

## WH.490 Directed Research

### 6-12 credits.

Course credit is given for a research project conducted under the supervision of a WHOI scientist or engineer. The student works with the advisor to create a written proposal for the research. A written report following the format of a scientific manuscript is required, and the results presented orally to the advisor and other WHOI scientists. The research is graded according to an evaluation rubric which includes the methodology, data notebook, data presentation and analysis, and the final paper.

### SAW Research Project Evaluation

<b>Preparations for research</b>		
<b>Background &amp; Experimental Design</b>	Ability to search for literature Adequate reference list Clarity of experimental design (appropriate experiment, understanding of controls and statistics)	Comments:
<b>Development of technical skills</b>	Demonstrates the skills necessary to carry out the research Development of appropriate protocol using skills	Comments:
<b>Doing the research</b>		
<b>Lab Notebook</b>	Thoroughness in recording data, observations, or literature information Organization	Comments:
<b>Initiative</b>	Able to work independently Enthusiasm and curiosity Dedication to a research schedule and protocols	Comments:
<b>Time Spent on Project</b>	WHOI expects a minimum of 3 hours of effort per week on the research project for each hour of undergraduate credit. Minimum 6 credit hours of research.	Comments:
<b>Presenting the research</b>		
<b>Research Paper</b>	Follows appropriate format for a scientific paper or research proposal. Writing ability (grammar & spelling). Appropriate citations and literature cited section	Comments:

(modified from Clayton State University, BIO3224)