

Biomedical Engineering Undergraduate Research Form

Engineering or Science Elective Credit

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

Research Topic: _____

	CRN	SE Units	EE Units	2 Quarters Offered
Biomedical Engineering 199	_____	_____	_____	_____ 20 _____

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.

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: _____

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.

Instructor's Name: _____

ENGINEERING ELECTIVE CREDIT _____ OR SCIENCE ELECTIVE CREDIT _____

- ☐ 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.

- ☐ 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.

Part I	Part II
<p>I certify that I have reviewed the attached Research Proposal and this project is suitable as 4 units of (check one):</p> <p>Engineering elective _____</p> <p>Science elective _____</p> <p>_____</p> <p>Instructor's Signature Date</p> <p>_____</p> <p>BME Undergraduate Committee Chair's Signature Date</p>	<p>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.</p> <p>_____</p> <p>Instructor's Signature Date</p> <p>_____</p> <p>BME Undergraduate Committee Chair's Signature Date</p>