NJIT Academic Integrity Code: All Students should be aware that the Department of Mathematical Sciences takes the University Code on Academic Integrity at NJIT very seriously and enforces it strictly. This means that there must not be any forms of plagiarism, i.e., copying of homework, class projects, or lab assignments, or any form of cheating in quizzes and exams. Under the University Code on Academic Integrity, students are obligated to report any such activities to the Instructor.

COURSE INFORMATION

Course Description: All master's and doctoral students receiving departmental or research-based awards must register for this course each semester. Effective From: Fall 2006.

This course is a zero-credit seminar course, mandatory for all supported PhD students. The aim of the course is to introduce PhD students to methods of mathematical and interdisciplinary research by means of seminars and (for the enhanced mode) accompanying reading. The enhanced mode is specifically designed to familiarize students with the research of DMS faculty members, to better equip them to choose a thesis advisor.

Number of Credits: 3

Prerequisites: Registration in the Ph.D. program or departmental approval.

Course-Section and Instructors

<table>
<thead>
<tr>
<th>Course-Section</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>Math 791-002</td>
<td>Professor L. Kondic</td>
</tr>
</tbody>
</table>

Materials: There is no textbook for this course. First year PhD students who take the enhanced mode of the course (described below) will be expected to read the materials accompanying the faculty lectures as directed.

University-wide Withdrawal Date: Please note that the last day to withdraw with a W is March 28, 2016. It will be strictly enforced.

COURSE OUTLINE: BASIC MODE AND ENHANCED MODE

Basic Mode: Full-time PhD students in or beyond their second year of study take the basic mode of this course. This consists of attendance at the weekly Applied Math colloquium, which is presented by invited speakers of national and international repute. Students must submit short (between 1 paragraph and one page) written reports on the seminars through the provided web-based interface, no later than one week after the seminar takes place.
Details of the seminar schedule may be found at the Departmental Applied Math Colloquium webpage, or at the Applied Math Colloquium Google Calendar, which will be shared with registered students.

Enhanced Mode: In addition to the requirements of the Basic Mode outlined above, students in their first year on the PhD program will attend a series of faculty research talks, held approximately fortnightly. Faculty members who give these talks will provide a list of accompanying reading. Students will choose one faculty talk per semester to study in detail, and will provide a short written report on this research topic at semester’s end. The report should provide evidence of supplementary reading and research on the chosen topic.

Details of the faculty talks will be posted on the Applied Math Colloquium Google Calendar, which will be shared with registered students.

Policies

DMS Course Policies: All DMS students must familiarize themselves with, and adhere to, the Department of Mathematical Sciences Course Policies, in addition to official university-wide policies. DMS takes these policies very seriously and enforces them strictly.

Basic Mode Grading Policy

| Written Reports for Colloquium | 100% |

Enhanced Mode Grading Policy

| Written Reports for Colloquium | 35% |
| Written Report for Chosen Faculty Talk | 35% |
| Attendance at Faculty Talk | 30% |

Grade Scale

| S  | 70% | U  | < 70% |

Attendance Policy: Attendance at all classes will be recorded and is mandatory. Please make sure you read and fully understand the Math Department’s Attendance Policy. This policy will be strictly enforced.

Cellular Phones: All cellular phones and other electronic devices must be switched off during all class times.

Additional Resources

Accommodation of Disabilities: NJIT is committed to providing students with documented disabilities equal access to programs and activities. If you have, or believe that you may have, a physical, medical, psychological, or learning disability that may require accommodations, please contact the Coordinator of Student Disability Services located in the Center for Counseling and Psychological Services, in Campbell Hall, Room 205, (973) 596-3414. Further information on disability services related to the self-identification, documentation and accommodation processes can be found on the webpage at:


Important Dates (See: Spring 2016 Academic Calendar, Registrar)
## Course Outline

*Events: Dates subject to change. Faculty seminars (FS) will be announced by email to class members.*

<table>
<thead>
<tr>
<th>Week</th>
<th>Day</th>
<th>Event*</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Monday</td>
<td>2:30PM - 3:30PM</td>
</tr>
<tr>
<td></td>
<td>Friday</td>
<td>11:30AM - 1:00PM</td>
</tr>
</tbody>
</table>

*Updated by Professor L. Kondic - 12/29/2015*

Department of Mathematical Sciences Course Syllabus, Spring 2016