Advanced Calculus II, Syllabus, Spring 2022

Note: Due to the University’s remote operating statue from 01/18/2022 through 01/30/2022, this is a tentative syllabus, subject to revision.

*The department of Mathematics and Computer Science welcomes all students. We are acutely aware of the issues surrounding BLM and the COVID pandemic, and we are committed to creating as inclusive, diverse, and comfortable environment as possible for all students.*

**Course description**

The calculus of functions of one or more real variables; transformations and implicit functions; line and surface integrals. This is the second semester of the course.

**Instructor:** Dr. Anastasiia Tsvietkova, email: [a.tsviet@rutgers.edu](mailto:a.tsviet@rutgers.edu), office: Smith Hall 323; personal website: [https://sites.rutgers.edu/anastasiia-tsvietkova/contact/](https://sites.rutgers.edu/anastasiia-tsvietkova/contact/)

**Course website:** course materials and grades are at Canvas website, canvas.rutgers.edu. Please check both Canvas and your Rutgers email regularly.

**Class meets**

Monday 10:00 AM - 11:20 AM  
Wednesday 10:00 AM - 11:20 AM

**Locations**

*Remote* (during University’s defined online instruction period only): by Zoom.  
Zoom link: https://rutgers.zoom.us/j/98370582474?pwd=YkV3cFZFaM9dTVlVEZoQT09  
Password: 2022  
Meeting ID: 983 7058 2474  
Join by Skype for Business [https://rutgers.zoom.us/skype/98370582474](https://rutgers.zoom.us/skype/98370582474)

*On Campus* (during University’s defined in-person instruction period only): Newark ENG-203 (Engelhard Hall)

Please pay attention to official Rutgers-Newark emails from administration regarding our operation status, and about online or in class instruction.

**Spring academic calendar:** [https://registrar.newark.rutgers.edu/registrar-spring-academic-calendar-0](https://registrar.newark.rutgers.edu/registrar-spring-academic-calendar-0)

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Spring Recess Begins</td>
<td>3/12/2022</td>
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<tr>
<td>Spring Recess Ends</td>
<td>3/20/2022</td>
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<tr>
<td>Regular Classes End</td>
<td>5/2/22</td>
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**Prerequisites:**

The first semester of this course, as well as 21&62:640:235 (Calculus 3), 238 (Foundations of Modern Math), and 350 (Linear Algebra), or permission of instructor.

**Office hours** always held by Zoom, the same link and passcode as for remote class (see above).  
For remote weeks, by Zoom, Monday 11:20 AM -12 PM.  
For in person weeks, by Zoom, Monday, 12:20-1 pm  
If you would like to meet virtually outside these hours, please email me to make an appointment.

Files section of our course on Canvas website.

Students are expected to read sections of textbook assigned as homework before the next class.

For the first two weeks of classes, we are asked by the university to use synchronous mode, remotely. That means you need to attend every class by Zoom in the usual time. Additionally, I will record the lectures, to provide an extra resource for you to review previously covered material as desired.

Zoom link (same as for office hours):

Homework: Textbook reading and ungraded homework will be assigned during most classes, and reviewed during the following classes. I will also add the ungraded homework to Files section in Canvas. Keep up with the assignment and formulate your questions. We will start classes with a discussion based on your questions.

You are recommended to write full solutions for every homework problem. If you would like me to have a look at your solutions, you are welcome to bring them to office hours. Later these problems are likely to appear on quizzes and exams. Discussing homework problems with fellow students is allowed, but copying or allowing to copy the exact solution or answer is not. Thus, you must write everything down individually after any discussions took place.

Quizzes/worksheets: Short in class quizzes will cover some items from your reading and homework. They are individual, timed, closed-book assignments. Longer take-home assignments (worksheets) may also be given. Not only correct answers, but the well-written solutions are important for full credit. If you are late for the class or leave early without securing the permission ahead, the quiz/worksheet grade may be reduced.

Attendance and work at home: As with any mathematics course, live lectures and discussions offer unique opportunities for firsthand learning. Nonetheless much learning takes place outside the classroom by reading the book and thinking about homework problems. Please plan at least 4 hours of home practice per every hour spent in class. Doing homework regularly and in a timely fashion is the key to keeping up with the class, doing well on quizzes and exams, and getting a good grade for the course.

Grades: Your grade for the course will be based on in-class quizzes, take home assignments (worksheets), in-class midterm exams, and final exam. Keep your graded work and check records in Canvas gradebook until final grades are posted.

The approximate grade breakdown will be as follows:
30%: In-class quizzes and take-home assignments (worksheets)
40%: Two in-class midterm exams, 20% each.
30%: In-class final exam.

Exam dates: Final exam is comprehensive, and is held at 8:30–11:30 am on May 9, Monday, in our regular classroom. Midterm exams will fall approximately on class 10 and class 20 out of tentative 28 classes we have this semester.

Makeup policy
If you miss a quiz, you receive 0 for it. Thus attendance is important. If you are late for the class or leave early without securing the permission ahead, the quiz/worksheet grade may be reduced.

In general, there are no make-ups unless there are very special circumstances and the explaining documentation is provided. In such cases, please contact me, the Office of Academic Services (OAS), and the Dean of Students. Examples of such circumstances: illness with a doctor’s note, a covid test
confirmation (positive or negative), or other unexpected events that can be verified by the Dean of Students or the Office of Academic Services (OAS), with a verification letter from them. In those very special cases, the final quiz and the penultimate quiz can be counted twice, instead of the one or two missed quizzes. Additionally, two lowest quiz/worksheet scores will be dropped.

Midterm Exam makeups are allowed only in extreme emergencies, such as a documented medical emergency, with an advance notice sent to me via e-mail. A make up can be harder than the actual exam.

You must be present on the final exam to receive any grade beyond F or (under very special circumstances) incomplete grades.

Calculators and other quiz/exam policies: No books, calculators or notes are allowed on exams and quizzes. Please no talking or leaving the room during quizzes without permission. Bring your ID to quizzes and be ready to show it. Students are responsible for ensuring they do not have conflicting class and schedule arrangements.

Mask mandate
In order to protect the health and well-being of all members of the Rutgers-Newark community, masks must be worn by all persons inside campus buildings when in the presence of others, and in buildings in non-private enclosed settings (e.g., common workspaces, workstations, meeting rooms, classrooms, etc.). Masks should securely cover the nose and mouth. Masks must be worn during class meetings. If you forgot a mask, all departments are trying to keep a supply of masks freely available to faculty, staff, and students.

My Campus Pass
Each day before you arrive on campus or leave your residence hall, you must complete the brief survey on the My Campus Pass symptom checker self-screening app found at: myRutgers Portal.

Students with disabilities: Any student with a documented disability who needs to arrange reasonable accommodations must contact the Office of Disability Services (ODS). If your request for reasonable accommodations is approved, you will receive a Letter of Accommodations (LOA), which you should present privately to the instructor as early in the semester as possible. Accommodations are not retroactive and are effective only upon submission of the LOA to the instructor. Instructor is authorized to provide only the accommodations requested by the ODS.

Classroom etiquette: Be considerate of the instructor and those around you. Come to class on time and stay the entire period. Turn off cell phones. Refrain from reading newspapers or working on other coursework during class. No taping, filming, or photography in class without a prior permission. No listening to music during class. Etiquette violations might result in reducing quiz and worksheet grades.

Academic Standards of Conduct: All students are expected to follow Rutgers Code of Academic Conduct. Cheating and plagiarism will not be tolerated. Violations of academic integrity can result in serious consequences including probation, failing grades, suspension, and expulsion from the university. More at http://academicintegrity.rutgers.edu/

Religious Holiday Policy and Accommodations: Students are advised to provide timely notification to instructors about necessary absences for religious observances and are responsible for making up the work or exams according to an agreed-upon schedule. The Division of Student Affairs is available to verify absences for religious observance, as needed: http://sasn.rutgers.edu/oas, (973) 353-5063 or DeanofStudents@newark.rutgers.edu

Counseling Services: Counseling Center Room 101, Blumenthal Hall, (973) 353-5805 or counseling.newark.rutgers.edu
**Students with Temporary Conditions/Injuries:** Students experiencing a temporary condition or injury that is adversely affecting their ability to fully participate in their courses should submit a request for assistance at: temporaryconditions.rutgers.edu

**Gender or Sex-Based Discrimination or Harassment:** Students experiencing any form of gender or sex-based discrimination or harassment, including sexual assault, sexual harassment, relationship violence, or stalking, should know that help and support are available.

To report an incident, contact the Office of Title IX and ADA Compliance: (973) 353-1906 or TitleIX@newark.rutgers.edu

To submit an incident report: tinyurl.com/RUNReportingForm

To speak with a staff member who is confidential and does NOT have a reporting responsibility, contact the Office for Violence Prevention and Victim Assistance: (973) 353-1918 or run.vpva@rutgers.edu

**Additional Support:** Especially in these challenging times, all students should be aware of the support and resources listed at the following site. Please take a few minutes to review: myrun.newark.rutgers.edu/covid-financial-resources

**A brief (incomplete) list of textbook sections and topics covered last semester:**

Sections 1.1-1.3, 2.1-2.4, Rational sequences. Divergence. 3.1-3.3, 3.6

**Topics discussed this semester** will appear with your homework on Canvas website, in Files section of the course.