Math 1132Q – UCONN at Stamford – Fall Semester 2026 – Calculus II – Room DWTN 132, Mondays and Wednesdays 1:25 pm – 3:05 pm

Instructor: Cristiano Husu, cristianohusu@sbcglobal.net, 203 329 0489, cristiano.husu@uconn.edu, Office Number 334, Webex room crh02006.

OFFICE HOURS at the end of each class

on Mondays, from 3:05 pm to 3:35 pm, room DWTN 132,

on Tuesdays, from 4:45 pm to 5:30 pm, room DWTN 108 and/or room 134,

on Wednesdays, from 3:05 pm to 3:35 pm, room DWTN 132,

on Thursdays, from 4:45 pm to 5:30 pm, room DWTN 108 and/or room 134,

Additional office hours by appointment schedule at the end of classes.

Textbook: *Extensive lecture notes of C. Husu, Homework files, Extra credit projects, Reviews for each examination*, posted on huskyct.uconn.edu, and, optional, the book *Calculus, Early Transcendentals* by J. Stewart.

Course Description: Formal integration, improper integrals, arc length, infinite sequences and series, parametric equations, polar coordinates using verbal (spoken and written), visual (geometric), precise numerical and analytic methods.

Prerequisites: Math 1131Q (recommended preparation a grade of C- or better) or advanced placement credit for calculus (score 4 or 5 on Calculus AB exam, or 3 on the Calculus BC exam). Verbal, geometric and numerical understanding of integration techniques, improper integrals, sequences and series.

To match individual expectations with the instructor's teaching tools and methods, a preliminary form on the goals, objectives, mathematics background and learning skills of each students will be completed by each students and collected by the instructor.

Classwork and Homework: WebAssign homework will be available *as a rote-learning tool* at huskyct.uconn.edu. *Specific classwork and homework files will be collected every 7 -12 days to track individual progress*. Our Stamford UConn Q-Center will help with routine WebAssign questions.

Grading Procedure: The course grade of each student will be determined by the sum of the following four numbers.

1) The number of points of the student's first examination, a number between zero and 20 points (as the first 20% of the course grade),

2) The number of points of the student's second examination, another number between zero and 20 points (as the second 20% of the course grade),

3) The number of points of the student's for classwork (class participation, speaking, reading and writing about number skills, algebraic display of information, visual, geometric and analytical reasoning) and homework, another number between zero and 20 points (as the third 20% of the course grade),

4) The number of points of the student's comprehensive final examination, on a date TBA, the remaining 40 points (as the remaining 40%. of the course grade).

Letter grades, A, B, C, D, F, will be the result of the following standard grading calculation:

grade A *corresponding to a total above 90 points,*

grade B *corresponding to a total between 81 and 90 points,*

grade C *corresponding to a total between 71 and 80 points,*

grade D *corresponding to a total between 61 and 70 points,*

grade F *corresponding to a total below 61 points*

No make-up examinations without proof of extenuating circumstances. (If you miss an examination, you will have to prove extenuating circumstances to the Office of the Dean of Students. If approved by the Office of the Dean of Students, you can be rescheduled the examination and/or extra work that will take the place of the missed examination.)

Note that, if you miss the final examination without a timely proof of extenuating circumstances, you will not reach the minimum number of points, 61, to receive a D grade, and, consequently, your course grade will be an F.

Day-by-day description of the course:

Week	*Date*	*Topic*	*Lecture notes*	*Examples and exercises*
1	8/31	**Introduction to Calculus II and to the integration by parts**		
1	9/2	**Integration by Parts**	**Lecture notes 1**	**Lecture notes 1ex**
	9/7	*Labor-day*		
2	9/9	**Trigonometric Integrals**	**Lecture notes 2**	**Lecture notes 2ex**
3	9/14	**Trigonometric Substitutions**	**Lecture notes 3**	**Lecture notes 3ex**
3	9/16	**Integration of Rational Functions - Lecture notes 4 and**		
			Lecture notes 4ex	
4	9/21	**Approximate Integration**	**Lecture notes 5**	
4	9/23	*Review for the first examination on integration by parts, trigonometric integrals, trigonometric substitutions, integration of rational functions and improper integrals*		
5	9/28	**Improper Integrals**	**Lecture notes 6**	**Lecture notes 6ex**
5	9/30	*First examination on integration by parts, trigonometric integrals, trigonometric substitutions, integration of rational functions and improper integrals*		
6	10/5	**Arc Length**	**Lecture notes 7**	
6	10/7	**Infinite Sequences**	**Lecture notes 8**	**Lecture notes 8ex**
7	10/12	**Infinite Series. Geometric Series**	**Lecture notes 9**	**Lecture notes 9ex**
7	10/14	**The Integral Test – p-series**	**Lecture notes 10**	**Lecture notes 10ex**

The day-by-day description of the course continues here, below:

Week Date Topic *Lecture notes - Examples and exercises*

8 10/19 **Strategy for testing series – Lecture notes 9 – 13**

8 10/21 **Comparison Tests Lecture notes 11 Lecture notes 11ex**

9 10/26 **Alternating Series Lecture notes 12 Lecture notes 12ex**

9 10/28 **Absolute Convergence - Conditional Convergence - Ratio Test - Root Test Lecture notes 13 Lecture notes 13ex**

10 11/2 *Review for the second examination on sequences and series*

10 11/4 **Power Series Lecture notes 14 Lecture notes 14ex**

11 11/9 *Second examination on sequences and series*

11 11/11 **Representations of Functions with Power Series - McLaurin Polynomials and Series - Taylor Polynomial and Series Lecture notes 15 Lecture notes 15ex**

12 11/16 **Taylor Polynomial and Series - Applications of Taylor Polynomials Lecture notes 16 Lecture notes 16ex Lecture notes 16+1**

12 11/18 **Introduction to Differential Equations - Separable Differential Equations - Lecture notes 18 Lecture notes 19**

13 11/23 and 11/27 Thanksgiving recess

14 11/30 **Curves defined by Parametric Equations Lecture notes 20 and Lecture notes 20ex**

14 12/2 *Review for the comprehensive final examination*

The day-by-day description of the course continues here, below:

Week Date Topic Lecture notes Examples and exercises

14 12/2 **Curves defined by Parametric Equations Lecture notes 20 and Lecture notes 20ex**

Extra credit project on the multiplication and division of power series in Lecture notes 23.

15 12/7 **Polar Coordinates - Lecture notes 21 and Lecture notes 21ex**

15 12/9 **Areas and Lengths in Polar Coordinates - Lecture notes 22**

On a date and time announced by the Registrar Office during the month of October, the comprehensive final examination which will cover the topics of the first examination, the second examination, the representations of functions with power series and the McLaurin and series.

The Registrar Office has announced the final exam date

Wednesday, December 10, 2025, from 8 am to 10 am in room 137.