Registrar's office between February 7 and February 20. Conflict finals cannot be scheduled by the mathematics department.

Students who miss the final exam will be allowed to take a makeup final examination. If the student missing the exam has a documented reason, no penalty will be imposed. If the student does not have a valid reason, 30 points will be deducted from the student's exam grade.

Homework/Quizzes: The individual instructors will decide the homework and quiz policy for their sections. The total score from your homework and quizzes will count the same as one mid-term exam.

Grading: Grades in this course are determined by your performance in each of the following categories:

Midterms: 100 points each

Final: 150 points

Homework and Quizzes: 100 points.

Academic Integrity: Penn State defines academic integrity as the pursuit of scholarly activity in an open, honest and responsible manner. All students should act with personal integrity, respect other students dignity, rights and property, and help create and maintain an environment in which all can succeed through the fruits of their efforts (Faculty Senate Policy 49-20). Dishonesty of any kind will not be tolerated in this course. Dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Students who are found to be dishonest will receive academic sanctions and will be reported to the University's Judicial Affairs office for possible further disciplinary sanction.

Access Statement: The Pennsylvania State University encourages qualified people with disabilities to participate in its programs and activities and is committed to the policy that all people shall have equal access to programs, facilities, and admissions without regard to personal characteristics not related to ability, performance, or qualifications as determined by University policy or by state or federal authorities. If you anticipate needing any type of accommodation in this course or have questions about physical access, please tell the instructor as soon as possible.

Tentative Schedule

January 10	Section 13.1	March 9	Spring Break
January 12	Section 13.2	March 10	Spring Break
January 13	Section 13.3	March 11	Spring Break
January 14	Section 13.4	March 14	Section 16.6
January 17	Section 13.5	March 16	Section 16.7
January 19	Section 13.5	March 17	Section 16.7
January 20	Section 13.6	March 18	Section 6.8
January 21	Section 13.7	March 21	Section 16.9
January 24	Section 14.1	March 23	Section 17.1
January 26	Section 14.2	March 24	Section 17.2
January 27	Section 14.3	March 25	Review
January 28	Section 14.3	March 28	Review
January 31	Section 14.4	March 29	Midterm II
February 2	Section 15.1	March 30	Section 17.2
February 3	Section 15.2	March 31	Section 17.3
February 4	Section 15.3	April 1	Section 17.3
February 7	Section 15.3	April 4	Section 17.4
February 8	Section 15.4	April 6	Section 17.4
February 9	Section 15.4	April 7	Section 17.5
February 10	Section 15.5	April 8	Section 17.5
February 11	Review	April 11	Section 17.6
February 14	Review - Midterm I	April 13	Section 17.6
February 16	Section 15.5	April 14	Section 17.7
February 17	Section 15.6	April 15	Section 17.7
February 18	Section 15.6	April 18	Section 17.8
February 21	Section 15.7	April 20	Section 17.8
February 23	Section 15.7	April 21	Section 17.9
February 24	Section 15.8	April 22	Section 17.9
February 25	Section 16.1	April 25	Section 17.10
February 28	Section 16.2	April 27	Review
March 2	Section 16.3	April 28	Review
March 3	Section 16.3	April 29	Review
March 4	Section 16.4		
March 7	Spring Break		
		Final Exam	to be determined