

APPLICATION FOR NEW COURSE

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| 1. General Information. | | | | |
| a. | Submitted by the College of: Graduate School | Today's Date: | 2/2/10 | |
| b. | Department/Division: Center for Biomedical Engineering | | | |
| c. | Contact person name: David Puleo | Email: puleo@uky.edu | Phone: | 7-2405 |
| d. | Requested Effective Date: | <input checked="" type="checkbox"/> Semester following approval | OR | <input type="checkbox"/> Specific Term/Year ¹ : _____ |
| 2. Designation and Description of Proposed Course. | | | | |
| a. | Prefix and Number: BME 790 | | | |
| b. | Full Title: Research in Biomedical Engineering | | | |
| c. | Transcript Title (if full title is more than 40 characters): _____ | | | |
| d. | To be Cross-Listed ² with (Prefix and Number): _____ | | | |
| e. | Courses must be described by <u>at least one</u> of the meeting patterns below. Include number of actual contact hours ³ for each meeting pattern type. | | | |
| | _____ Lecture | _____ Laboratory ¹ | _____ Recitation | _____ Discussion |
| | _____ Clinical | _____ Colloquium | _____ Practicum | 2-18 Research |
| | _____ Seminar | _____ Studio | _____ Other – Please explain: _____ | |
| f. | Identify a grading system: | <input checked="" type="checkbox"/> Letter (A, B, C, etc.) | <input type="checkbox"/> Pass/Fail | |
| g. | Number of credits: | 1-9 | | |
| h. | Is this course repeatable for additional credit? | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> | |
| | If YES: Maximum number of credit hours: | 9 | | |
| | If YES: Will this course allow multiple registrations during the same semester? | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | |
| i. | Course Description for Bulletin: | Graduate research in any area of biomedical engineering, subject to approval of the Director of Graduate Studies. May be repeated to a maximum of 9 hours. | | |
| j. | Prerequisites, if any: | Consent of the Director of Graduate Studies. | | |
| k. | Will this course also be offered through Distance Learning? | YES ⁴ <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | |
| l. | Supplementary teaching component, if any: | <input type="checkbox"/> Community-Based Experience | <input type="checkbox"/> Service Learning | <input type="checkbox"/> Both |
| 3. | Will this course be taught off campus? | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | |
| 4. Frequency of Course Offering. | | | | |
| a. | Course will be offered (check all that apply): | <input checked="" type="checkbox"/> Fall | <input checked="" type="checkbox"/> Spring | <input type="checkbox"/> Summer |
| b. | Will the course be offered every year? | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> | |

¹ Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

² The chair of the cross-listing department must sign off on the Signature Routing Log.

³ In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, represents at least two hours per week for a semester for one credit hour. (from SR 5.2.1)

⁴ You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.

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| | If NO, explain: _____ | |
| 5. | Are facilities and personnel necessary for the proposed new course available? | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> |
| | If NO, explain: _____ | |
| 6. | What enrollment (per section per semester) may reasonably be expected? | 4 |
| 7. | Anticipated Student Demand. | |
| a. | Will this course serve students primarily within the degree program? | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> |
| b. | Will it be of interest to a significant number of students outside the degree pgm? | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |
| | If YES, explain: _____ | |
| 8. | Check the category most applicable to this course: | |
| | <input checked="" type="checkbox"/> Traditional – Offered in Corresponding Departments at Universities Elsewhere | |
| | <input type="checkbox"/> Relatively New – Now Being Widely Established | |
| | <input type="checkbox"/> Not Yet Found in Many (or Any) Other Universities | |
| 9. | Course Relationship to Program(s). | |
| a. | Is this course part of a proposed new program? | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |
| | If YES, name the proposed new program: _____ | |
| b. | Will this course be a new requirement ⁵ for ANY program? | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |
| | If YES ⁵ , list affected programs: _____ | |
| 10. | Information to be Placed on Syllabus. | |
| a. | Is the course 400G or 500? | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |
| | If YES, the <i>differentiation for undergraduate and graduate students must be included</i> in the information required in 10.b . You must include: (i) identification of additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See <i>SR 3.1.4.</i>) | |
| b. | <input checked="" type="checkbox"/> The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from 10.a above) are attached. | |

⁵ In order to change a program, a program change form must also be submitted.

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Signature Routing Log

General Information:

Course Prefix and Number: BME 790

Proposal Contact Person Name: David Puleo Phone: 7-2405 Email: puleo@uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

| Reviewing Group | Date Approved | Contact Person (name/phone/email) | Signature |
|--------------------|----------------|--------------------------------------|--------------------|
| CBME faculty | 2/1/10 | David Puleo / 7-2405 / puleo@uky.edu | <i>David Puleo</i> |
| <i>Grad School</i> | <i>2/17/10</i> | / / | <i>Blackwell</i> |
| | | / / | |
| | | / / | |
| | | / / | |

External-to-College Approvals:

| Council | Date Approved | Signature | Approval of Revision ⁶ |
|------------------------------|---------------|----------------------------|-----------------------------------|
| Undergraduate Council | | | |
| Graduate Council | | | |
| Health Care Colleges Council | | | |
| Senate Council Approval | | University Senate Approval | |

Comments:

⁶ Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

BME 790
Research in Biomedical Engineering
Fall 2010

Supervisor: *variable, depending on student*

Meetings: TBD
Wenner-Gren Research Laboratory

Contact Information: *TBD*

Course description: Graduate research in any area of biomedical engineering, subject to approval of the director of graduate studies.

Course Objectives:

1. Expose students to current research in biomedical engineering.
2. Provide students with opportunity to perform independent research.
3. Give students practice preparing written reports and oral presentations.

Semester Tasks:

1. Perform a literature search in a given research area.
2. Perform independent research as part of a research group.
3. Prepare and present a written and/or oral presentation describing the project and research results.

Assessment Tools:

1. Regular meetings with supervisor to assess outcomes 1 and 2.
2. Oral and written presentations to assess outcomes 1-3.

Learning Outcomes:

1. Ability to successfully design research projects.
2. Ability to prepare high quality written abstracts and drafts of poster or oral presentations based on the research.
3. Ability to answer questions and address challenges on the topic, methods, results, and implications of the research.

Grading Scale: A = presentation or abstract accepted at a national conference, or research at a level likely to produce such presentations in the near future
B = excellent presentation of material at a local fair or conference
C = acceptable oral and written presentations, as deemed by supervising faculty
E = insufficient performance