### FLORIDA ATLANTIC UNIVERSITY

#### Graduate Programs—NEW COURSE PROPOSAL

<table>
<thead>
<tr>
<th>DEPARTMENT:</th>
<th>COLLEGE:</th>
</tr>
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<tbody>
<tr>
<td>MATHEMATICAL SCIENCES</td>
<td>SCIENCE</td>
</tr>
</tbody>
</table>

**RECOMMENDED COURSE IDENTIFICATION:**

- **PREFIX:** MAP
- **COURSE NUMBER:** 6941
- **LAB CODE (L or C):**

(to obtain a course number, contact rshiman@fau.edu)

**COMPLETE COURSE TITLE:** Internship in Applied Mathematics

<table>
<thead>
<tr>
<th>CREDITS:</th>
<th>TEXTBOOK INFORMATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1–6²</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**GRADING (SELECT ONLY ONE GRADING OPTION):**

- REGULAR
- SATISFACTORY/UNSATISFACTORY **X**

**COURSE DESCRIPTION, NO MORE THAN THREE LINES:**

Supervised internships individually assigned to accommodate graduate students' professional development in applied mathematics. May be repeated for a maximum of 6 credits.

<table>
<thead>
<tr>
<th>PREREQUISITES *:</th>
<th>COREQUISITES *:</th>
<th>REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL) *:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERMISSION BY INSTRUCTOR</td>
<td>NONE</td>
<td>GRADUATE LEVEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PERMISSION OF INSTRUCTOR</td>
</tr>
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</table>

*PREREQUISITES, COREQUISITES AND REGISTRATION CONTROLS WILL BE ENFORCED FOR ALL COURSE SECTIONS.*

**MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE:**

Graduate Faculty in the Department of Mathematical Sciences

- Faculty contact, email and complete phone number:
  - Rainer Steinwand
  - rsteinwa@fau.edu
  - 297-3353

- Please consult and list departments that might be affected by the new course and attach comments.³
- N/A

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**Approved by:**

- **Date:** 9/4/15
- **Date:** 11/15/15


3. Consent from affected departments (attach if necessary)

Email this form and syllabus to UGPC@fau.edu one week before the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.

**PAUnewcresGrad—Revised September 2012**
# Syllabus

**1. Course Name**  
Internship in Applied Mathematics

**Course Number**  
MAP 6941

**Credit Hours**  
1-6

**2. Course Prerequisites**  
Permission by instructor

**3. Instructor**  
Rainer Steinwandt, Office SE 234A  
Phone: (561) 297-3353, fax (561) 297-2436  
E-mail address: rsteinwa@fau.edu  
Office hours: Monday and Wednesday 9:30am–11:30am

**4. Course Description**  
Supervised internships individually assigned to accommodate graduate students' professional development in applied mathematics. May be repeated for a maximum of 6 credits.

**5. Course Objectives**  
By finishing this course successfully, students will be able to apply mathematical techniques and tools in a real-world setting over an extended period of time. Course participants learn how to make use of mathematical tools in an applied context.

**6. Lecture Schedule**  
N/A

**7. Required Text**  
N/A

**8. Supplementary/Recommended Readings**  
N/A

**9. Assessment Procedure and Grading**  
The main achievements and activities in the Internship have to be documented in a written report which has to be made available to the instructor by the date Master's theses have to be received by FAU’s Graduate College. For a satisfying grade, graduate-level mathematical techniques must have been used successfully to meet an applied need in the institution facilitating the Internship. To decide if the application need has been met adequately, the instructor may seek feedback from the institution where the Internship has taken place.

**10. Incomplete Grades**  
A grade of I (incomplete) will only be given under certain conditions and in accordance with the academic policies and regulations put forward in FAU’s University Catalog. The student has to show exceptional circumstances why requirements cannot be met. A request for an incomplete grade has to be made in writing with supporting documentation, where appropriate.

FAUnewcrseGrad—Revised September 2012
11. Makeup Tests and Extra Credit

If you cannot complete an assignment due to a relevant reason like significant health problems or being involved in a major traffic accident, and you document this, then you can make up the respective assignment. Extra credit work is not possible.

12. Method of Instruction

The method of instruction will depend on the particular internship. The use of computers and software may be required.

13. Disability Policy Statement

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) located in Boca Raton - SU 133 (561-297-3880), in Davie - MOD 1 (954-236-1222), in Jupiter - SR 117 (561-799-8585), or at the Treasure Coast - CO 128 (772-873-3305), and follow all OSD procedures.


Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty, including cheating and plagiarism, is considered a serious breach of these ethical standards, because it interferes with the University mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the University community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001 at http://www.fau.edu/ctl/4.001_Code_of_Academic_Integrity.pdf.