

**CWU Physics Department**  
**Undergraduate Research Plan and Summary Record**

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

CWU ID: \_\_\_\_\_

Physics Academic Advisor: \_\_\_\_\_

(Instructions: Obtain Mentor/Instructor initials *prior to beginning* the component;  
obtain Mentor/Instructor signature/date *upon completion* of the component)

**Initial Research Component (component and tracks described on back of form):**

Selected Track:

Full Independent Research

Research-Intensive Class

Summer Experience (Attach  
brief summary of the summer  
experience)

Project (Attach brief summary of  
the completed PHYS 495 class)

Class: \_\_\_\_\_

Academic Term in which the component will be completed: \_\_\_\_\_

CWU Faculty Mentor or Class Instructor for the component: \_\_\_\_\_ Initials: \_\_\_\_\_

Dept. Chair signature/date (required *prior to beginning* the Summer Experience Track):

\_\_\_\_\_

Signature/Date of CWU Faculty Mentor or Class Instructor for the component:

\_\_\_\_\_

**Culminating Component (component described on back of form):**

Academic Term in which the PHYS 495 class will be completed: \_\_\_\_\_

CWU Faculty Mentor or Class Instructor for PHYS 495 class: \_\_\_\_\_ Initials: \_\_\_\_\_

Signature/Date of CWU Faculty Mentor for the component:

\_\_\_\_\_

Venue/Date of Poster or Presentation:

\_\_\_\_\_

(Attach poster or presentation abstract)

Title of Written Report or Proposal:

\_\_\_\_\_

(Attach report or proposal abstract)

**Initial Research Component (select one track):**

<p style="text-align: center;"><b>Full Independent Research Project Track</b></p> <p><i>Must be arranged <u>in advance</u> with a faculty mentor from the CWU Physics Department.</i></p> <ul style="list-style-type: none"> <li>• 2 credits of PHYS 495 taken during academic year with faculty mentor.</li> <li>• May be an independent research project or independent study of a physics subject not covered in the CWU physics curriculum.</li> <li>• Must be started <i>before</i> winter quarter of final year. Can begin as early as sophomore year with advisor and mentor approval.</li> </ul>	<p style="text-align: center;"><b>Research-Intensive Class Track</b></p> <p><i>Research-intensive class instructor <b>MUST</b> be informed that you have selected this track during the first week of the term in which you are taking the class.</i></p> <ul style="list-style-type: none"> <li>• At least 2 credits of a department-approved research-intensive class.</li> <li>• Students <i>must</i> complete research-intensive class <i>before</i> winter quarter of final year.</li> <li>• Students have the option of continuing a project based on course content, with advisor and course instructor approval, but such continuation is neither required nor assured.</li> </ul>	<p style="text-align: center;"><b>Summer Research/Internship Experience Track</b></p> <p><i>Must be arranged and coordinated <u>in advance</u> with a faculty mentor from the CWU Physics Department (<u>even if the experience is offsite</u>), and approved by the physics department chair.</i></p> <ul style="list-style-type: none"> <li>• Students will complete a research experience or internship over the summer at CWU or offsite <i>before</i> their final year.</li> <li>• Must be in a technical field.</li> <li>• Must consist of at least 100 hours of mentored/supervised research/experience.</li> </ul>
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**Culminating Research Component:**

<p><b>PHYS 495</b></p> <ul style="list-style-type: none"> <li>• 2 credits of PHYS 495 taken during academic year, arranged in advance with a CWU faculty mentor, and following completion of the initial research component.</li> </ul>	
<p><b>Final Products</b></p>	
<p><b>Presentation</b></p> <p>Poster or presentation to an external audience at the culmination of the project: external conference, SOURCE, department presentation.</p>	<p><b>Technical Report or Project Proposal</b></p> <p>Written document describing a subject of study, a proposed investigation, and/or the results of a project to be assessed by the faculty mentor.</p>