UNIVERSITY of HAWAI'I®
WINDWARD
COMMUNITY COLLEGE

Math 241 (Calculus I) Course Syllabus

(Credits: 4 / CRN#: 63029 & 62049 / Mode: Online - Asynchronous / Semester: Summer 2024)

Professor: *Navtej (Johnny) Singh* || Office Location: *Manaopono 110*

E-Mail: *navtej@hawaii.edu* << *This is the best way to get in touch. Provide name & class information*>>

Zoom Video Link: https://hawaii.zoom.us/j/2025344398 <<Meeting ID: 202 534 4398 >>

For this asynchronous class, students can email the instructor to set up a zoom meeting get help if needed.

Office Telephone #: *(808) 236 – 9278* << *If I don't answer leave a message with contact information* >>

Websites: https://laulima.hawaii.edu & www.MyMathLab.com (aka MyLab | Math)

Windward Community College Mission Statement

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai'i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide the Ko'olau region of O'ahu and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

Catalog Description

Basic mathematical concepts, topics in differentiation, and introductory integration of algebraic and trigonometric functions. Applications of differentiation and integration will be demonstrated. (4 hours lecture). Pre-Requisite(s): Grade of "C" or better in MATH 140 or equivalent, satisfactory math placement test score, or consent of instructor.

Learning Resources and Materials

This course is participating in the Bookstore's Interactive Digital Access Program (IDAP). Through this program, you will access your course material digitally, and it will be available to you by the first day of class. A charge for the digital course material through IDAP will be added to your MyUH account. You have the option to opt-out of receiving your course material through IDAP. By opting-out, you will lose access to the course material and the charge will be refunded on your MyUH account. If you do not opt-out, the charge will stay on your MyUH account. Any unpaid charges on your MyUH account will turn into a hold. Holds on your account will prevent you from accessing various services within the University. You may opt-out by visiting your unique Inclusive Access Student Portal, which can be found in your IDAP welcome email (Subject Line: "IMPORTANT: You have enrolled in an IDAP Course"). For more information regarding IDAP, please contact your campus bookstore.

I recommend that you have a graphing calculator utility to help you with homework. A free graphing utility is available at https://www.desmos.com. In addition, there are various graphing applications available for use on smartphones and tablets. If you are planning to buy a stand along graphing calculator TI 83/84 (regular or plus) is recommended. Reliable computer with access to broadband internet is required for this course. Note that students may be able to borrow a graphing calculator and a computer for the semester among other things from Windward Community College Library.

Tasks and Grading

Point Distribution		
Consultations	Two Meetings @ 10 points each	020 pts
Homework	27 Assignments on MML @ 10 points each	270 pts
Portfolio	Written Work for HW	060 pts
Quizzes	Five @ 50 points each (Best of two attempts)	250 pts
Final Exam	Comprehensive	200 pts
Total Points		800 pts

Letter grades will be assigned based on the following standard scale:
A $\Rightarrow$ 90% $\uparrow$; B $\Rightarrow$ 80%$\uparrow$; C $\Rightarrow$ 70% $\uparrow$; D $\Rightarrow$ 60% $\uparrow$; F $\Rightarrow$ below 60%;

Other grade options include N, CR, NR, I, and W. See the following information for detail:

"The 'N' grade indicates that the student has worked conscientiously, attended regularly, finished all work, fulfilled course responsibilities, and has made measurable progress. However, either the student has not achieved the minimal student learning objectives and is not yet prepared to succeed at the next level, or the student has made consistent progress in the class but is unable to complete the class due to extenuating circumstances, such as major health, personal or family emergencies." If you would like to request for N grade in this class, you must provide a formal letter of request to me no later than the time of final examination addressing how you have met the criteria for N grade. Then I will decide on whether or not you qualify for the N grade.

The CR/NC grades require written instructor consent. Overall score of 70% or higher is consider CR and below 70% is NC. Students must apply for CR/NC grading option at the Admissions Office by the posted deadline. If a student does not apply for CR/NC grading option at the Admissions Office by the required deadline and if s/he does not withdraw, a letter grade (A, B, C, D, F, N) will be assigned for the course. The W grade is given only when the student officially withdraws from the course by the posted deadline. The "I" grade is a temporary grade given at the instructor's option when a student has failed to complete a small part of a course because of circumstances beyond his or her control. The "I" grade is given by student request and must be approved by the instructor.

Student Learning Outcomes

Upon completion of the course, the student will be able to:

- Demonstrate proficiency in determining limits, derivatives, and integrals.
- Use calculus techniques to analyze and solve applied problems.
- Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.

All SLOs assessment are embedded in class activities, homework, quizzes, or exams.

Basic Rubrics for Grading Multistep and Word Problems	
Full Credit	- Shows complete understanding of a problem's mathematical concepts and procedures - Performs algorithms correctly using appropriate notation and precise mathematical language - Gives an elaborate and effective explanation of the solution process in an organized way
Partial Credit	- Shows near understanding of the problem's mathematical concepts and procedures - Using appropriate notation, performs algorithms completely that may contain minor errors. - Identifies most relevant information and shows a general understanding - Shows effective explanation and some evidence of a systematic solution process
Very Little Credit	- Shows some understanding of a problem's mathematical concepts and procedures - Performs algorithms that may contain major computational errors - Identifies some relevant information and shows limited understanding - Shows little evidence of a solution process or use of appropriate mathematical language - Gives some explanation of the solution process but may be vague or difficult to interpret
No Credit	- Shows no understanding of a problem's mathematical concepts and procedures - Identifies no relevant information, algorithmic pattern, or evidence of a solution process - Fail to explain significant parts of the problem or omit it altogether

Quizzes

In this course, there are five scheduled quizzes (worth 50 points each) available at mymathlab.com. Students will have 75 minutes to take each quiz in single sitting. Each quiz can only be reviewed immediately after the submission. Each quiz, with slight variation, can be taken twice to improve score (I'll take the highest of the two attempts). First attempt for each quiz is due by the indicated date on schedule page of the syllabus (**retake due by June 26th**). Best way to prepare for the quizzes is to study related homework assignments.

Final Exams

There is a comprehensive final in this class available at mymathlab.com Students will have 2 hours to take then final in a single sitting by the due date indicated on the last page of the syllabus. A sample final will be provided to assist you in studying for the actual final. There is no make-up for the final exam. Students must show their work on a separate piece of paper for the final exam and upload all pages in a single pdf to lauilma dropbox within 45 minutes of completing the final exam on mymathlab.com

Homework

There are 27 homework assignments in this course available via MyMathLab.com due by the date indicated on the schedule page of this syllabus. On average student are expected to complete about two homework assignments per week. You may attempt a homework problem as many times as needed, till you get it right. You may continue to work on the homework after the due date; however, there will be a **1% penalty per day on the homework done after the due date**. While this may not be much for a day or two late submissions, it will add up to a high percentage over longer period. **Note that June 26th is the absolute last day you will be allowed to work on homework assignments that are past due date.** To receive help on the homework, students are welcome to reach out to help anytime during the term.

Portfolio

Since MyMathLab only requires you to enter the final answer, it is important that you understand the correct process leading to the final answer. Therefore, I am asking you to show your work for each homework problem on a separate sheet of paper that will be part of your portfolio. In addition, your portfolio should include written work for the final exam review. To earn portfolio points, simply scan your written work for each homework as pdf file (one file per homework) and upload it to Drop Box at laulima.hawaii.edu. Make sure uploaded files are clearly labeled with correct assignment name and number. Note that your portfolio work will be graded based on neatness, completion, and organization at the end of the term. **June 26th is the last day to upload written work to laulima dropbox for homework assignments.**

Getting Help

In addition to reaching out to me for help (via zoom using the ID 2025344398 or google meet using the ID navtej@hawaii.edu), you may also utilize the following websites resources:

- Ka Piko Center - Provides online tutoring via WCC Math Lab
- http://manoa.hawaii.edu/ola - Provides free live interactive tutoring during weekdays
- http://www.hawaii.edu/tutor – Provides free 24/7 online tutoring using your UH username & password.
- http://www.khanacademy.org – Provides small lecture videos on selected topics
- www.wolframalpha.com – Provides computational tools, facts, and examples.
- https://www.youtube.com/playlist?list=PLF797E961509B4EB5 – Provides complete lecture videos on topics in Calculus I by Professor Leonard.

Consultations

There are two required consultations for this class worth 10 points each that can be conducted anytime during the term either via zoom meeting (recommend) or via email. Below are recommend consultations:

- 1st Consultation: Participation in class orientation will count as your 1st consolation. During the orientation, I will go over the course syllabus & answer any questions students may have about this class.
- 2nd Consultation: This can be done any time during the term to get help on homework, go over your mistakes on a particular exam, discuss if your uploaded work is acceptable, or check your progress in class (preferably before the drop date). Any general questions regarding the class or ways to improve grades can also be discussed.
- Extra Consultations: Additional consolations can take place somewhere close to the end of the semester. The time can be used to ask questions about the final exam or discuss overall grades.

Note that purpose of these consolations is for us to connect with each other at least couple of times during the semester. I encourage you to reach out to me for help as often as needed.

Disabilities Accommodation

If you have a physical sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help your succeed in this class. You can reach Jodi Asato (located in Hale Kakoʻo 105) , Disabilities Counselor, at (808) 235-7472 or at wccdsso@hawaii.edu

Communication

The following methods will be used to communicate:

- E-mail will be our primarily mode of communication (make sure to check your UH email frequently). I will do my best to response to your emails within 24 hours on instructional days (perhaps much sooner). This is an effective method of communication if you expect a short response.
- You can connect with me via **Zoom Video using the ID 202 534 4398** or via Google Video using the UH ID navtej@hawaii.edu during dedicated office hours (or schedule an appointment).
- If you go to windward community college or live nearby, you can stop by office anytime during my office hours or make an appointment to see me (This option is limited during summer).
- Alternatively, you can also connect with me via my office phone (808) 236 – 9278 during my office hours or leave a message for me to return your call.
- Online discussion board can be used to interact with classmates by asking homework questions and answering previously posted problems.

Important Information

Please check your @hawaii.edu e-mail account frequently for important announcements. Note this syllabus is subject to change in extenuating circumstances. All online homework assignments are due by midnight of the deadline date. All due dates for homework assignments and exams are listed on the schedule below. If you need to discuss your performance, I recommend you get in touch with me as soon as possible. E-mail is the preferred method of communication. Instructor will inform you of any additional opportunity such as extra credit when or if they become available. For important academic information refer to WCC website www.windward.hawaii.edu or go to www.hawaii.edu for system wide information. Plagiarism, or copying and use of another's work without proper acknowledgment, is not permitted and may result in failing grade for the course. In the event instructor cannot be reached, you may contact the Academic Affairs Office (located in Alakai 121) at (808) 235-7422 or email wccaa@hawaii.edu.

Foundations Quantitative Reasoning Hallmarks

Math 241 also fulfills 3 credits of the General Education requirements for both an A.A. degree at WCC and a Bachelor's degree at 4 year UH institutions. Consequently, it meets the hallmarks of the quantitative reasoning requirement. This course will:

1. provide students with theoretical justifications for, and limitations of, mathematical or statistical methods, and the formulas, tools, or approaches used in the course.
2. include application of abstract or theoretical ideas and information to the solution of practical quantitative reasoning problems arising in pure and applied research in specific disciplines, professional settings, and/or daily and civic life.
3. provide opportunities for practice and feedback that are designed to help students evaluate and improve quantitative reasoning skills by including a course component at least once per week with a maximum 30:1 student-to-teacher ratio.
4. be designed so that students will be able to

a. identify and convert relevant quantitative information into various forms such as equations, graphs, diagrams, tables, and/or words;
b. select appropriate techniques or formulas, and articulate and evaluate assumptions of the selected approaches;
c. apply mathematical tools and perform calculations (including correct manipulation of formulas);
d. make judgments, create logical arguments, and/or draw appropriate conclusions based on the quantitative analysis of data, the assumptions made, the limitations of the analysis, and/or the reasonableness of results; and
e. effectively communicate those results in a variety of appropriate formats.

Title IX

Windward Community College is committed to providing a learning, working, and living environment that promotes personal integrity, civility, and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking. If you or someone you know is experiencing any of these, WCC has staff and resources to support and assist you. To report an incident of sex discrimination or gender-based violence, as well as receive information and support, please contact one of the following:

UH Confidential Advocate Phone: (808) 348-0663 Email: advocate@hawaii.edu	Desrae Kahale, Mental Health Counselor & Confidential Resource Phone: (808) 235-7393 Email: dkahale3@hawaii.edu	Karen Cho, Title IX Coordinator Phone: (808) 235-7474 Email: kcho@hawaii.edu

As a member of the University faculty, I am required to immediately report any incident of sex discrimination or gender-based violence to the campus Title IX Coordinator. Although the Title IX Coordinator and I cannot guarantee confidentiality, you will still have options about how your case will be handled. My goal is to make sure you are aware of the range of options available to you and have access to the resources and support you need. For more information regarding sex discrimination and gender-based violence, the University's Title IX resources and the University's Policy, Interim EP 1.204, go to manoa.hawaii.edu/titleix/

Student's Responsibilities

Responsible students take ownership of their actions by exhibiting the following behaviors:

- Take an active role in learning and set aside adequate time for doing assignments
- Maintain a positive and inquiry attitude towards learning.
- Complete assignments by the designated dates with attention to quality of work.
- Actively communicate with instructor and seek immediate help when needed.
- Be proactive and do not procrastinate since new concepts are built on previously learned material.

Math 241 Summer 20234 Schedule					
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
5/20 **Orientation** HW #01 (§2.2)	5/21 HW #02 (§2.3)	5/22 HW #03 (§2.4)	5/23 HW #04 (§2.5)	5/24 HW #05 (§2.6)	5/25 **Quiz #1 Due** **(§2.2 - §2.6)**
5/27 Memorial Day (Holiday)	5/28 HW #06 (§3.1) HW #07 (§3.2)	5/29 HW #08 (§3.3) HW #09 (§3.4)	5/30 HW #10 (§3.5)	5/31 HW #11 (§3.6)	6/1 **Quiz #2 Due** **(§3.1 - §3.6)**
6/3 HW #12 (§3.7)	6/4 HW #13 (§3.8)	6/5 HW #14 (§3.9)	6/6 HW #15 (§4.1)	6/7 HW #16 (§4.2)	6/8 **Quiz #3 Due** **(§3.7 - §4.2)**
6/10 HW #17 (§4.3)	6/11 Kamehameha Day (Holiday)	6/12 HW #18 (§4.4)	6/13 HW #19 (§4.5)	6/14 HW #20 (§4.7)	6/15 **Quiz #4 Due** **(§4.3 - §4.7)**
6/17 HW #21 (§4.9)	6/18 HW #22 (§5.2)	6/19 HW #23 (§5.3)	6/20 HW #24 (§5.4)	6/21 HW #25 (§5.5)	6/22 **Quiz #5 Due** **(§4.9 - §5.5)**
6/24 HW #26 (§6.1)	6/25 HW #27 (§6.2)	6/26 Last Day for any Makeup Work.	6/27 Practice Final Exam	6/28 **Final Exam Due**	6/29 End of Summer Term

Note that while there is no homework assignment for sections 2.1, 2.7, 4.6, 5.1, 6.3, 6.4, and 6.5, students are encouraged to read through theses sections to understand the basic concepts.