

Calculus Syllabus (2101019) – 2026 Spring

Mon, Wed 10:15-11:30 @Common 203

TA Recitation : Thu 12:10-1:00 @Common 203

Instructor: Prof. Chi-Jen Wang Email: cjwang@ccu.edu.tw

Office: MATH 438

Office Hours: MW 9:10-10:00

TA Recitation: Thu 12:10-1:00 ° TA : TBA

Course Website: <https://ecourse2.ccu.edu.tw/>

Textbook: Calculus: Early Transcendental by James Stewart, Daniel Clegg, and Saleem Watson, 9th Edition. Cengage Learning. ISBN-13: 978-626-7533-06-2

Intellectual property rights: Do not illegally copy textbooks. (Followed the MOE Campus Intellectual Property Protection Action Plans)

Objectives: To enable students to clearly understand the basic concepts, rules, and requirements of mathematical proofs of calculus. Through the introduction of various examples, students can have a better understanding of calculus so that they can have a sufficient and solid mathematical foundation when studying professional courses in science and engineering related fields.

Through practical calculations of calculus, cultivate students' ability to use calculus to solve related mathematical problems and the requirement of mathematical rigor.

Contents: (1) Sequences and Series (2) Polar Coordinates and Vector Functions (3) Partial Derivatives (4) Multiple Integrals *(optional) Vector Calculus.

Attendance: Attendance is required for all lectures and recitation meetings. The student who misses a class meeting is responsible for any assignments and/or announcements made. Temporary class leave needs to inform the instructor in advance and submit the absent excuse form on school's student_off system within 7 days.

For exam leave, the request form must be completed two weeks in advance except the extended emergency, and approved by the course instructor before a make up exam can be taken. The absent without excuse form will lead 0.5 points deducted from their course grades in the category of Attendance. Office Hours are for asking questions related to the course and not for re-teaching content.

Grading Scale:

Category	Points	Notices
Exams	70	5 Exams, 14 points each
HW Presentation	4	

Online homework	15	Weekly online HW, 1 point each
Attendance	11	
Total points	100	

Exams: There will be four exams administered during recitation on the following Thursdays: Mar 19, Apr 16, May 14, Jun 4. And the last exam will be on Monday Jun 22nd 2026.

Calculator: You can use a scientific calculator (NOT a Tablet, Phones, nor Smart Watches) with the exponential & logarithmic functions during the exam. The calculator which can find the derivative, or integrate a function is not allowed.

HW Presentation: On non-exam Thursdays, students will present assigned questions in HW. The presentation schedule will be in order of student CCU ID number. 4 points will be awarded if the solving steps are successfully explained. If one student's HW presentation fails, the other students can answer and receive points.

Online homework: Online homework assignments will be due at midnight on the date listed on webassign.net. Please work ahead on the homework and keep up with the pace of the lectures. Late homework is never accepted for any reason.

Academic Honesty: Any cheating behavior must be reported to departments. CCU Academic Honor Code will be strictly adhered to in this class.

Learning Disability: It is the right of any student with a certified learning disability to request necessary accommodation. Such requests must be made well in advance of the time that the accommodation is required, ideally in the first or second week of class, and a letter of documentation from CCU's Resource Classroom must be presented at the time of any request. <https://specialedu.ccu.edu.tw/>

Resources: 1. Instructor/TA office hours.
2. Math Help Room , M-F, 12-2&4-6 @ Math 202.

Tentative 2026 Spring Schedule

Week	Date	Topics	Notice
1	Feb 23-27	6.5,11.1-11.2 Average Value, Sequences and Series	HW1
2	Mar 2-6	11.3-11.4 Integra Test, Comparison Test	HW2
3	Mar 9-13	11.5-11.7 Alternating Series, Ratio and Root Tests	HW3
4	Mar 16-20	11.8-11.10 Power Series, Taylor and Maclaurin Series	Test 1 on Mar 19 HW4
5	Mar 23-27	11.11, 10.1-10.2 Application of Taylor Polynomials, Parametric Curves	HW5
6,7	Mar 30-Apr 10	10.3-10.4, 13.1-13.2 Polar Coordinates, Polar Calculus, Derivatives and Integrals of Vector Functions	No Class on Apr 6 Online Class on Apr 8 No Recitation on Apr 9 HW6
8	Apr 13-17	14.1-14.2 Multiple Variable Functions, Limits and Continuity of Several Variables	Test 2 on Apr 16 HW7
9	Apr 20-24	14.3-14.4 Partial Derivatives, Tangent Planes and Linear Approximations	Online Class on Apr 20&22 HW8
10	Apr 27-May 1	14.5-14.6 Chain Rule, Directional Derivatives, Gradient	HW9
11	May 4-8	14.7-14.8 Extrema, Lagrange Multipliers	HW10
12	May 11-15	15.1-15.2 Double Integrals	Test 3 on May 14 HW11
13	May 18-22	15.3-15.4 Polar Double Integrals, Applications	HW12
14	May 25-29	15.5, 15.9 Surface Area, Change Variables	HW13
15	Jun 1-5	*16.2-16.3 Line Integrals and its Fundamental Theorem	Test 4 on Jun 4 HW14
16	Jun 8-12	*16.4 Green's Theorem	HW15
17	Jun 15-19	*16.6-16.7 Parametric Surface, Surface Integrals	
18	Jun 22-26	Final Week	Test 5 on Jun 22 Makeup Test on Jun 24

Any change will be announced on ecourse2.ccu.edu.tw