Web-based Course Approval System

Course Request Summary

Department Submitting Request: Biophotonics

Request for Action: NEW  Effective: 200810

Course Subject Area: Biophotonics

Subject Code: BPT Course Number: 280

Descriptive Title: Biophotonics Internship

Abbreviated Title: Biophotonics Internship

Units: 7 - 12

Learning Activity

1st INT 36 hrs/wk

In Progress Grading: None

Consent of Instructor: Yes

Prerequisite(s): Graduate standing

Restrictions on Enrollment: Open only to students in the Designated Emphasis in Biophotonics

Course Description: Research experience distinct from the student's dissertation topic at an industrial company, a national laboratory, or a cross-college laboratory for one quarter.

General Education: No GE Certification

Topical Breadth:

Diversity:

Writing Experience:

Cross Listing: Same Course as

Justification:

Repeat Credit: No

Credit Limitations:

Mode of Grading: SU

Quarters to be Offered: 1, II, III Each Year

Instructors Name(s): Current Chair of DE Biophotonics Title(s): Professor

Remarks:

A significant segment of the faculty and students of this DE has expressed the sentiment that to experience a biophotonic work environment distinctively different from their dissertation topic would be a positive student experience. Because this is a new and highly interdisciplinary field, the advanced level internship is designed for the students to further explore the wide possibilities this field offers.

Expanded Course Description

1. SUMMARY OF COURSE CONTENTS:

This elective course is designed to accommodate the special needs of some of the graduate students who desire a broader perspective in the overall topic of Biophotonics prior to their graduation. The goal is to perform an assignment in any of the three types
of settings: an industrial company, a government laboratory, or a research laboratory in a college or school (within UCD) different from the student's home department, that is distinct from the dissertation topic. The culture and environment of the new setting become a new learning experience.

2. **ILLUSTRATIVE READING:**

   None

3. **FINAL EXAMINATION REQUIREMENT:**
   A letter of certification from the internship laboratory's supervisor stating that the student has performed satisfactorily in his assignment and has been able to profit from being exposed to such an environment is required for S grade.

4. **JUSTIFICATION OF UNITS:**
   This should be equivalent to a full-time work experience.

5. **POSSIBLE COURSE OVERLAP:**
   There is a small possibility that students of this DE also are members of the DE in Biotechnology. In that case, the internship course in Biotechnology (MCB 282) may be used in lieu of this course if the content (affiliated institution or laboratory) is related to biophotonics. However, we propose this course to be purely an elective for our students. So we do not foresee any major course overlap.

6. **GENERAL EDUCATION JUSTIFICATION:**

   None

7. **ADDITIONAL INFORMATION FOR STUDENTS:**

   None

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**Annotations and Comments**

When a course is at the Courses Committee level, these preliminary comments are for committee use only. Instructors/departments should not read or respond to comments, unless a course has been returned for revision.
Web-based Course Approval System

Course Request Summary
Approved by Academic Senate on 01/13/2006

Department Submitting Request: Biophotonics
Request for Action: NEW Effective: 200601
Course Subject Area: Biophotonics
Subject Code: BPT Course Number: 290
Descriptive Title: Biophotonics Seminar
Abbreviated Title: Biophotonics Seminar
Units: 1
Learning Activity
1st SEM 1.0 hrs/wk

In Progress Grading: None
Consent of Instructor: No
Prerequisite(s): Graduate standing or consent of instructor
Restrictions on Enrollment: Graduate standing
Course Description: Presentation of current research in the area of biophotonics by experts in the field, followed by group discussions.

   General Education: No GE Certification
   Topical Breadth:
      Diversity:
   Writing Experience:
Cross Listing: Same Course as
Justification:
Repeat Credit: Yes
   May be Repeated up to 3 times or
   units and/or if
Credit Limitations:
Mode of Grading: SU
Quarters to be Offered: I,II,III Each Year
Instructors Name(s): Yeh Title(s): Professor
Remarks:
This is a new seminar course for a new Designated Emphasis in Biophotonics

Expanded Course Description

1. TOPICAL OUTLINE:
   Use of photonics methods to investigate the structure and dynamics of biological materials from molecules to cells and tissues. Use of photonics tools for the diagnostics, manipulation and therapeutic intervention of medical conditions.

2. READING:
   To be suggested by the speakers weekly.

3. GRADING PERCENTAGES:
   None

4. COURSE FORMAT AND REQUIREMENTS:
   None

5. EXPLANATION OF POTENTIAL COURSE OVERLAP:
   None

6. GENERAL EDUCATION JUSTIFICATION:

None

7. **ADDITIONAL INFORMATION FOR STUDENTS:**
   None

**Annotations and Comments**
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Shelley Brozenick Academic Senate 01:25:43P 01/13/2006