01:640:192 – Honors Calculus II – Fall 2018

Instructor:	**Email:**	**Office:**	**Office hours:**
Alice Mark	alice.mark@rutgers.edu	Hill 530	Tues 3:20-4:40

Textbook: Calculus Deconstructed: A Second Course in First-Year Calculus by Zbigniew Nitecki, ISBN: 978-0883857564.

Curriculum goals: This course fulfills both the Quantitative Information (QQ) and Mathematical or Formal Reasoning (QR) learning goals of the SAS Core Curriculum:

> **QQ:** Formulate, evaluate, and communicate conclusions and inferences from quantitative information.
>
> **QR:** Apply effective and efficient mathematical or other formal processes to reason and solve problems.

Class style: The classroom is both active and interactive. There will be times when the lecture is more of a discussion. I may call on you even if you don't volunteer. You will be given problems to think about and discuss with your classmates before we talk about them as a group. It is up to you to take advantage of this opportunity and make it useful to you. In order to do this, you must really try the problems even when you don't know where to begin and ask questions as they arise even if they seem silly.

Class policies: During class, your laptops and phones should be put away unless we are doing an activity that explicitly requires them. No headphones on or in your ears during class.

Working with others: You are encouraged to collaborate with your classmates on homework and in-class work. You may not collaborate on exams. If you collaborate on homework, you must write up your solutions yourself in your own words before you turn them in, and you must write the names of your collaborators on your assignment.

Here is a space to write down the names and email addresses or phone numbers of some of your classmates so that you can form study groups.

name: _____ contact: _____

name: _____ contact: _____

name: _____ contact: _____

name: _____ contact: _____

Attendance: Attendance is required. It will be taken periodically via unannounced quizzes, see below for more about those.

Homework: Homework will be posted on and collected via the Sakai site for the course. It is due Fridays at 5pm. (The previous two sentences are subject to change during the first two weeks of class). No late homework will be accepted under any circumstances.

Exams: There will be two in-class midterms and one final exam. Missing an exam requires documentation of extenuating circumstances. Make-up exams will only be given under very special circumstances, at the discretion of the instructor.

The final exam will be on Decemnber 20, 4-7pm.

Quizzes: There will be quizzes, some may be announced and some may not be. They will be short (10 minutes, 1 or 2 problems). I will use them to take attendance, so you will get some credit just for being present when they happen. There will be no make-up quizzes.

Assesment: Your final grade will be homework 20%, quizzes/attendence 5%, exams 75 % (each midterm is 20%, the final is 35%).

For the purposes of calculating your grade, your lowest 2 quizzes and your lowest 2 homeworks will be dropped. These are to account for the reality that life sometimes gets in the way and we have to miss class once or twice.

Academic integrity: Students are expected to be familiar with and abide by the Rutgers academic integrity policy. For reference, find it here: `academicintegrity.rutgers.edu/academic-integrity-at-rutgers`.

Disability accomodation: Rutgers is fully comitted to compliance with the Americans with Disabilities Act; policies and procedures can be found at `ods.rutgers.edu`.

Students who wish to request accommodations must present a Letter of Accommodations to the instructor as early in the term as possible `ods.rutgers.edu/my-accommodations/letter-of-accommodation`.

Tenatative Schedule:

Week of	Book Section(s)	Topic(s)
9/3	2.2, 2.3, 2.4, 2.5, 3.1, 3.7	Review/reminder of concepts from 151
9/10	5.1, 5.2, 5.3	Area, Riemann integrals, The FTC
9/17	5.4, 5.5	Integration techniques
9/24	5.5, 5.6	More integration techniques
10/1	exam review & first midterm	
10/8	5.7, 5.8	Improper integrals, Areas and volumes
10/15	5.9	Integrability, Proof techniques
10/22	6.1	Polynomial approximation of functions
10/29	6.2, 6.3	Convergence of series, Conditional convergence
11/5	6.4, 6.5	Power series: convergence of, working with
11/12	exam review & second midterm	
11/22	Rogowski 11.1, 11.2	arc length, parametric functions
11/26	5.8, Rogowski 11.3, 11.4	Other coordinate systems
12/3	6.6 and other notes	complex numbers
12/10	assorted topics	there's room for the schedule to shift downward
12/20 at 4pm	Final exam	

Student-Wellness Services:

Counseling, ADAP & Psychiatric Services (CAPS)

(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901 / http://health.rutgers.edu/medical-counseling-services/counseling

CAPS is a University mental health support service that includes counseling, alcohol and other drug assistance, and psychiatric services staffed by a team of professionals within Rutgers Heath services to support students' efforts to Succeed at Rutgers University. CAPS offers a variety of services that include: individual therapy, group therapy and workshops, crisis intervention, referral to specialists in the community, and consultation and collaboration with campus partners.

Violence Prevention & Victim Assistance (VPVA)

(848) 932-1181 / 3 Bartlett Street, New Brunswick, NJ 08901 / www.vpva.rutgers.edu

The Office for Violence Prevention and Victim Assistance provides confidential crisis intervention, counseling and advocacy for victims of sexual and relationship violence and stalking to students, staff, and faculty. To reach staff during office hours when the university is open or to reach an advocate after hurs, call 848-932-1181

Disability Services

(848) 445-6800 / Lucy Stone Hall, Suite A145, Livingston Campus, 54 Joyce Kilmer Avenue, Piscataway, NJ 08854 / http://ods.rutgers.edu

Rutgers University welcomes students with disabilities into all of the University's educational programs In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: https://ods.rutgers.edu/students/documentation-guidelines. If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible To begin this process, please complete the registration form on the ODS web site at: https://ods.rutgers.edu/students/registration-form.

Scarlet Listeners

(732) 214-9069 / http://rutgers.campuslabs.com/engage/organization/scarletlisteners

Free and confidential peer counseling and referral hotline, providing a comforting and safe space.