



Stony Brook University

MAT122 – Overview of Calculus with Applications Syllabus - Flipped Fall 2024

Table of Contents

Part 1: Course Overview	2
Course Information	2
Course Meeting Time/Delivery Mode.....	2
Required Course Textbooks and Materials.....	2
Textbook	2
Lumen	2
Calculator	2
Brightspace	3
Gradescope	3
How We Will Communicate	3
How to Succeed in this Course.....	3
Part 2: Grading, Attendance and Late Work Policies.....	4
Assessment and Grading.....	4
Homework**	5
Makeup Policy.....	6
Part 3: Course Schedule	6
Part 4: Technical Requirements	6
Attendance Policy	7
Part 5: University and Course Policies	7
University Policies	7
Student Accessibility Support Center Statement.....	7
Academic Integrity Statement	7
Critical Incident Management.....	8
Course Policies	8

MAT122/Calculus with Applications

Part 1: Course Overview

Course Information

Course Coordinator: Deb Krieg debra.krieg@stonybrook.edu [Contact Card](#)

Recitation Instructors:

Prabhat Devkota Prabhat.Devkota@stonybrook.edu [Contact Card](#)

Jacob Laxer Jacob.Laxer@stonybrook.edu [Contact Card](#)

Course Description: This course covers both differential and integral CALCULUS and explores the relationship between them. There will be a review of precalculus at the beginning of the course.

Course Meeting Time/Delivery Mode

Lectures and recitations are held in-person; attend all sessions.

Lecture: A pre-recorded lecture for the material in the upcoming week will be released on Brightspace under *Lecture Material* on Friday at 4pm ET. Watch the lecture material BEFORE it is covered in class.

Recitation: Attempt all homework and review problems in advance of recitation so you can get questions answered.

General education designation(s) (SBC): DEC: C; SBC: QPS

Credit hours: 3

Prerequisites: C or better in MAP 103 or level 3 or higher on the mathematics placement examination.

Required Course Textbooks and Materials

Textbook

There is no textbook to purchase for this course. Lecture material will be distributed through Brightspace.

Lumen

You will be expected to use Lumen to complete the online homework component of the course. Login instructions will be posted on Brightspace under *Homework Info*. Lumen is a zero-cost platform.

MAT122/Calculus with Applications

Calculator

Although a calculator will be required to complete some of the **online** homework problems, you'll be expected to know how to sketch transformed functions indicating intercepts, etc. without a calculator. On **paper** homework and exams, a calculator CANNOT be used. Answers on all written submissions must be exact (containing fully reduced fractions and/or radicals where appropriate) not rounded decimals.

Brightspace

You are expected to check Brightspace (brightspace.stonybrook.edu) regularly throughout the course to access course material, read announcements and view grades. Make sure your notifications are properly set so you receive information in a timely manner (more info below).

Gradescope

You are expected to use Gradescope to upload your completed paper homework each week and you'll access your graded exams through this program. Look for an email invitation to create a login on your **Stony Brook** email account at the end of Week 2 of the semester. *There is no cost to access Gradescope.* More information on how to use Gradescope will be provided on Brightspace under *Paper Homework*.

How We Will Communicate

Regular, professional, and respectful communication is essential. Review the [Online Communication Guidelines](#) carefully and ask if you have questions.

To make sure you are receiving all communications in this course:

- Check Brightspace regularly for newly posted material.
- Set Brightspace notifications to be alerted via email of updates.
- Email responses are generally sent within 6 hours although replies to emails sent outside of the normal business day may take 12-48 hours.
- Your Stony Brook University email must be used for all University-related communications. *Include course name and section in subject.*
- All instructor correspondence will be sent to your SB email account. To log in to Stony Brook Google Mail, go to <http://www.stonybrook.edu/mycloud> and sign in with your NetID and password.

How to Succeed in this Course

Expect to spend 2-5 hours/week on average for homework and exam preparation.

- Attend each lecture and recitation
- Check Brightspace and your SBU email regularly
- Keep track of all due dates and plan ahead!
- Complete all graded assignments on time

MAT122/Calculus with Applications

- Work through problems more than once until you can complete them without the use of notes, help videos, etc.
- Complete review material in advance of review sessions

We're happy to answer questions you have about the material or to discuss any concerns that you have with the course. If you are struggling to understand a topic, it will be more productive to ask us for clarification *before* looking at sites such as Khan Academy or trying to find a relevant YouTube video.

There are multiple university offices and help desks that are available to assist you with everything from advising, tutoring, accessibility, online-specific support, and much more.

Besides recitation, you can also get homework help from the [Math Learning Center](#). This is a free service.

Part 2: Grading, Attendance and Late Work Policies

Assessment and Grading

Letter Grades: Course grades are determined based on the breakdown of the class's weighted average (see weights below) and your mastery of the material. There are no predetermined cutoffs for course grades – see below for *minimum* threshold cutoffs. A cutoff may be lowered to adjust for exam difficulty.

Minimum Thresholds:

A 90-100, A- 85-89, B+ 80-84, B 75-79, B- 70-74, C+ 65-69, C 60-64, C- 55-59, D+ 50-54, D 45-49, D-40-44, F 0-39

Individual exams are not assigned letter grades, but statistics will be posted so you know how you did compared to others in the course.

Extra credit opportunities are **NOT** an option to compensate for low exam scores and no extra credit will be given on an individual basis.

Weights

Activity/Assignment	Percentage	Due Date
Paper Homework	10%	Thursdays 11:59pm*
Lumen Average	15%	Fridays 11:59pm*
Midterm #1	15%	See Curriculum
Midterm #2	25%	See Curriculum
Final Exam	35%	See Curriculum
Total	100%	

* exceptions may occur

MAT122/Calculus with Applications

Exam Formats:

Midterms and final exam are taken during lecture. (see Brightspace for dates/times)

See Part 5 of the syllabus if you require [accommodations](#).

Exams are closed book and short answer with partial credit given where appropriate. You may NOT use a calculator during exams. Full work must be shown to receive full credit – little to no credit is given for a correct answer without proper substantiation. In addition to computational and application problems, be prepared to explain a concept in 1-2 sentences.

Make-up exams will not be given under any circumstances. See below for more information on makeup policy***.

See [Undergraduate Grading System](#) for additional information regarding GPNC, Withdrawal Policies, Incompletes

Homework**

There are 2 homework components in the course:

- web based assignments on Lumen
- paper homework uploaded to recitation instructor via Gradescope

Homework Guidelines:

1. By design, the level of difficulty for some of the homework questions is higher than those given in lecture. Expect to need help completing the assignment. You can ask questions during recitation, office hours, via email (include a picture of your work) and/or at the [Math Learning Center](#).
2. You'll always have the opportunity to ask homework questions during recitation before the assignment is due. Work through as much as you can, bring questions to class.
3. Knowing HOW to complete homework problems is just as important as getting the answer correct. i.e., guessing, copying and/or just modeling the video is not enough.
4. Strive to complete homeworks in a timely fashion as the hands-on practice with the material will better enable you to comprehend the subsequent content.
5. **Gradescope Upload:** look at your uploaded submission *before deadline* to make sure you've submitted the correct file
6. See next section regarding missed assignments.

MAT122/Calculus with Applications

Makeup Policy

** Occasionally events such as work shifts, exams in other courses, illness and family events will make it difficult to complete a homework assignment on time. You will be given a fixed number of Late Passes to use at your discretion. **If a Lumen assignment is missed**, you can reopen it using Late Passes to complete the past due homework for credit. There is no penalty to use Late Passes – note that reopening older assignments require more Late Passes than more recent ones. Use Late Passes sparingly and wisely – getting hands on practice with the material in a timely manner will help you succeed in the course. Do not ask for additional Late Passes.

Paper homework will not be accepted late under ANY circumstances. At the end of the semester, the two (2) lowest scores will automatically be dropped to offset the occasional unforeseen circumstances.

*** **If a midterm is missed** due to a documented emergency, your final exam score will double as the midterm score. If the absence is not excused, your score will be zero. **If the final exam is missed** due to a documented emergency, an Incomplete may be given as the course grade and you must make arrangements with Lecturer to take the final. [see *Course Policies below for more info on [taking an Incomplete.](#)*]

Part 3: Course Schedule

The curriculum contains topics that will be covered in the course, pacing of topics as well as **exam dates** and University deadlines. The Curriculum is posted on Brightspace in the *Getting Started* module. Unforeseen events may cause changes to the schedule. Any changes will be clearly noted.

Part 4: Technical Requirements

Having a reliable computer and Internet connection throughout the term is required. **Caution!** You will be at a disadvantage if you attempt to complete all coursework on a smartphone or tablet. It may not be possible to submit the required files.

Be prepared to take pictures with your phone, iPad, laptop, etc. then either upload them as a JPG/HEIC or combine multiple pages into a single PDF using an app such as CamScanner, TurboScan or Acrobat.

If you need to borrow a device, please visit [SBU's Laptop Loan Program](#).

Technical Assistance:

If you need technical assistance at any time during the course or to report a problem with Brightspace you can:

- Phone: 631-632-9800 M-F 9:00-5:00 (device support, Wi-Fi, software, hardware, logins)
- Submit a help request ticket: <https://it.stonybrook.edu/services/itsm>

MAT122/Calculus with Applications

Attendance Policy

You are expected to attend every recitation plus report for examinations and submit major graded coursework as scheduled. If you are unable to attend class(es), report for any exams or complete major graded coursework as scheduled due to extenuating circumstances, you must contact the instructor as soon as possible. You may be requested to provide documentation to support their absence and/or may be referred to the Student Support Team for assistance. Students will be provided reasonable accommodation for missed exams, assignments or projects due to significant illness, tragedy or other personal emergencies. Please note, all students must follow Stony Brook, local, state and Centers for Disease Control and Prevention (CDC) guidelines to reduce the risk of transmission of COVID.

Part 5: University and Course Policies

University Policies

Student Accessibility Support Center Statement

If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact the Student Accessibility Support Center (SASC), ECC (Educational Communications Center) Building, room 128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Once approved, **you must schedule to take each exam with SASC proctors.**

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and the staff at the Student Accessibility Support Center (SASC). For procedures and information go to the following website: <http://www.stonybrook.edu/ehs/fire/disabilities>

Academic Integrity Statement

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html

MAT122/Calculus with Applications

You must pursue your academic goals honestly, honorably and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. *In doing these things, you risk losing scholarships, financial aid and the ability to graduate with honors.*

Note: when it appears that collaboration between students has occurred, **both** students will be reported therefore make every attempt to keep your own work out of view of others.

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.

Course Policies

Understand When You May Drop This Course:

If you need to drop or withdraw from the course, it is your responsibility to be aware of the tuition liability deadlines listed on the registrar's [Academic Calendar](#). Before making the decision to drop/withdraw you may want to contact me and/or refer to the University's policies:

[Undergraduate Course Load and Course Withdrawal Policy](#)

Incomplete Policy:

Under emergency/special circumstances, students may petition for an incomplete grade. Circumstances must be documented and significant enough to merit an incomplete. If you need to request an incomplete for this course, contact me for approval as far in advance as possible. You should also read the University's policies that apply to you:

[Undergraduate Bulletin](#)

Course Materials and Copyright Statement:

Course material accessed from Brightspace, Zoom, Echo 360, VoiceThread, etc. is for the exclusive use of students who are currently enrolled in the course. Content from these systems cannot be reused or distributed without written permission of the instructor and/or the copyright holder. Duplication of materials protected by copyright, without permission of the copyright holder is a violation of the Federal copyright law, as well as a violation of Stony Brook's Academic Integrity.