

22M:095
Introduction to Research Opportunities
Spring 2008

	Contact/class informa-
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tion	
Office:	MLH 325B
Office hours:	WF 10:30–11:30am; Th 1:30–3:30pm
Class times:	3:30pm–4:20pm Th
Class location:	114 MLH

You can see me outside the office hours provided it is mutually convenient.

Description

22M:095 is about the different kinds of mathematical research that goes on in the Mathematics Department. So you can expect to hear faculty members talk about their research on topics like: topology, knots, algebra, commutative rings, number theory, differential equations, chaos, partial differential equations, mathematical modeling (e.g., of nerves, traffic flow, bacteria, & bouncing balls), wavelets (for sound and video compression), numerical analysis, logic, infinite-dimensional spaces, and many other topics.

Textbook

There is no textbook for this course.

Syllabus

There is no official list of topics for this course.

Assessment

Assessment will be mainly based on attendance, but you will also have the opportunity to write a short essay on an area of interest for mathematical research. The final score will be 80% from attendance and 20% from the essay.

Notes

1. **Course plan:** The course plan may be modified during the semester. Such modifications will be announced in advance during class periods; the student has responsibility for keeping up with such changes. You should also make a habit of reviewing the ICON web page for this course, which is accessible via: ICON <http://icon.uiowa.edu/> This page will have homework details and other information posted to it as the class progresses.
2. **Administration:** The administrative home of this course is The Department of Mathematics in the College of Liberal Arts and Sciences: offices are in 14 McLean Hall (MLH). You can contact the chair of the department through the Departmental Secretary at 14 MLH or by calling 335-0714. Since the administrative home of this course is the College of Liberal Arts and Sciences, which governs academic matters relating to the course such as add/drop deadlines, second-grade-only option, issues concerning academic fraud or academic probation, and how credits are applied for various CLAS requirements. Please keep in mind that different colleges might have different policies. If you have questions about these or other CLAS policies, visit your academic advisor or 120 Schaeffer Hall and speak with the staff. The CLAS Academic Handbook is another useful source of information on CLAS academic policy: www.clas.uiowa.edu/students/academic_handbook/index.shtml
3. **Academic Fraud:** Plagiarism and any other activities that result in a student presenting work that is not his or her own are academic fraud. Academic fraud is reported to the departmental DEO and then to the Associate Dean for Academic Programs and Services in the College of Liberal Arts and Sciences who deals with academic fraud according to these guidelines: http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml
4. **Disabilities:** A student seeking academic accommodations should first register with Student Disability Services and then meet with a SDS counselor who determines eligibility for services. A student approved for accommodations should meet privately with the course instructor to arrange particular accommodations. See <http://www.uiowa.edu/~sds>
5. **Suggestions & complaints:** Students have the right to make suggestions or

complaints and should first visit with the instructor, then with the course supervisor if appropriate, and next with the departmental DEO. All complaints must be made within six months of the incident. http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml#5

6. ***Sexual Harassment:*** Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. Visit <http://www.sexualharassment.uiowa.edu/> for definitions, assistance, and the full policy.
7. ***Reacting Safely to Severe Weather:*** If severe weather is indicated by the UI outdoor warning system, class members will seek shelter in the innermost part of the building, if possible at the lowest level, staying clear of windows and of free-standing expanses which might prove unstable. The class will resume after the severe weather has ended. See the Operations Manual section 16.14. i(<http://www.uiowa.edu/%7Eour/opmanual/v/16.htm#1614d>).
8. ***Student Classroom Behavior:*** The ability to learn is lessened when students engage in inappropriate classroom behavior, distracting others; such behaviors are a violation of the Code of Student Life. When disruptive activity occurs, a University instructor has the authority to determine classroom seating patterns and to request that a student exit immediately for the remainder of the period. One-day suspensions are reported to appropriate departmental, collegiate, and Student Services personnel (Office of the Vice President for Student Services and Dean of Students).
9. ***University Examination Policies:*** Missed exam policy. University policy requires that students be permitted to make up examinations missed because of illness, mandatory religious obligations, certain University activities, or unavoidable circumstances. Excused absence forms are available at the Registrar web site: <http://www.registrar.uiowa.edu/forms/absence.pdf>
10. ***Final Examinations:*** An undergraduate student who has two final examinations scheduled for the same period or more than three examinations scheduled for the same day may file a request for a change of schedule before the published deadline at the Registrar's Service Center, 17 Calvin Hall, 8-4:30 M-F, (384-4300).