CENTRAL CONNECTICUT STATE UNIVERSITY
DEPARTMENT OF MATHEMATICAL SCIENCES
FALL 2024

COURSE: MATH 221 (01)

TITLE: CALCULUS II

PREREQUISITES: MATH 152 (C- or higher)

COURSE DESCRIPTION: This course continues the discussion of derivatives and integrals, including area between curves, volume, and arc length. It also covers techniques of integration, improper integrals, sequences, and infinite series.

INSTRUCTOR: Dr. Ivan S. Gotchev

EMAIL: gotchevi@ccsu.edu

OFFICE: MW 111

WEB PAGE: https://www.ccsu.edu/person/ivan-s-gotchev - on this page you can find as PDF files all handouts for this class. Also, in class, you will receive a hard copy of every handout.

OFFICE HOURS: MWF 10:00 – 10:40 am, 1:30 – 2:30 pm in MW 111, or by appointment

TEXTBOOK: OpenStax Calculus Volume 2. Download for free at https://openstax.org/details/books/calculus-volume-2 or use it online.

COVEREGE: Chapters 1, 2, 3, 5, 6 and 7 will be covered

SCHEDULE OF CLASSES: MWF 10:50 am – 12:00 pm in EDB 206

ATTENDANCE: The material covered by this course will be discussed and explained clearly in class and proper examples will be solved. Therefore, regular class attendance is very important.

EXAMINATIONS: There will be four tests during the semester, online homework using Edfinity.com, four take-home exams, and a cumulative final exam on Wednesday, December 11, from 10:30 am to 12:30 pm in EDB 206. The examination problems will be like those solved in class, included in the take-home exams, or given as online homework or suggested homework assignments.

HOMEWORK: The best way to learn mathematics is to solve as many problems as possible. In the list below are given suggested homework assignments that I advise you to solve for practice before solving your take-home exam problems and after you read your class notes, you read the part of the book related to these notes, and you finish your online homework. You do not need to submit them for grading.

GRADING:

FOUR TESTS	40%
ONLINE HOMEWORK	10%
FOUR TAKE-HOME EXAMS	30%
FINAL EXAM	20%

If you score 93% or more your final grade will be an A, 90% or more but less than 93% - A-, 87% or more but less than 90% - B+, 83% or more but less than 87% - B, and so on. Less than 60% is F.

Suggested Homework Assignments and Tentative Timetable

Date	Section	Suggested Homework Assignments
8/28		**Introduction: Definite Integrals**
	1.1	**All odd numbers from 1 to 57**
8/30	1.2	**All odd numbers from 61 to 115**
	1.3	**All odd numbers from 145 to 197**
	1.4	**All odd numbers from 207 to 231**
9/4	1.5	**All odd from 255 to 287**
	1.6	**All odd from 321 to 365**
9/6	1.7	**All odd numbers from 391 to 405**
	2.1	**All odd numbers from 1 to 37**
9/9	2.2	**58 – 62 and all odd numbers from 63 to 105**
9/11	2.3	**All odd numbers from 121 to 147**
9/13	2.4	**All odd numbers from 165 to 201**
9/16	2.8	**All odd numbers from 349 to 369**
	2.9	**379, 381, 383 and all odd numbers from 395 to 417**
9/18	Review	
9/20	Test 1, Friday, September 20. Take-Home Exam 1 Due Date	
9/23	Review	
	3.1	**All odd numbers from 1 to 57**
9/25	3.1	
	3.2	**All odd numbers from 69 to 125**
9/27	3.2	
9/30	3.3	**All odd numbers from 127 to 165**
10/2	3.4	**All odd numbers from 183 to 243**
10/4	3.4	
10/7	3.5	**All odd numbers from 245 to 259**
	3.6	**All odd numbers from 299 to 305**
10/9	3.7	**All odd numbers from 347 to 399**
10/11	Review	
10/14	Test 2, Monday, October 14. Take-Home Exam 2 Due Date	
10/16	Review	
	5.1	**All odd numbers from 1 to 43 and from 47 to 53**
10/18	5.1	
10/21	5.2	**All odd numbers from 67 to 113**
10/23	5.3	**All odd numbers from 139 to 163**
	5.4	**All odd numbers from 195 to 229, 230**
10/25	5.5	**All odd numbers from 251 to 279**
	5.6	**All odd numbers from 317 to 345**
10/28	6.1	**All odd numbers from 1 to 41**
10/30	6.2	**All odd numbers from 63 to 71**
11/1	6.3	**All odd numbers from 117 to 123 and from 131 to 159**
11/4	6.4	**All odd numbers from 175 to 185**
11/6	Review	
11/8	Test 3, Friday, November 8. Take-Home Exam 3 Due Date	
11/11	Review	
11/13	7.1	**All odd numbers from 1 to 5 and from 11 to 37**
11/15	7.2	**All odd numbers from 63 to 103**
11/18	7.3	**All odd numbers from 125 to 177**
11/20	7.4	**All odd numbers from 189 to 221**
11/22	7.5	**All odd numbers from 255 to 311**
11/25	7.5	
12/2	Review	
12/4	Test 4, Wednesday, December 4. Take-Home Exam 4 Due Date	
12/6	Review	
12/11	Final Exam, Wednesday, December 11, 10:30 am – 12:30 pm in EDB 206	

UNIVERSITY POLICIES

1. You must take the final exam at the time specified in the final exam schedule prepared by the University, which is Wednesday, December 11, from 10:30 am to 12:30 pm in EDB 206.

2. In the event of a weather emergency which requires curtailment or cancellation of classes, listen to WTIC (1080 AM) or call 860-832-3333 for the "general snow message."

3. Students may <u>drop</u> a full semester course by <u>Monday, September 16</u> without permission and without any notation on the record (no "W" grade). <u>The last day to withdraw</u> from a course without instructor's approval is <u>Monday, November 18</u> (a "W" grade will appear on the record for that course). It is strongly recommended that students consult with their academic advisors prior to deciding to withdraw. Cessation of attendance, notice to the instructor, or telephone calls to the Registrar's Office are not considered official notice of a student's intention to drop the course. After November 18 withdrawals are allowed <u>only under extenuating circumstances</u> and require approval of the course instructor and the department chair.

4. Please contact me privately to discuss your specific needs if you believe you need course accommodation based on the impact of a disability, medical condition, or if you have emergency medical information to share. I will need a **copy of the accommodation letter** from Student Disability Services in order to arrange your class accommodation. Contact **Student Disability Services (SDC), Willard Hall, Room 201**, 860-832-1952, or email *disabilityservices@ccsu.edu* if you are not already registered with them. Please visit the SDS website at *http://www.ccsu.edu/sds/* to download an Intake form and documentation requirements. CCSU provides reasonable accommodations in accordance with the *Americans with Disabilities Act and Section 504 of the Rehabilitation Act* for students with documented disabilities on an individualized basis.

5. All students are expected to demonstrate integrity in the completion of their coursework. **Academic integrity** means doing one's own work and giving proper credit to the work and ideas of others. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism. Students who engage in plagiarism and other forms of academic misconduct will face academic and possibly disciplinary consequences. Academic sanctions can range from a reduced grade for the assignment to a failing grade for the course. From a disciplinary standpoint, an Academic Misconduct Report may be filed, and a Faculty Hearing Board may impose sanctions such as probation, suspension or expulsion. For further information on academic misconduct and its consequences, please consult the Student Code of Conduct (http://www.ccsu.edu/StudentConduct) and the Academic Misconduct Policy (http://www.ccsu.edu/AcademicIntegrity). *All members of CSCU must at all times govern their social and academic interactions with tolerance and mutual respect…Because of the BOR's and CSCU's commitment to principles of pluralism, mutual respect, and civility, certain activities are not acceptable on CSCU campuses.* Please be aware that any violations of this Code of Conduct will result in a report of misbehavior to the Office of Student Conduct. Severe violations can result in dismissal from CCSU.

6. Central Connecticut 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 age; ancestry, color; gender identity and expression; intellectual disability; learning disability; mental disorder; physical disability; marital status, national origin; race; religious creed; sex, (including pregnancy, transgender status, sexual harassment and sexual assault); sexual orientation; or any other status protected by federal or state laws. Any student who has concerns about this should contact the Office of Equity and Inclusion (OEI) at 860-832-1652, Student Affairs at 860-832-1601, or their faculty member. The OEI is located on the main floor of Davidson Hall, room 119.

7. Central Connecticut State University (CCSU) will not tolerate sexual misconduct against students, staff, faculty, or visitors in any form, including but not limited to: sexual assault, sexual exploitation, sexual harassment or stalking, as defined in CCSU policies. For additional information, please consult the CCSU policies at http://www.ccsu.edu/diversity/policies/index.html. All faculty members and staff have a duty to report incidents of sexual harassment including sexual misconduct, intimate partner violence and stalking to Pamela Whitley, Title IX Officer, Office of Equity and Inclusion, Davidson Hall, 119.

To file a report, contact: Equity and Inclusion (860-832-1652); Student Affairs (860-832-1601); Student Conduct (860-832-1667). For criminal complaints, contact the University Police (860-832-2375).

For support and advocacy, contact: Office of Victim Advocacy at 860-832-3795 or jflanagan@ccsu.edu; Student Wellness Services at 860-832-1945 (confidential), Women's Center at 860-832-1655, the local YWCA's Sexual Assault Crisis Services Hotline at 860-223-1787 (confidential) and Prudence Crandall Center for Domestic Violence (confidential) at 888-774-2900 (24-hour hotline).

RESOURCES AVAILABLE

1. If you need help, take advantage of your instructor's office hours. Do not wait until just before the test to do so.
2. Free tutoring is available in The Learning Center -- located in Diloretto Hall, Room 316 (D-316). They can be reached at (860) 832-1900. A schedule for the hours the Center is open will be posted soon after the beginning of the semester. The tutoring will be online.
3. Form a study group with other students in your section. Explaining solutions to homework problems to each other is a good way to learn.

ADDITIONAL IMPORTANT INFORMATION

1. I will **not** use or post anything on Blackboard.

2. Your online homework will be on a website called **Edfinity.com**. Once I create your online homework, you will receive an invitation link from Edfinity.com to join. You need to click on that link and follow the instructions. At some point you will be asked to pay for this service. Once you pay, your account will be active for five months and that is all you need to pay for this course, because the book is free and available online at https://openstax.org/details/books/calculus-volume-2.

   If you have any questions, do not hesitate to ask me.