

## BIOM 495 (Independent Study)/BIOM 476 (Clinical Practicum)

This form must be completed by the student and signatures obtained prior to registering for the course.

Name:

CSUID:

Email:

Phone:

Date submitted (please allow 3 weeks to process; decision must be made 1 week prior to first day of class):

Biomedical Engineering Dual Degree student with CBE CpE EE EE (L&O) MECH

Biomedical Engineering Minor student

### BIOM 495/476 Student Information

- A maximum of 3 BIOM 495 and BIOM 476 credits may be used to fulfill BME technical elective requirement.
- BIOM 495 is designed for on-campus research and requires a CSU faculty adviser.
- BIOM 476 is designed for off-campus experiences with a clinical/professional emphasis and requires a CSU faculty adviser.
- This may not replace any required course in the curriculum.
- There must be regular meetings with the instructor throughout the semester.
- Grading is Instructor Option – S/U or Traditional (A-F).
- Contact hours per credit hour requirements:
  - 1cr = 45 – 75 contact hours/semester
  - 2cr = 90 – 120 contact hours/semester
  - 3cr = 135 – 165 contact hours/semester

Instructor Name: \_\_\_\_\_

Title of Independent Study: \_\_\_\_\_

No. of Credits: \_\_\_\_\_ Semester and Year: \_\_\_\_\_

Are you seeking to satisfy BME Technical Elective Credits through this independent study? Yes No

Please list below: BIOM 495/476 study plan, evaluation method, system of grading (Discuss/confirm with your instructor):

### Practicum/Independent Study Request: Learning Objectives (LOs)

Resource on how to write Learning Objectives: <https://peer.asee.org/using-learning-objectives-for-course-design-and-curriculum-improvement>

Please work with your instructor/supervisor to list your learning objectives and related information in the table below. Use wording that non-engineers can understand. Your objectives should be clear, concise, and consistent with the activities, responsibilities and expectations described in this packet. Learning objective sentences typically are statements that start with “Student will be able to (insert action verb) to (describe outcome).” Typically, there will be at least one learning objective per credit hour.

Any request to change LOs must be submitted to your academic advisor as soon as the need for a change is known and must be approved by the BME Undergraduate Program Director. Please allow two weeks for full review. Requests for LO changes after 50% of the required hours are worked are typically not approved.

Add additional rows to this table if you have more learning objectives.

<b>Learning Objective (LO)</b> – this is the “goal” with some kind of measurable outcome.*	<b>What project activities, expectations, and/or responsibilities are planned to support you achieving this LO?</b>	<b>How will achievement of this LO be assessed and who will assess it?</b> Be sure to include <u>what</u> will be assessed or measured, <u>who</u> will assess it, and <u>how</u> they will know how well you did it.
<i>Example: Improve exoskeleton control software to accept position sensor data. (NOTE: Delete this example before submitting.)</i>	<ul style="list-style-type: none"> <li>• Access and assess control code from former team</li> <li>• Adjust coding to work with new position sensors for the exoskeleton</li> </ul>	<i>Compare exoskeleton’s actual position to desired position before and after program modifications have been made. Results will be presented in the final written report and evaluated by the supervisor.</i>

**Signatures below attest that**

- This project is not part of another class or independent study (e.g. if CBE/MECH/EE/CpE Independent study will be taken, this is a separate project and is in a different lab to ensure breadth of academic rigor is maintained in the dual degree program)
- BIOM 495/476 credit may not double-count for partner major electives
- A maximum of 3 credits of BIOM 495/476 may count as BME Technical Elective credits

**APPROVED BY:**

\_\_\_\_\_  
Signature of Student

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Instructor

\_\_\_\_\_  
Date

Distribution:

- Student
- Instructor
- Adviser/file