

## Permission to Use Research as Second Upper Level Laboratory Course

In particular cases, the BSCI major will allow students to substitute two semesters of departmental research courses (e.g. BSCI379G, BSCI389, BSCI399) for the requirement of a second upper level laboratory course. Students eligible for this substitution should be already registered for their first semester of research with a faculty member. The faculty member will sign the form below agreeing that the level of research is sufficient such that they agree to register the student for the subsequent semester of research credits, and that successful completion of that additional semester will constitute a research experience that satisfies the learning objectives below. In order that this second semester is recognized as counting for a lab course, the students will register for the **L** section of the corresponding departmental research course:

<u>1<sup>st</sup> semester</u>	<u>2<sup>nd</sup> semester lab credit</u>	H (Departmental Honors) versions
BSCI379G (CBMG)	<b>BSCI379L</b>	BSCI379H, BSCI389H and BSCI399H
BSCI389 (ENTM)	<b>BSCI389L</b>	will automatically count for a 2 <sup>nd</sup> lab.
BSCI399 (BIOL)	<b>BSCI399L</b>	No form or L version is required

Student Name: \_\_\_\_\_

Student UID: \_\_\_\_\_

BSCI specialization of student: \_\_\_\_\_

Research course: BSCI379L BSCI389L BSCI399L section: \_\_\_\_\_ # of Credits \_\_\_\_\_  
Check one same as the regular research course

Faculty name: \_\_\_\_\_

Faculty signature: \_\_\_\_\_

Research experiences awarded for upper level lab credit should address the following learning goals.

- Understand, communicate, and critique existing scientific literature on a particular topic
- Propose and communicate a research hypothesis that emerges from an understanding of the research literature.
- Carry out a well defined study or part of a study – either one proposed by the student or the research mentor- related to the scientific literature that has been mastered.
  - Master the technical, conceptual, and quantitative aspects of the project.
  - Analyze some aspect of the resulting data.
  - Communicate the work either orally in a presentation and / or in a written paper.

Note that these research course only count for credits in the enrichment category of BSCI specializations, or as 3 credits in the General Biology specialization

A total of 4 credits in the departmental research courses in the same section is required for the substitution for a laboratory course.

After the faculty signs the form, bring it to the departmental office corresponding to the course:

BSCI379L Cell Biology & Molecular Genetics Department 1109 Microbiology Building

BSCI389L Entomology Department 3142 Plant Sciences Building

BSCI399L Biology Department 2227 Bio-Psyc Building