

## *Course Syllabus*

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### **Course Information - Spring 2013**

MATH 4390.001  
Senior Research and Advanced Writing  
Room: GR 4.204  
Time: MW 4:00-5:15  
Final: None

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### **Professor Contact Information**

Prof. Matthew Goeckner  
Office: FO 2.610B or NSERL 3.408  
Phone: 4292/3  
Email: Goeckner @ utdallas.edu  
Office Hours:  
9 to 5 most days (Or when my office door is open)  
M-W Generally I will be in FO  
Th-F Generally I will be in NSERL  
By appointment (please use email to set this up!)

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### **Course Pre-requisites, Co-requisites, and/or Other Restrictions**

Senior Standing in Math/Stat

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### **Course Description**

**Senior Research and Advanced Writing** (3 semester hours) For students conducting independent research and scientific writing. Individual instruction course designed to develop skills for research and clear, precise and accurate scientific writing. Topics will vary from section to section depending upon the interests of the student, but will be selected from a specific area of mathematics. Subject and scope to be determined on an individual basis. Satisfies the Advanced Writing Requirement. Prerequisite: senior in mathematics. (3-0) S

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### **Student Learning Objectives/Outcomes**

Upon completion of this course, students will have:

- (a) An understanding how to **read** scientific literature in Mathematics/Statistics
  - (b) An understanding how to **write** scientific literature in Mathematics/Statistics
  - (c) An understanding how to give a scientific **presentation** in Mathematics/Statistics
  - (d) Be able to **make use of some of the tools** used for the above items.
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### **Required Textbooks and Materials – NONE**

Notes, supporting material, other resources will be posted on eLearning

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### **Assignments & Academic Calendar**

*(Topics, Reading Assignments, Due Dates, Exam Dates)*

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<b>Grade Policy: Attendance</b>	--	<b>20%</b>
<b>In class presentation of a single scientific article</b>	--	<b>20%</b>
<b>Written review of mathematics topic (4-5 papers analyzed)</b>	--	<b>30%</b>
<b>Oral presentation of mathematics topic review</b>	--	<b>30%</b>
<b>Total</b>	--	<b>100%</b>

**Possible extra credit**

1 written review of a Math/Stat seminar (attendance required) -- 10%

**Grade ranges are:** A+: 97-100; A: 93-96; A-: 90-92; B+: 87-89; B: 83-86; B-: 80-82; C+: 77-79; C: 73-76; C-: 70-72; D+: 67-69; D: 63-66; D-: 60-62; F: below 60.

**Note: Grading policy subject to change!**

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**Course & Instructor Policies**

*(make-up exams, extra credit, late work, special assignments, class attendance, classroom citizenship, etc.)*

**Exams:** There are currently no formal exams in this course. Quizzes on lecture material are shown on the schedule.

**Homework:** Class notes are due as shown on the schedule above. Notes must be taken for each class and **rewritten neatly and accurately** before turning in on the due date shown. Homework due dates are approximate and will be updated as homework is assigned.

**Semester Project:** The semester project will be assigned as shown on the schedule above. Note that the project grade is a team grade, including the presentation/demo and the final report.

**Class attendance:** Class attendance is taken.

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**Off-campus Instruction and Course Activities**

*Below is a description of any travel and/or risk-related activity associated with this course.*

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**Policies and Procedures for Students**

The University of Texas at Dallas provides a number of policies and procedures designed to provide students with a safe and supportive learning environment. Brief summaries of the policies and procedures are provided for you at <http://provost.utdallas.edu/home/index.php/syllabus-policies-and-procedures-text> and include information about technical support, field trip policies, off-campus activities, student conduct and discipline, academic integrity, copyright infringement, email use, withdrawal from class, student grievance procedures, incomplete grades, access to Disability Services, and religious holy days. You may also seek further information at these websites:

- [http://www.utdallas.edu/BusinessAffairs/Travel\\_Risk\\_Activities.htm](http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm)
- <http://www.utdallas.edu/judicialaffairs/UTDJudicialAffairs-HOPV.html>
- <http://www.utsystem.edu/ogc/intellectualproperty/copypol2.htm>
- <http://www.utdallas.edu/disability/documentation/index.html>

***These descriptions and timelines are subject to change at the discretion of the Professor.***