

WAYNE STATE UNIVERSITY
DEPARTMENT OF MATHEMATICS

COURSE SYLLABUS - FULL 2019

MAT 2020
CALCULUS II
(4 credits)

Section 006 (CRN: 10049): 4:30pm-6:10pm TT, 0123 State Hall

Instructor: Dr. Peimeng Yin

- Office: FAB 1163
- Office Hours: TT 2:50-4:15pm. Also the Math Resource Center located in room 1198 of the Faculty/Administration Building is an excellent place to get help.
- Email: pemyin@iastate.edu
- Course page: Canvas (Current Page: <https://pemyin.public.iastate.edu/teaching.html>)

Prerequisites: Calculus I (Mat 2010)

Textbook: Calculus, Early Transcendentals, 8e, (8th ed.) by James Stewart

Homeworks: Weekly, turn in every Tuesday at the beginning of the class.

Homeworks #1 : Exercise from textbook

\$5.3(Page 399) #4,7,11,14,29,42,43,52

\$5.4(Page 408) #3, 4, 6, 12, 18

\$5.5(Page 418) #2, 9, 21, 28, 64, 69

Homework #1 is due on Sep 10.

Topics to be covered:

- Chapter 5-8, 10,11, and sections 3.10 and 4.8
- Review definition of definite integral and fundamental theorem of calculus. Techniques of integration; approximate integration; improper integrals; applications of integration. Sequences and series. Approximating functions by polynomials and Taylor series.

Grading Policy: Grades will be kept on Canvas.

Exams (3)	45%
Final Exam	25%
Quizzes	10%
Homework	20%

The following gives the class percentage required to guarantee the described letter grade.

Grade	A	A-	B+	B	B-	C+	C	C-	D	F
Percentage	93	90	87	83	80	77	73	70	60	0

Attendance: Attendance is essential to the continual understanding of course material. It is your responsibility to attend the entire lecture punctually. Attendance will be a factor in determining borderline grades so you should put forth every effort to come to class and to come on time. This is a college course and I expect your behavior to reflect that.

Classroom etiquette: No usage of mobile phones.

Make-up Policy: There will be no make-up exams unless you have “excusable absence”. The only possible excuses are medical excuse, extra curricular activities as a representative of Wayne State University, armed forces deployment, or officially mandated court appearances, including jury duty. Official documentation is required in all cases (if you feel sick, go to a doctor).

Calculators: You can use calculators during lecture. However, calculators are not allowed for quizzes/exams.

Learning Outcomes:

- Compute integrals of a variety of functions, using various techniques including substitution, integration by parts, and partial fractions.
- Apply definite integrals to a variety of situations, including area and volume computations, arc length computations, and scientific applications.
- Study curves described by parametric equations.
- Use calculus to study geometry in polar coordinates.
- Determine whether a series converges or diverges.
- Compute Taylor series of functions.

Academic dishonesty: – Plagiarism and Cheating (edited statement from the DOSO's web site): Academic misbehavior means any activity that tends to compromise the academic integrity of the institution or subvert the education process. All forms of academic misbehavior are prohibited at Wayne State University, as outlined in the Student Code of Conduct <http://www.doso.wayne.edu/student-conduct-services.html>. Students who commit or assist in committing dishonest acts are subject to downgrading (to a failing grade for the test, paper, or other course-related activity in question, or for the entire course) and/or additional sanctions as described in the Student Code of Conduct.

Access Statement for Students with Documented Disabilities: If you have a documented disability that requires accommodations, you will need to register with Student Disability Services (SDS) for coordination of your academic accommodations. The Student Disability Services (SDS) office is located at 1600 David Adamany Undergraduate Library in the Student Academic Success Services department. SDS telephone number is 313-577-1851 or 313-577-3365 (TDD only). Once you have your accommodations in place, I will be glad to meet with you privately during my office hours to discuss your special needs. Student Disability Services' mission is to assist the university in creating an accessible community where students with disabilities have an equal opportunity to fully participate in their educational experience at Wayne State University.

Please be aware that a delay in getting SDS accommodation letters for the current semester may hinder the availability or facilitation of those accommodations in a timely manner. Therefore, it is in your best interest to get your accommodation letters as early in the semester as possible.

Harassment and discrimination: Wayne State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon race, ethnicity, sex (including sexual assault), pregnancy, color, religion, national origin, physical or mental disability, age, marital status, sexual orientation, gender identity, genetic information, or status as a U.S. veteran. Any student who has concerns about such behavior should contact his/her instructor, Student Assistance, or the Office of Equal Opportunity and Compliance at (313) 577-2280.

Religious accommodation: If an academic or work requirement conflicts with a student's religious practices and/or observances, the student may request reasonable accommodations. The request must be in writing at least 10 days in advance if possible, and the course instructor or supervisor will review the request. The student or the instructor may also seek assistance from the Dean of Students Office or the Office of Equal Opportunity and Compliance.