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

Research Topic: _____________________________________________________

Biomedical Engineering 192

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<tr>
<th>CRN</th>
<th>SE Units</th>
<th>EE Units</th>
<th>Quarter and Year Offered</th>
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<td>20</td>
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Up to 12 units allowed for up to 36 hours/week of work. 1 unit = 3 hours of work. For engineering elective units, total of 4 units maximum.

Course Plan:

Part I: The Research Proposal

- Complete both sides of the BIM 192 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 Supervisor’s signature.
- Submit to UG advisor for review by UG Committee Chair.
- Once approved, obtain CRN from UG advisor and register for 4 units of EE credit.

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

Part II: The Presented Results (For engineering elective credit only)

At the end of the quarter:

- Supervisor must send email to UG advisor (rchristian@ucdavis.edu) with student’s name, dates of internship, hours worked per week, detailed explanation of work performed and grade (P/NP).
- The results must be presented in one of the following formats:
  a) 30-minute formal PowerPoint presentation at conference or lab meeting (not including questions).
  b) 10-page double-spaced paper.
  c) 15-minute formal PowerPoint presentation or conference-style poster presentation (e.g. URC) and 5-page paper.
- Obtain copy of BIM 192 form from UG advisor.
- Obtain Supervisor’s 2nd signature as approval of work.
- Resubmit BIM 192 form with attached work to UG Advisor for UG Committee approval.

Once UG Committee approval is obtained, then 4 units of internship credit will be counted towards Engineering or Science elective.

Student: __________________________________ I.D. # _____________________ Major: _______________

Total number of units completed to date: (84 units required to take 192 course for degree credit) _________________________

BIM 192 engineering elective units already completed (quarter and units) _______________________________

The limitation on special study courses (99, 192, 194H, and 199) is 5 units per term with the exception of courses approved as part of the Independent Study Program.
FOR THE SUPERVISOR: Please fill out this side of the form.

Supervisor’s Name: ___________________________  Supervisor’s Email: ________________________________

Name of Company: ____________________________

Dates Worked: _____________________________  Hours worked per week: _____________________________

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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<tr>
<th>Part I</th>
<th>Part II</th>
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| 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 ______ |

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I certify that one of the following was completed at C- or better quality for 4 units of upper division engineering/science elective credit.

- ☐ 30-minute Powerpoint (not including questions)
- ☐ 10-page double-spaced paper
- ☐ 15-minute Powerpoint or poster presentation, and 5-page double-spaced paper

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