Catalog Description: Calculus and Vector Analysis (4 semester hours). Three-dimensional analytic geometry; vectors in space; partial differentiation; double and triple integrals; integral vector calculus. Students who have passed either Math 231 or Math 232 may not schedule Math 230 or Math 230H for credit.

Course Format: There are four 50-minute lectures each week. A rough schedule of the sections covered in lectures are listed at the end of this syllabus.


Calculators: Calculators are NOT allowed on quizzes, the midterms, or the final examination, and are not recommended for homework.

Midterm Examination: Two 75 minute evening examinations will be given outside the regular meeting time. The use of books, notes, and calculators is not allowed in examinations. You must bring your University ID card to all exams. The examinations will be given on:

<table>
<thead>
<tr>
<th>Midterm I</th>
<th>Tuesday, September 23rd</th>
<th>6:30-7:45pm</th>
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<tbody>
<tr>
<td>Midterm II</td>
<td>Tuesday, November 4th</td>
<td>8:15-9:30pm</td>
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Rooms for the examinations will be announced by your instructor at a later date and may also be found on the bulletin board outside 104 McAllister. Sample exams can be found at http://www.math.psu.edu/ug/courses/math230.

Conflict Examinations: For Midterm I, there is a conflict examination from 5:05 to 6:20 PM on September 23rd, the same night as the regular examination. For Midterm II, there is a conflict examination from 6:55 to 8:10 PM on November 4th.

Who may take the Conflict exam? If you have a valid conflict with the regular examination time, such as a class or another scheduled exam, you may sign up for the conflict exam. Personal business such as travel, employment, weddings, graduations, or attendance at public events such as concerts, sporting events, etc. is not a valid excuse.

How and when to sign up for the Conflict Exam: You must sign up for the Conflict Exam in class, with your instructor, on a pink form. Your instructor must turn in the pink form at least one week prior to the examination date. If you have not signed up with your instructor, you will not be allowed to take the conflict exam.
Instructions on Conflict Exam night. You are responsible for knowing the room and time of the Conflict Exam. You must bring your University ID to the conflict exam. The ID will be checked by the proctor. Although the Conflict Exam for Midterm I ends at 6:20 PM, no student will be permitted to leave the exam room before 6:25 PM. Any student who leaves before 6:25 PM will receive a grade of zero on the exam and will not be allowed to retake it.

Makeup Examinations: A makeup exam for Midterm I will be given from 6:30-7:45 PM, on September 29th. A makeup exam for Midterm II will be given from 6:30-7:45 PM, on November 12th.

Who may take the makeup exam? Students who have a valid documented reason, such as a class conflict or illness, during both the regular and conflict exam times are permitted to schedule a makeup examination with no penalty. You must be prepared to supply written documentation. If you do not have a valid reason for missing the examination (e.g. forgetting the date, time, or place of the examination), you are also permitted to schedule a makeup examination – however a 30 percent penalty will be applied to your exam score. However, if you took either the regular exam or the conflict exam, you may not take the makeup exam.

How and when to sign up for the Makeup Examination: You must sign up for the Makeup Exam in class, with your instructor, on a yellow form, as soon as possible following the regular exam date. You are responsible for knowing the room and time of the makeup exam. This information is on top of the yellow form. Your instructor must turn in the yellow form 2 class days prior to the exam date. If you have not signed up with your instructor, you will not be allowed to take the makeup exam. You must bring your University ID to the Makeup Examination.

Final Examination: The final examination will be given between December 15th and December 19th, 2014. The precise date and time of the final examination will be announced by the University Registrar during the semester. Do not plan to leave University Park until after Friday, December 19th.

Who may take the Conflict Examination? There are two types of conflict examinations, direct and overload. Direct conflicts are two examinations scheduled at the same time. Overload examinations are three or more examinations scheduled within a fifteen hour period, from the beginning of the first examination to the beginning of the third examination. You may elect to take the three or more examinations on the same day if you wish or request a conflict final examination.

How and when to sign up for the Conflict Examination: You may access your final exam schedule on Monday, September 29th, through your e-lion account. Notification of conflicts is given on your final exam schedule. You must take action to request a conflict exam through e-lion between September 29th and October 19th, if needed. Conflict final examinations cannot be scheduled through mathematics department, and there will be no sign up sheet in 104 McAllister for the conflict final examination. You must bring your University ID to the conflict examination.

Makeup Examination: Students who miss or cannot take the final examination due to a valid and documented reason, such as illness, may be allowed to take a makeup final examination. Personal business, such as travel, employment, weddings, graduations, or attendance at public
events such, as concerts, sporting events are not valid excuses. Forgetting the date, time or room of an examination is not a valid excuse. Without a documented, valid excuse, you may not take the makeup examination. All such makeup examinations must be arranged through the instructor with the approval of the course coordinator, and students in such a situation should contact their instructor within 24 hours of the scheduled final examination.

Late-Drop: Students may add/drop a course without academic penalty within the first ten calendar days of the semester. A student may late drop a course within the first twelve weeks of the semester but accrues late drop credits equal to the number of credits in the dropped course. A baccalaureate student is limited to 16 late drop credits. The late drop deadline for Fall Semester 2014 is November 14th.

Course Grades: Your course grade will be determined by your exam and sections scores, according to the following breakdown:

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<table>
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<tbody>
<tr>
<td>Examination I</td>
<td>100</td>
</tr>
<tr>
<td>Examination II</td>
<td>100</td>
</tr>
<tr>
<td>Homework and Quizzes</td>
<td>100</td>
</tr>
<tr>
<td>Final Examination</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>450</strong></td>
</tr>
</tbody>
</table>

Tutors and the Learning Center: Free mathematics tutoring is available at the Penn State Learning Center (www.PennStateLearning.psu.edu/tutoring/mathematics) located in 7 Sparks Building from 6pm—7pm, Sunday to Thursday. If you need extra help, a list of paid tutors maintained by the Mathematics Department Undergraduate Office is available at www.math.psu.edu/ug/PrivateTutorList.htm.

Students with Disabilities: Penn State welcomes students with disabilities into the University’s educational programs. If you have a disability-related need for reasonable academic adjustments in this course, contact the Office for Disability Services (ODS) at 814-863-1807 (V/TTY). For further information regarding ODS, please visit the Office for Disability Services Web site at http://equity.psu.edu/ods/.

In order to receive consideration for course accommodations, you must contact ODS and provide documentation (see the guidelines at http://equity.psu.edu/ods/guidelines/documentation-guidelines). If the documentation supports the need for academic adjustments, ODS will provide a letter identifying appropriate academic adjustments. Please share this letter and discuss the adjustments with your instructor as early in the course as possible. You must contact ODS and request academic adjustment letters at the beginning of each semester.
**Academic Integrity:** Academic integrity is the pursuit of scholarly activity in an open, honest and responsible manner. Academic integrity is a basic guiding principle for all academic activity at The Pennsylvania State University, and all members of the University community are expected to act in accordance with this principle. Consistent with this expectation, the University’s Code of Conduct states that 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.

Academic integrity includes a commitment not to engage in or tolerate acts of falsification, misrepresentation or deception. Such acts of dishonesty violate the fundamental ethical principles of the University community and compromise the worth of work completed by others.

“Academic dishonesty includes, but is no limited to, cheating, plagiarizing, . . . , 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 academic work of other students. . . . A student charged with academic dishonesty will be given oral or written notice of the charge by the instructor. If students believe that they have been falsely accused, they should seek redress through informal discussions with the instructor, the department head, dean or campus executive officer. If the instructor believes that the infraction is sufficiently serious to warrant the referral of the case to Judicial Affairs, or if the instructor will award a final grade of F in the course because of the infraction, the student and instructor will be afforded formal due process procedures.” –From Policies and Rules, Student Guide to the University Policy 49-20
Course Outline: A rough schedule of the topics covered are as follows:

Week 1: 8/25-8/29
- Monday: Introduction
- Wednesday: 12.1
- Thursday: 12.2
- Friday: 12.3

Week 2: 9/1-9/6
- Monday: Labor Day; no lecture
- Wednesday: 12.4
- Thursday: 12.5
- Friday: 12.5

Week 3: 9/8-9/12
- Monday: 12.6
- Wednesday: 13.1
- Thursday: 13.1-2
- Friday: 13.2

Week 4: 9/15-9/19
- Monday: 13.3
- Wednesday: 13.3
- Thursday: 13.4
- Friday: 14.1

Week 5: 9/22-9/26
- Monday: Midterm Review
- Tuesday: Midterm I
- Wednesday: 14.2
- Thursday: 14.3
- Friday: 14.4

Week 6: 9/29-10/3
- Monday: 14.4-5
- Wednesday: 14.5
- Thursday: 14.6
- Friday: 14.6

Week 7: 10/6-10/10
- Monday: 14.7
- Wednesday: 14.7
- Thursday: 14.8
- Friday: 15.1

Week 8: 10/13-10/17
- Monday: 15.2
- Wednesday: 15.3
- Thursday: 15.3
- Friday: 15.4
Week 9: 10/20-10/24
- Monday ................................................................. 15.5-6
- Wednesday ............................................................ 15.7
- Thursday ............................................................. 15.8
- Friday ................................................................. 15.8-9

Week 10: 10/27-10/31
- Monday ................................................................. 15.9
- Wednesday ............................................................ 16.1
- Thursday ............................................................. 16.2
- Friday ................................................................. Review

Week 11: 11/3-11/7
- Monday ................................................................. Review
- Tuesday ................................................................. Midterm II
- Wednesday ........................................................... 16.2
- Thursday ............................................................. 16.3
- Friday ................................................................. 16.3

Week 12: 11/10-11/14
- Monday ................................................................. 16.4
- Wednesday ........................................................... 16.4
- Thursday ............................................................. 16.5
- Friday ................................................................. 16.5

Week 13: 11/17-11/21
- Monday ................................................................. 16.6
- Wednesday ........................................................... 16.6
- Thursday ............................................................. 16.7
- Friday ................................................................. 16.7

Week 14: 11/24-11/28 ................. Thanksgiving Break; no lectures

Week 15: 12/1-12/5
- Monday ................................................................. 16.8
- Wednesday ........................................................... 16.8
- Thursday ............................................................. 16.9
- Friday ................................................................. 16.9, Review

Week 16: 12/8-12/12
- Monday ................................................................. Review
- Wednesday ............................................................ Review
- Thursday ............................................................. Review
- Friday ................................................................. Review

Final Exam ......................................................... TBA

Questions, Comments: If you have questions or concerns about the course, please consult your instructor first. If further guidance is needed, you may contact the course coordinator:

Maximilian Metti
msm37@psu.edu
309 McAllister Building
814-863-6398
Time and Place:

- Section 001 MWRF 8.00-8.50, 273 Willard.
- Section 031 MWF 11.15-12.05, 108 Hend and R 11.15-12.05, 073 Willard.

Prerequisites: MATH 141 or MATH 141H. Students who have passed either Math 231 or 232 may not schedule Math 230 or 230H for credit

Homeworks: Homework problems will be assigned incrementally in every lecture and they will be collected on the following wednesday. I will also post the HW set and due date at [http://www.personal.psu.edu/jzh13/courses/hw230.pdf](http://www.personal.psu.edu/jzh13/courses/hw230.pdf). Late submissions will not be accepted under any circumstances. There will be a total of 13 homework sets and the three lowest grades will be dropped.

Quizzes: There will be a weekly 10-minutes quiz on every Friday. There will be no make-up quizzes under any circumstances. There will be a total of 13 quizzes and the three lowest grades will be dropped.

Grades: Here is our session grade distribution:

- Homeworks (50), Quizzes (50),
- Exam I (100), Exam II (100),
- Final Exam (150).

Your total will be translated into a grade as follows:

- A: 417-450,
- A-: 403-416,
- B+: 390-402,
- B: 372-389,
- B-: 358-371,
- C+: 345-357,
- C: 313-344,
- D: 268-312,
- F: 0-267.

There will be NO extra credit work and NO curves.