

*Instructor:* Dr. Brian Heck  
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**Prerequisites:** Math 165 (with a grade of C or better)

**Text:** Calculus (8th ed.) by Varberg, Purcell, Rigdon (Prentice Hall)

**Calculator:** We will at times make use of calculator technology. You will need to have a scientific calculator and be able to use it efficiently.

**Course Description (catalog):** Transcendental functions, derivatives, integrals, analytic geometry, infinite series, and polar coordinates.

**Course Description (instructor):** Yep, that about covers it. Chapter 7 (transcendental functions) should be mostly review. Chapters 8 & 9 are more integration (like Chapters 5 & 6), but harder integrals requiring more sophisticated techniques. I consider these to be the most important sections of our semester. Chapters 10 & 11 are infinite series and numerical analysis, which I expect are new topics to everyone, so we will cover them carefully. Chapter 12 is analytic geometry (conic sections) and polar coordinates. These topics are probably a bit familiar to some students, but there is a good bit of new material here for everyone.

**Course Objectives:** To learn as much calculus as humanly possible in one semester, while at the same time developing intuition and an awareness of higher mathematics.

**Instructor Expectations:** Come to class prepared to learn. I expect a high degree of intellectual curiosity. In order to understand what we are doing in class, it will be necessary for you to do problems outside of class, and it would be beneficial to you to read the text prior to our covering the material in class. You will be required (on all turned in work, and all exams) to demonstrate knowledge and understanding of the material.

**Grading Policy:**

Problem Sets:	25%
Boardwork:	25%
Midterm Exam:	25%
Final Exam:	25%

**Grading Scale:**

A:	90% and above
B:	80% - 89%
C:	70% - 79%
D:	60% - 69%
F:	below 60%

**Attendance:** I will not include attendance as part of your course grade. I am not your mother or your parole officer, and this is not high school. I do, however, expect you to attend class everyday. You are responsible for any and all material covered in class. If you miss any class, it is up to you to meet with me (if necessary) and catch up on the material you missed. PLEASE do not bring me excuses for absences, as I have no need for them.

**Approximate Class Schedule:** Below is a list of the sections we will attempt to cover this semester. If time allows, more sections may be added. If time does not allow, some sections may be skipped.

*Chapter 7:* Sections 1, 3, 4, 5, 7, 8

*Chapter 8:* Sections 1 - 5

*Chapter 9:* Sections 1 - 4

**\*Midterm Exam Tuesday, July 3rd\***

*Chapter 10:* Sections 1 - 8

*Chapter 11:* Sections 1 - 3

*Chapter 12:* Sections 1, 2, 6 - 8

**\*\*Final Exam TBA\*\***

**Closing Remarks:** You are at a university, not a trade school. The goal is intellectual development and knowledge for knowledge sake. If you want to only learn what you need to get a job, go somewhere else.

Do not ask me why you need to learn the material we are currently studying. The answers are (1) because it will be on the final, (2) because this is what calculus is, and any course called Calculus II should cover this, and (3) because I say so. If during the semester you get the urge to ask me why we are learning something, re-read this paragraph. If you are still unsure, see (3) above.

It is assumed that you are attending this university because you have a desire for higher learning. It is therefore expected that you will pay attention, be respectful of your instructor and fellow students, and follow the Code of Student Conduct. Instances of academic dishonesty will be dealt with severely. If you are caught cheating, you will fail this course. Similarly, if you are a disruptive presence in the classroom, you will be dropped from the class.

**Important Dates:**

Final Date To Drop Courses With a "W" - **Wednesday, July 11**