# Biomedical Engineering Undergraduate Research Form

## Engineering or Science Elective Credit

**FOR THE STUDENT:** Please fill out this side of the form.

### Research Topic: _____________________________________________________

<table>
<thead>
<tr>
<th>Biomedical Engineering 199</th>
<th>CRN</th>
<th>SE Units</th>
<th>EE Units</th>
<th>2 Quarters Offered</th>
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Estimate average student/faculty contact (hours/week) __________

Estimate average student research effort (hours/week) __________

### Course Plan:

**Part I: The Research Proposal**
- Complete both sides of the BIM 199 form.
- Attach 1-2 page Research Proposal describing the background, aims, methods, and anticipated results of your proposed work. Include a statement of the significance of the work (why it is important to study).
- Obtain PI’s signature.
- Submit to UG advisor.
- Obtain CRN from UG advisor for Quarter 1 and 2, and register for 2 units each quarter.

*Until Part II is successfully completed, this research will count as lab credit only.*

**Part II: The Presented Results**

At the end of the stated 2 quarters, the results must be presented as a 10-page double-spaced paper.

Obtain copy of BIM 199 form from UG advisor:
- Obtain PI’s signature on Part II as approval of work.
- Resubmit BIM 199 form with 10-page paper to UG Advisor for UG Committee Chair’s approval.

*Once UG Committee Chair’s approval is obtained, then 4 units of lab credit will be counted towards Engineering or Science elective.*

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**Student:** ___________________________  I.D. # ___________________________  **Major:** ___________________________

**BIM 199 engineering elective units already completed (quarter and units):** ___________________________

**Total number of units completed to date:** (84 units required to take 199 course for degree credit) ___________________________

**Other special study courses this quarter:**  **Department:** ___________________________  **Units:** ___________

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The limitation on special study courses (99, 194H and 199) is 5 units per term with the exception of courses approved as part of the Independent Study Program. For 199, engineering or science elective units are required for 2 units/quarter for a total of 4 units maximum.
FOR THE INSTRUCTOR/PI: Please fill out this side of the form.

Instructor’s Name: _______________________________________________________

Please select either Engineering or Science elective credit and check the appropriate boxes.

ENGINEERING ELECTIVE CREDIT ______ OR SCIENCE ELECTIVE CREDIT ______

To be considered for **Engineering Elective** credit, the completed report must demonstrate all of the following:

☐ A clear statement of engineering deliverables or engineering design objectives.
☐ An overview of existing engineering solutions in the field.
☐ Evidence of testing/validation and quantitative analysis of results.
☐ A clear statement of the impact of the completed work on society.

Describe the engineering content of the project below.

To be considered for **Science Elective** credit, the completed report must demonstrate all of the following:

☐ An overview of the scientific background underlying the project with appropriate literature citations.
☐ A clearly stated, testable hypothesis.
☐ Evidence of ability to design, analyze, and interpret the results of experiments.
☐ A clear statement of conclusions and their relation to the field at large.

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**Part I**

I certify that I have reviewed the attached Research Proposal and this project is suitable as 4 units of (check one):

Engineering elective _____

Science elective _____

Instructor’s Signature Date

BME Undergraduate Committee Chair’s Signature Date

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**Part II**

I certify that the completed research as presented in the attached 10-page paper is suitable for elective credit as described in the Engineering & Science Elective sections above.

Instructor’s Signature Date

BME Undergraduate Committee Chair’s Signature Date