Description: Transcendental functions, formal integration, polar coordinates, infinite sequences and series, parametric equations, with applications to the physical sciences and engineering.

Prerequisites: MATH 1131 or advanced placement credit for calculus (a score of 4 or 5 on the Calculus AB exam or a score of 3 on the Calculus BC exam). Recommended preparation: A grade of C- or better in MATH 1131.

Homework and WebAssign:

Homework: To access the homework you will have to go through Husky CT single sign-on. In your account you will find a link to do your homework using WebAssign. There will be homework assignments for each section of the text. Each assignment will be made available on WebAssign several days before the section is covered in class. The due date for each assignment will be set by your instructor and will generally be two or three days after the material is covered in class.**You will get five attempts for each question that is not multiple choice and fewer than five attempts for each multiple choice question; the exact number of attempts will depend on the number of choices.** After each attempt, you will be told whether your answer is correct or not. If you are not able to get the correct answer after your initial attempts, we recommend that you seek help from your instructor, the Q-Center, a tutor, or another student. If you miss the due date on homework you can get an extension for up to two days after the due date, but you will only be able to receive 50% credit for the homework. **Warning:** When accessing your online homework, **use Firefox or Chrome as your browser**; there are problems that can occur if you use Internet Explorer or Safari.Here.pdf is a document with tips on using WebAssign.

WebAssign Registration: The homework for Math 1132 is assigned online using the WebAssign online homework system. To access your homework online you must go to Husky CT.

Exams, Quizzes, and Worksheets:

Exams: The midterm exams in this course will be multiple choice, and as such there will be no partial credit on midterm exams. The final exam will be part multiple choice, part short answer. Look here for more detailed exam information in the future.

Quizzes: There will be weekly quizzes in discussion section that will cover material from the week before. These will not be multiple choice and therefor you will be able to get partial credit on Quiz questions.
On exam weeks you will get the opportunity to submit a “summary quiz” which is the previous quizzes that you have redone. Summary quizzes are graded on completion, so if you submit a complete summary quiz you will get an extra quiz grade of 10/10. If you do not submit a summary quiz, you will get an extra grade which is the average of your grades for the quizzes included in the summary quiz.

Worksheets: There will be weekly worksheets that you must turn in to your TA. Worksheets can be found in the Learning Activities section of this website.

Grading:

Quizzes	Weekly	Discussion	15%
Homework and Clicker	WebAssign	Online and Lecture	15%
Worksheets	Weekly	Discussion	5%
Exam 1:	Week 4	Wed or Thur discussion class	13%
Exam 2:	Week 8	Wed or Thur discussion class	13%
Exam 3:	Week 12	Wed or Thur discussion class	13%
Final Exam:		Common exam TBA	26%

Week	Date	Section	Topic
1	1/16		Administrative Information
		7.2	Trigonometric Integrals
		7.3	Trigonometric Substitution

2	1/22	7.1	Integration by Parts
		7.4	Integration by Partial Fractions
3	1/29	7.7	Approximate Integration
		7.8	Improper Integrals
4	2/5		Practice Exam (Review)
			Exam 1 (in Wed or Thur discussion class)
		6.4	Work (optional/ SNOW DAY)
5	2/12	11.1	Sequences
		11.2	Series
6	2/19	11.3	The Integral Test and Estimates of Sums
		11.4	The Comparison Tests
7	2/26	11.5	Alternating Series
		11.6	Absolute Convergence and the Ratio Test
8	3/5		Practice Exam (Review)
			Exam 2 (in Wed or Thur discussion class)
		11.8	Power Series

9	3/12		Spring Break
10	3/19	11.9	Representations of Functions as Power Series
		11.10	Taylor and Maclaurin Series
11	3/26	11.11	Applications of Taylor Polynomials
		9.1	Modeling with Differential Equations
12	4/2	9.3	Separable Equations
		8.1	Arc Length
13	4/9		Practice Exam (Review)
			Exam 3 (in Wed or Thur discussion class)
		10.1	Curves Defined by Parametric Equations
14	4/16	10.2	Calculus with Parametric Curves
		10.3	Polar Coordinates
15	4/23	10.4	Areas and Lengths in Polar Coordinates
			Review
16	4/30		FINAL EXAM TBA