MAT 127: CALCULUS C
SYLLABUS

SPRING 2024

Lecture 01:

Instructor: Johan Asplund, johan.asplund@stonybrook.edu, Math Tower 3-116
Class time & location: MW 4:00–5:20pm, Library E4330
Office and MLC hours: `math.stonybrook.edu/cards/asplundjohan.html`
Course webpage: `math.stonybrook.edu/~jasplund/mat127_spr24`

Grader: Filip Samuelsen, filip.samuelsen@stonybrook.edu, Math Tower 3-106
Office and MLC hours: `math.stonybrook.edu/cards/samuelsenfilip.html`

Lecture 02:

Instructor: Kristen Pagano, kristen.pagano@stonybrook.edu, Math Tower 2-119
Class time & location: TuTh 10:00–11:20am, Library E4320
Office and MLC hours: `math.stonybrook.edu/cards/paganokristen.html`

Grader: Alessandro Pilastro, alessandro.pilastro@stonybrook.edu, Math Tower S-240A
Office and MLC hours: `math.stonybrook.edu/cards/pilastroalessandro.html`

Lecture 03:

Instructor: Keven Calderon, keven.calderon@stonybrook.edu, Math Tower 4-105
Class time & location: TuTh 5:30–6:50pm, Earth&Space 131
Office and MLC hours: `math.stonybrook.edu/cards/calderonkeven.html`

Grader: Miao Song, miao.song@stonybrook.edu, Math Tower 3-101
Office and MLC hours: `math.stonybrook.edu/cards/songmiao.html`

Course description: A continuation of MAT 126,covering sequences, series, Taylor series, differential equations and modeling. May not be taken for credit in addition to MAT 132, MAT 142, MAT 171, or AMS 161.
Prerequisites: C or higher in MAT 126 or level 8 on the mathematics placement examination.
Attendance: Strongly encouraged, but not mandatory.
Textbook: Single Variable Calculus Concepts and Contexts (5th Edition) by James Stewart.

Exam dates: You must bring your University ID to all exams.

Exam	Date	Time	Location	
Midterm I	Tu Feb 27	8:30–9:50pm	Lecture 01:	Library E4320
			Lecture 02:	Library W4540
			Lecture 03:	Earth&Space 131
Midterm II	M Apr 8	8:30–9:50pm	Lecture 01:	Earth&Space 131
			Lecture 02:	Library E4320
			Lecture 03:	Library W4540
Final	W May 8	8:00–10:45am	TBA	

Date: January 24, 2024.

Homework:
- Weekly homeworks consisting of weekly in-class quizzes, and WebAssign online assignments.
- Late submissions will **not** be accepted.
- The two lowest scores will be dropped.
- Collaboration is encouraged but you must submit your own solutions.

In-class quizzes: At the end of the Wednesday class each week there will be a short in-class quiz whose score counts towards the total homework score.

WebAssign: A WebAssign subscription is required to complete homework in this course. Assignments will be posted weekly and are due the week following the posting. Dates will be clear on WebAssign itself.

Grades: Your final grade will be determined as follows.

Homework:	20%
Midterm I:	20%
Midterm II:	20%
Final:	40%

Makeup exams: Not available. If you miss one midterm exam with documented evidence (for instance, a letter from Student Accessibility Support Center), then your final exam grade will be counted with weight 60% in your final grade. A student must attend the final exam at the scheduled time in order to receive a passing grade in the course.

Tentative schedule: See the course webpage (only Lecture 01) for a more detailed (but still tentative) schedule, notes and the homework. All sections refer to sections in the course textbook.

Week	Dates	Contents	Sections
1	Jan 22, 24	Sequences and limits	§8.1
2	Jan 29, 31	Infinite series	§8.2
3	Feb 5, 7	Convergence tests	§8.2, 8.3
4	Feb 12, 14	Power series	§8.5, 8.6
5	Feb 19, 21	Taylor and Maclaurin series	§8.7
6	Feb 26, 27	Review and Midterm I	
7	Mar 4, 6	More convergence tests, absolute convergence	§8.3, 8.4
8	Mar 11, 13	No class (Spring Recess)	
9	Mar 18, 20	Ordinary differential equations (ODE)	§7.1
10	Mar 25, 27	Direction fields and Euler's method	§7.2
11	Apr 1, 3	Separable ODEs, Review	§7.3
12	Apr 8, 10	Midterm II, Separable ODEs	§7.3
13	Apr 15, 17	Separable ODEs and applications	§7.3, 7.4, 7.5
14	Apr 22, 24	Power series solutions and complex numbers	Notes, §I
15	Apr 29, May 1	Second order ODEs and final review	Notes
16	May 8	Final	

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, Stony Brook Union Suite 107, (631) 632-6748, or at sasc@stonybrook.edu. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

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 is required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School

of Health Technology and 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/academicintegrity/index.html`.

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 Student Conduct and Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Until/unless the latest COVID guidance (`https://www.stonybrook.edu/commcms/strongertogether/latest.php`) is explicitly amended by SBU, during Spring 2022 "disruptive behavior" will include refusal to wear a mask during classes.