MA 141 Calculus with Analytic Geometry I

Fall 2018

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← This is where suggested practice problems will be posted.
Office Hours: M, W, F: 11:05 a.m. – 12:05 p.m. and Th: 1:20 – 2:20 p.m. Other office hours by appointment.
Topics: Selected from Chapters 7 – 10 and 13. See under comments, “description.”
Technology: A graphing calculator (TI-83 or 84) is required for computations and graphical displays during classes, exams, quizzes, and homework but NOT a cell phone calculator and NOT the TI-89, 92.
Grading:
1. (100) 11 Quizzes/Homework Assignments---10 points each. These will either be in-class quizzes, group quizzes or homework assignments. Homework assignments will not be accepted late. An announcement of an in-class quiz will be made during the preceding class. Each in-class quiz will typically consist of a few of the recent homework problems and/or problems similar to homework problems. Making up a new quiz for a student who has missed an in-class quiz is not one of my favorite activities. However, it MAY be possible to take an in-class quiz you missed, if you make arrangements with me to take it before it is returned to the rest of the class. Your lowest quiz/homework assignment score will be dropped.
2. (300) 3 Exams---100 points each. Scheduled:
   I. Friday, September 21, 2018
   II. Friday, October 19, 2018
   III. Friday, November 30, 2018
   These dates may be changed by an announcement in class at least one week in advance. Unless there is a very serious reason for your absence on the day of an exam, a grade of zero will be earned for the missed work. If it is necessary for you to be absent from an exam, please try to see me a few days in advance in order to make other arrangements. Students have one week (7 days) after assessments have been returned to correct grading issues.
   WARNING: Quizzes and exams will be challenging. Do not leave your preparation for them until the last minute!
3. Final Exam---150 points—Comprehensive Final Exam.
   Scheduled: TBA
   DO NOT MAKE TRAVEL ARRANGEMENTS UNTIL THE FINAL EXAM SCHEDULE HAS BEEN RELEASED. NO STUDENT WILL BE ALLOWED TO TAKE THE FINAL EXAM EARLY!
4. The grade you earn will be calculated via:
   Your total points in 1. + 2. + 3. = ______% ≥ 93 -- A; 90-92 -- A-; 87-89 -- B+; 83-86 -- B;
   550 80-82 -- B-; 77-79 -- C+; 70-76 -- C; 60-69 -- D; 0-59 -- F
Comments:
1. Description: Derivatives, integrals, applications; sequences and series, analytic geometry; polar coordinates. Sections: 7.1-7.4, 8.1-8.8, 9.1-9.10, 10.1-10.6, and, if time permits, 13.3.
2. Keep Current: Have a routine so that soon after class and before your next Calculus with Analytic Geometry II class, you have re-read whatever notes you took in class, read the appropriate sections from
your text, and have attempted the assigned problems. Suggested problems will be assigned during most classes.

**Note:** The ideal situation is to pre-read the material before it is discussed in class.

3. **Classes:** Class time will usually be devoted to lectures and practice; analyzing and understanding concepts, definitions, analyzing and understanding problems, solving problems, and going over homework. We will usually begin each class by answering questions students have on the homework assigned during the previous class. I look forward to significant class participation.

4. **Homework:** Every student is expected to attempt all homework problems. Suggested homework problems will be assigned each class. It is to your benefit to work through problems.

5. **Class Participation:**
   a. Come to class. You **MUST** attend all classes unless you have i. a family emergency, ii. personal **DOCUMENTED** sickness, or iii. a **DOCUMENTED** Penn State team sporting event. **Note:** Although attendance will not be taken, it is important for you to attend **ALL** classes and participate.
   b. Be on time or if you are late for some reason come into the room **QUIETLY**.
   c. Treat all classmates and me with respect.
   d. Actively participate in class discussions, group work, and board work.

6. **Difficulties with the Concepts and/or Problems:** Students are encouraged to do one or all of the following: a. try again; b. talk to fellow classmates about it; c. come to see me; d. email me; e. come to your next Calculus with Analytic Geometry I class prepared to ask questions; f. get tutoring from the math lab, located on the second floor of Roche Hall. For more information go to: [http://psbehrend.psu.edu/Academics/academic-services/lrc/tutoring](http://psbehrend.psu.edu/Academics/academic-services/lrc/tutoring).

7. **The Text:** The text is necessary to use during homework. Sometimes, the text will not be needed for class and/or homework. However, it is probably the main source of information along with class notes. Other math texts are available in the library.

8. **Notebook & Other Materials:** All students must maintain a notebook. A three-ring binder with plenty of loose leaf paper OR a notebook and an empty three ring binder for handouts that I have already hole punched to help keep you organized are required. Students also must have pen(s) or pencil(s), and a calculator. The notebook should contain notes students take during class, the notes students make while reading the text, solutions to homework problems, handouts from class, quizzes, and exams. Students’ notebook and text should be the basis for learning mathematical concepts.

9. **Cell Phones** and all similar electronic devices should be turned off and stored out of sight during all classes and assessments. **Anyone seen using a cell phone or other Internet connected device during an assessment will immediately be given a zero on the assessment, no exceptions.** I find it to be extremely rude and disrespectful to be texting and checking your phone during class. I reserve the right to lower your grade (-5 points for each offense) if I catch you texting and using your phone or any other devices during class.

10. **Final Grades:** I will grade your final exams and post grades on LionPath as soon as class ends. Please note, grades must be **EARNED**. If your final grade is, say 69%, please do NOT ask me to curve your grade to a C. This goes against Penn State policy and is **unethical**! One more thing, **DO NOT ASK FOR BONUS POINTS.**

**NOTE:** This syllabus is not set in stone. It can be changed due to campus cancellations, speed at which we go through material, amount of office hours, and the amount of homework assignments, quizzes, and exams.
ADDITIONAL PENN STATE UNIVERSITY POLICIES

Academic Integrity

Academic integrity is a basic guiding principle for all academic activity at the University, and all members of the community are expected to adhere to this principle. Specifically, academic integrity is the pursuit of scholarly activity in an open, honest, and responsible manner. It includes a commitment not to engage in or tolerate acts of falsification, misrepresentation, or deception. Such acts violate the fundamental ethical principles of the University community and undermine the efforts of others.

Violations of academic integrity are not tolerated at Penn State Behrend. Violators will receive academic sanctions and may receive disciplinary sanctions, including the awarding of an XF grade. In cases such as these, an XF grade is recorded on the transcript and states that failure of the course was due to an act of academic dishonesty. All acts of academic dishonesty are recorded so those repeat offenders can be sanctioned accordingly.

For more information: http://behrend.psu.edu/for-faculty-staff/faculty-resources/academic-integrity

Disabilities and Learning Differences

Penn State is strongly committed to providing full access to its programs and services for all individuals. The University encourages academically qualified students with disabilities to take advantage of the educational programs and accommodations offered at Penn State Behrend.

For more information: http://behrend.psu.edu/student-life/educational-equity-and-diversity/student-resources/students-with-disabilities-and-learning-differences

Educational Equity Concerns

Penn State takes great pride to foster a diverse and inclusive environment for students, faculty, and staff. Acts of intolerance, discrimination, harassment, and/or incivility due to age, ancestry, color, disability, gender, national origin, race, religious belief, sexual orientation, or veteran status are not tolerated and can be reported through Educational Equity at the Report Bias site: http://equity.psu.edu/reportbias/statement.

Counseling and Psychological Services

Students with academic concerns related to this course should contact the instructor in person or via email. Students also may occasionally have personal issues that arise in the course of pursuing higher education that may interfere with their academic performance. If you find yourself facing problems affecting your coursework, you are encouraged to talk with an instructor and to seek confidential assistance at the Penn State Behrend Personal Counseling Services at (814) 898-6504.

For more information: http://psbehrend.psu.edu/student-life/student-services/personal-counseling

Title IX

Penn State is committed to fostering an environment free from sexual or gender-based harassment
or misconduct. The Office of Sexual Misconduct Prevention and Response ensures compliance with Title IX, a federal law that prohibits discrimination based on the sex or gender of employees and students. Behaviors including sexual harassment, sexual misconduct, dating violence, domestic violence, and stalking, as well as retaliation for reporting any of these acts violate Title IX and are not tolerated. The University is also committed to providing support to those who may have been impacted by incidents of sexual or gender-based harassment or misconduct and may provide various resources and support services to individuals who have experienced one of these incidents.

For more information: http://titleix.psu.edu/ or http://titleix.psu.edu/resources-penn-state-erie-the-behrend-college/

**Copyright of Class Materials**

You may not share any information from this course (including notes and assignments) with others who are not currently registered for the course, nor post such information electronically without the permission of the instructor—this includes online note-taking/note-sharing services (See Penn State Administrative Policy AD-40). Also prohibited in the policy is the posting of audio, video, or photographs posted to social media sites or other publicly accessible resources. Unless you have my permission, you risk disciplinary sanctions.

Information contained on this page is subject to change.
Suggested (non-graded) Exercises from Text

7.1: 1-11 odd, 17-29 odd, and 31-41 odd.
7.2: 1-35 odd.
7.3: 1-29 odd.
7.4: 3-15 odd, 31, and 37-45 odd.
8.1: 1-45 odd and 57-63 odd.
8.2: 1-29 odd and 39-47 odd.
8.3: 1-31 odd, 41-45 odd, and 57-63 odd.

Exam I covers sections 7.1-7.4, 8.1-8.3

8.4: 1-11 odd and 17-45 odd.
8.5: 1-25 odd.
8.6: 1-11 odd and 17-45 odd.
8.7: 5-41 odd, 43-59 odd, and 65.
8.8: 1-11 odd and 17-47 odd.

Exam II covers sections 8.4-8.8, 9.1-9.2

9.4: 3-11 odd and 13-29 odd.
9.5: 5-53 odd and 69-81 odd.
9.6: 13-71 every other odd, 83-91 odd, 101, and 103.
9.7: 13-29 odd, 33, 41-51 odd, and 53.
9.8: 1-33 odd and 41-47 odd.
9.9: 5-25 odd and 31-37 odd.
9.10: 1-29 odd, 33, 41-51 odd, and 53.
10.1: 7-21 odd, 23-47 odd, and 51-57 odd.
10.2: 1-33 every other odd.

Exam III covers sections 9.3-9.10, 10.1-10.2

10.4: 1-19 odd, 23-41 odd, 59, and 69-87 odd.
10.5: 5-15 odd and 51-55 odd.
13.3: 7-37 every other odd.

Final Exam covers all sections listed above.

All suggested homework exercises are located in our text.