### Graduate Programs—COURSE CHANGE REQUEST

**DEPARTMENT:** PHYSICS  
**COLLEGE:** CHARLES E. SCHMIDT COLLEGE OF SCIENCE

**COURSE PREFIX AND NUMBER:** PHZ 6245  
**CURRENT COURSE TITLE:** MEDICAL IMAGING PHYSICS

**CHANGE(S) ARE TO BE EFFECTIVE (LIST TERM):** SPRING 2014  
**TERMINATE COURSE (LIST FINAL ACTIVE TERM):**

**CHANGE TITLE TO:**

**CHANGE PREFIX FROM:** PHZ  
**CHANGE TO:** RAT

**CHANGE COURSE NO. FROM:** 6245  
**CHANGE TO:** 6616

**CHANGE CREDITS:** FROM:  
**CHANGE TO:**

**CHANGE GRADING FROM:**

**CHANGE DESCRIPTION TO:** Course describes the basics of non-invasive imaging techniques, including Magnetic Resonance Imaging (MRI), functional MRI, Diffusion Tensor Imaging (DTI), electro-and magneto-encephalography (EEG, MEG). Course also covers analysis and visualization of high-dimensional datasets.

**COLLEGE:** CHARLES E. SCHMIDT COLLEGE OF SCIENCE

**CURRENT COURSE TITLE:** MEDICAL IMAGING PHYSICS

**CHANGE PREREQUISITES/MINIMUM GRADES TO:**

Must be enrolled as graduate student

**CHANGE COREQUISITES TO:**

**CHANGE REGISTRATION CONTROLS TO:**

*Please list both existing and new pre/corequisites, specify AND or OR, and include minimum passing grade.

**Faculty contact, email and complete phone number:**

**Armin Fuchs, fuchsuuccs.fau.edu 561-297-0125**

**Approved by:**

**Department Chair:**  
**College Curriculum Chair:**  
**College Dean:**  
**UGPC Chair:** Nancy Lampert  
**Graduate College Dean:**  
**UFS President:**  
**Provost:**

**Date:**  
2/6/13  
2/6/13  
3/30/13  
2/20-13

**1. Syllabus must be attached; see guidelines for requirements:**


**2. Review Provost Memorandum:**

Definition of a Credit Hour  
www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf

**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.

FAUchange—Revised September 2012
**FLORIDA ATLANTIC UNIVERSITY**

Graduate Programs—PROGRAM CHANGE REQUEST

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<tr>
<th>DEPARTMENT: GEOSCIENCE</th>
<th>COLLEGE: SCIENCE</th>
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**PROGRAM NAME:** COMBINED BACHELOR OF ARTS WITH MAJOR IN GEOGRAPHY

**EFFECTIVE DATE**

(PROVIDE TERM/YEAR)

FALL 2012 2013

Dr. Charles Roberts, Croberts@fau.edu

297-3254

Consult and list departments that might be affected by the change and attach comments.

None, this is internal to the Geoscience program.

Approved by:

Department Chair:  
College Curriculum Chair:  
College Dean:  
UGPC Chair:  
Graduate College Dean:  
UGPC Chair:

Date:  
2/5/13

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FAUprogramchangeGrad—Revised November 2012

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**PLEASE EXPLAIN THE REQUESTED CHANGE(S) AND OFFER RATIONALE BELOW AND/OR ATTACHED:**

This is a fast track bachelors of arts to masters of arts degree. Students apply the first semester of their senior year, and take graduate level versions of required undergraduate courses or other graduate courses in their senior year. These courses count towards both degrees. They earn their BA at the end of the senior year, and are admitted to the MA program with 9-12 credits completed.

A total of 120 credits are needed for the BA, and a minimum of 22 additional graduate credits would be taken. Students would have 34 credits of graduate coursework at the end of the program, which would be completed no more than 18 months after they finished the BA degree.
**Graduate Programs—NEW COURSE PROPOSAL**

**DEPARTMENT NAME:** PHYSICS  
**COLLEGE OF:**  
CHARLES E. SCHMIDT COLLEGE OF SCIENCE

**RECOMMENDED COURSE IDENTIFICATION:**

<table>
<thead>
<tr>
<th>PREFIX</th>
<th>RAT</th>
<th>COURSE NUMBER</th>
<th>LAB CODE (L or C)</th>
<th>COMPLETE COURSE TITLE</th>
<th>SHIELDING AND COMMISSIONING</th>
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<td>6701</td>
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**CREDITS:** 3  

**TEXTBOOK INFORMATION:** *Shielding Techniques*, Patton H. McGinley; User manuals: Eclipse, BrainLab, Oncentra, Variseed, Cyberknife, Tomotherapy American Association of Physicist in Medicine (AAPM), all TG reports: 106. NCRP 151, NCRP 147, NCRP 49.

**GRADING (SELECT ONLY ONE GRADING OPTION):** REGULAR _x_  
PASS/FAIL ______  
SATISFACTORY/UNSATISFACTORY ______

**COURSE DESCRIPTION, NO MORE THAN 3 LINES:** A course covering the science of opening a new radiation oncology center; covers shielding calculations, installing and running the acceptance testing of a linear accelerator, high dose rate brachytherapy remote afterloader, CT simulator and treatment planning systems. Commissioning of the treatment planning systems.

**PREREQUISITES W/MINIMUM GRADE:**

- Permission of the Instructor

**COREQUISITES:**

**OTHER REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL):**

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

- FACULTY OR BOARD CERTIFIED MEDICAL PHYSICIST

Other departments, colleges that might be affected by the new course must be consulted. List entities that have been consulted and attach written comments from each. NA

**Dr. Silvia Pella, DABR, Research Affiliate Associate Professor, mlpela@comcast.net, 561-789-6642**  
Faculty Contact, Email, Complete Phone Number

**SIGNATURES**

**SUPPORTING MATERIALS**

**Approved by:**

<table>
<thead>
<tr>
<th>Department Chair</th>
<th>Date</th>
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<th>College Curriculum Chair</th>
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<th>College Dean</th>
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<th>Dean of the Graduate College</th>
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Email this form and syllabus to sfuks@fau.edu and eqirjo@fau.edu one week before the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website by committee members prior to the meeting.
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<th>DEPARTMENT: PHYSICS</th>
<th>COLLEGE: CHARLES E. SCHMIDT COLLEGE OF SCIENCE</th>
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<tbody>
<tr>
<td>COURSE PREFIX AND NUMBER: PHZ 6304</td>
<td>CURRENT COURSE TITLE: INTRODUCTION TO NUCLEAR PHYSICS</td>
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<thead>
<tr>
<th>CHANGE TITLE TO: NUCLEAR MEDICAL PHYSICS</th>
<th>CHANGE PREREQUISITES/MINIMUM GRADES TO:*</th>
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<td>CHANGE PREFIX FROM: PHZ TO: RAT</td>
<td>Permission of the instructor</td>
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<tr>
<td>CHANGE COURSE NO. FROM: 5304 TO: 6687</td>
<td>CHANGE COREQUISITES TO:*</td>
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<td>CHANGE CREDITS FROM: TO:</td>
<td>CHANGE REGISTRATION CONTROLS TO:</td>
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<td>CHANGE GRADING FROM: TO:</td>
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CHANGE DESCRIPTION TO: This course covers the fundamentals of nuclear physics and its application in the medical field as recommended by the AAPM. At the end of the course the students should have a good understanding of the physics and instrumentation of nuclear medicine.

Should the requested change(s) cause this course to overlap any other FAU courses, please list them here. Please consult and list departments that might be affected by the change(s) and attach comments.

**Faculty contact, email and complete phone number:**
Th. Leventouri, leventou@fau.edu, 561-297-2695

**Approved by:**
Department Chair: ____________________________
College Curriculum Chair: ______________________
College Dean: ________________________________
UGPC Chair: _________________________________
Graduate College Dean: ________________________
UFS President: ________________________________
Provost: ________________________________________

**Date:**
2/6/13
2/1/13
2/1/13
2/20/13
2/26/13

3. Consent from affected departments (attach if necessary)

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*FAU*change—Revised September 2012