**Graduate Council Document No. 05-2g**

**EFFECTIVE SESSION:** Fall 2006

**DEPARTMENT:** Biomedical Engineering

**INSTRUCTIONS:** Please check the items below which describe the purpose of this request.

1. New course with supporting documents
2. Add existing course offered at another campus
3. Expiration of a course
4. Change in course number
5. Change in course title
6. Change in course credit/type

**PROPOSED:**

- **Subject Abbreviation:** BME
- **Course Number:** 553
- **Long Title:** Biomedical Optics
- **Short Title:** Biomedical Optics

**EXISTING:**

- **Subject Abbreviation:** BME
- **Course Number:** 555

**TERMS OFFERED:**

- Check All That Apply: Summer ☐ Fall ☑ Spring ☐

**CAMPUS(ES) INVOLVED:**

- Calumet ☑ Fort Wayne ☐
- Indianapolis ☐ N. Central ☐
- W. Lafayette ☐ Cont Ed ☑
- Tech Statewide ☐

**CREDIT TYPE:**

- Fixed Credit: Cr. Hrs. 3.0

**COURSE ATTRIBUTES:**

- Pass/Not Pass Only ☐
- Satisfactory/Unsatisfactory Only ☐
- Repeatable ☐
- Maximum Repeatable Credit: 4.0
- Credit by Examination ☐
- Designator Required ☐
- Special Fees ☐

**INSTRUCTIONAL TYPE:**

- Lecture: 50
- Laboratory: 50
- Clinic: 50
- Experimental: 50
- Presentation: 50
- Studio: 50
- Total: 50

**MEETINGS PER WEEK:**

- 3

**WEEKS OFFERED:**

- 16

**% OF CREDIT ALLOCATED:**

- 100%

**DELIVERY METHOD:**

- (Asyn. Or Syn.) Syn.

**DELIVERY MEDIUM(AUDIO, INTERNET, LIVE, TEXTBASED, VIDEO):**

- ☑

**COURSE DESCRIPTION:**

**Prerequisite:** Introductory biology and PHYS 241, or equivalent, and consent of instructor.

Optical methods applied to address biological and biomedical problems. Course includes two parts: fundamentals of optical microscopy and advanced techniques that are currently used to probe and/or manipulate cell and tissue samples. Professor Cheng.

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**OFFICE OF THE REGISTRAR**

**APPROVED 10/10/05**

Date Approved by Graduate Council

*Signature*

West Lafayette Registrar

Date

*Signature*

Graduate Dean

Date

*Signature*

North Central Chancellor

Date

*Signature*

Indiana School Dean

Date

*Signature*

Fort Wayne School Dean

Date

*Signature*

Calumet Department Head

Date

*Signature*

Calumet Undergrad Curriculum Committee

Date

*Signature*

Fort Wayne Department Head

Date

*Signature*

Indianapolis Department Head

Date

*Signature*

North Central Department Head

Date

*Signature*

West Lafayette Department Head

Date

*Signature*

Graduate Area Committee Convener

Date