01:640:423:01 Elementary Partial Differential Equations  Fall 2021

Instructor: Jingni Xiao     Email: jingni.xiao@rutgers.edu

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1 Basic Info

- Course page (423:01): Canvas     Additional: Math Department course page
- Class meetings: MW 5:00-6:20pm; Mon: online (Zoom), Wed: ARC-204, BUS
- Office hours: (Zoom link and most up-to-date information on Canvas)
  Zoom: Mon 10:30–11am, Wed 4–4:30pm, Thu 11–11:30am; or by appointment
- Prerequisite: Calc 1 – 4
- Tech requirements: https://math.rutgers.edu/academics/undergraduate/1641-technology-requirements-

Course Policies

- Grading: Homework (HW) & Quizzes: 25%; Exams 1 & 2: 40%; Final exam: 35%.
- NO late homework will be accepted; There is NO make-up for quizzes or exams.
  - HW is (scanned and) submitted to Canvas; Quizzes and exams are held in classrooms.
  - If you need any accommodation, contact me at least 3 days before the due time.
- Attendance is required for both (NOT either) in-person and online classes.
  If you have to be absent due to quarantine or any other issue, you should contact me ASAP and before
  any class(es) you may miss.

Academic Integrity

- All quizzes and exams are closed-book (no calculators) tests, unless otherwise instructed.
- Homework (HW): You may discuss HW problems with me or with other students. However, you must
  write your solution independently, not in concert with others. If you consult any source (a web
  page, a preprint, a book, a file, etc.) in the preparation of HW, you must explicitly acknowledge this
  by citing that source. The work you turn in must be written up in your own words, not copied from
  a source. Failure to observe these restrictions will be treated as a violation of the Rutgers Academic
  Integrity Policy.
- Rutgers Academic Integrity http://nbacademicintegrity.rutgers.edu/
  All students in the course are expected to be familiar with and abide by the academic integrity policy.
  Violations of the policy are taken very seriously.
2 Course schedule

[Academic Calendar — Scheduling and Space Management (rutgers.edu)]

Exam Dates

<table>
<thead>
<tr>
<th></th>
<th>Exam 1</th>
<th>Exam 2</th>
<th>Final</th>
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<tbody>
<tr>
<td></td>
<td>Oct 6 (Wed), in class</td>
<td>Nov 10 (Wed), in class</td>
<td>Dec 20 (Mon), 4-7pm</td>
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</tbody>
</table>

“Special” dates: 9/6 (no class), 9/8 (Monday schedule), 11/29 (Wednesday schedule), 11/24-27 (Thanksgiving recess)

(Tentative) Schedule

Wednesdays: ARC-204; Mondays: Zoom

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<thead>
<tr>
<th>#</th>
<th>Wed</th>
<th>Reading</th>
<th>ARC-204</th>
<th>#</th>
<th>Mon</th>
<th>Reading</th>
<th>Zoom</th>
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<tr>
<td>1</td>
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<td>1.1</td>
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<td>6</td>
<td>6-Sep</td>
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<tr>
<td>2</td>
<td>8-Sep</td>
<td>1.2</td>
<td>Zoom</td>
<td>3</td>
<td>13-Sep</td>
<td>1.2</td>
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<td>4</td>
<td>15-Sep</td>
<td>1.3</td>
<td></td>
<td>5</td>
<td>20-Sep</td>
<td>1.3,1.4</td>
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<tr>
<td>6</td>
<td>22-Sep</td>
<td>1.3,1.4</td>
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<td>7</td>
<td>27-Sep</td>
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<tr>
<td>8</td>
<td>29-Sep</td>
<td>1.8</td>
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<td>9</td>
<td>4-Oct</td>
<td>1.7</td>
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<tr>
<td>10</td>
<td>6-Oct</td>
<td></td>
<td>Exam 1</td>
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Chapter 2: PDEs on Unbounded Domains

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<tr>
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<td>13</td>
<td>18-Oct</td>
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<tr>
<td>14</td>
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Chapters 3: Orthogonal Expansions

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<td>17</td>
<td>1-Nov</td>
<td>3.3</td>
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Chapter 4: PDEs on Bounded Domains

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<td>24-Nov</td>
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<td>29-Nov</td>
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<td>28</td>
<td>13-Dec</td>
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The above schedule of materials is subjected to change without notice in advance.
3 Information Related to COVID

Useful links:

- Universitywide COVID-19 Info
- Info on proper masks and the proper way to wear them
- CDC guidelines for face coverings

In order to protect the health and well-being of all members of the University community, **masks must be worn** by ALL persons on campus when in the presence of others (within six feet) and in ALL buildings in non-private enclosed settings (e.g., common workspaces, workstations, meeting rooms, classrooms, etc.). This include but not limited to:

- Masks must be worn during **in-person class meetings**.
- Masks should conform to **CDC guidelines** and should always fully cover the **mouth AND nose**.
- Any student refusing to properly wearing a proper mask in class will be asked to **leave**. Students who are disruptive and habitually refuse to wear acceptable masks, or persist in wearing them incorrectly, should be **reported to Student Conduct**.
- **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.
4 Rutgers Policies and Services

Students with Disabilities

Rutgers is fully committed to compliance with the Americans with Disabilities Act; policies and procedures are indicated at [http://ods.rutgers.edu/](http://ods.rutgers.edu/).

Students who wish to request special accommodations must present a Letter of Accommodations to the instructor as early in the term as possible (see [https://ods.rutgers.edu/my-accommodations/letter-of-accommodations](https://ods.rutgers.edu/my-accommodations/letter-of-accommodations)).

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/](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 professional within Rutgers Health 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](http://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 hours, call 848-932-1181.

Disability Services

(848) 445-6800 / Lucy Stone Hall, Suite A145, Livingston Campus, 54 Joyce Kilmer Avenue, Piscataway, NJ 08854 / [https://ods.rutgers.edu/](https://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](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 website at: [https://ods.rutgers.edu/students/registration-form](https://ods.rutgers.edu/students/registration-form)

Scarlet Listeners

(732) 214-9069 / [https://rutgers.campuslabs.com/engage/organization/scarletlisteners](https://rutgers.campuslabs.com/engage/organization/scarletlisteners)

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