Maui Community College Course Outline

1.	Alpha and Number	Oceanography 293v OCN 293v
	Course Title	Ocean Internships and Research
	Credits	1-3
	Date of Outline	February 2005
2.	Course Description	With faculty guidance, students design and carry out marine-related internships, practica, research projects, or field experiences on or off campus. May be repeated. This course does not fulfill the Natural Science core.
3.	Contact Hours/Type	1-3 Lecture and/or laboratory
4.	Prerequisites	Enrollment in Certificate of Competence - Marine Naturalist I or II or the Marine Option Program
	Corequisites	
	Recommended Preparation	

Received March 2004

5. General Course Objectives

Oceanography 293v is designed to get students out in the field for practical experience in marine education. A research project or internship is agreed upon by the instructor, student and mentor (if applicable).

6. Student Learning Outcomes

For assessment purposes, these are linked to #7. Recommended Course Content.

On successful completion of this course, students will be able to

- a. present a written or oral report on research or internship experience;
- b. describe how interns support the objectives of a marine related agency or program (for internships);
- c. demonstrate skills and competencies for work within marine related agencies(for internships);
- d. design and carry out an experiment to test a hypothesis about a marine related question (for research projects);
- e. describe how they successfully achieved their learning outcomes;

7. Recommended Course Content and Approximate Time Spent on Each Topic Linked to #6. Student Learning Outcomes.

Content and time spent varies and may include marine-related topics being presented by local or visiting experts in the field. Participation may involve attending lectures, seminars, or workshops; or doing service-learning, or internships; or a combination of these. (b,c,e)

For research projects, students will design and carry out research for a marine related hypothesis. (d)

Present a written or oral report on research or internship experience. (a)

8. Text and Materials, Reference Materials, Auxiliary Materials and Content

Text and materials will vary depending on the internship or research project and may involve a variety of textbooks, references, articles, brochures, videos, web sites, and other appropriate sources of information. A large variety of books and videos are available for reference in the Biology office, Marine Option Program office, in the library at MCC and at various marine agencies.

Content will vary depending on the individual internship or research project.

9. Recommended Course Requirements and Evaluation

Course requirements will vary depending on the type of internship research project. Evaluation will be based on goals, objectives, and/or requirements of the student's specific program of study, and will be based on the satisfactory completion of these. Evaluation will be made by both the instructor and mentor, where appropriate.

10. Methods of Instruction

Instructional methods will vary with instructors. Specific methods will be at the discretion of the instructor teaching the course and may include, but are not limited to

- a. lectures
- b. Discussions
- c. Forums
- d. Conferences
- e. Demonstrations
- f. Workshops
- g. Slides
- h. Video
- i. web sites
- i. CD-ROMS
- k. Research
- l. service-learning
- m. laboratory work
- n. field activities
- o. group work
- p. reports
- q. field notes
- r. observations
- s. projects
- t. student discussions
- u. student presentations

imesAssessment of Intended Student Learning Outcomes Standards

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	OCN	OCN OCN	OCN	OCN OCN OCN	OCN					
Standard 1 - Written Communication	5	3	1	1010	267					
Outcome 1.1 - Use writing to discover and articulate ideas.	1	2	0	N	2					
Outcome 1.2 - Identify and analyze the audience and purpose for any intended communication.	0	2	0	2	N			ì		
Outcome 1.3 - Choose language, style, and organization appropriate to particular purposes and audiences.	0	N	0	Ν	Ν					
sources appropriately.	0	ω	0	ω	З		 			
hypothesis, or other appropriate statement.	0	ယ	0	ω	ω					
Oitomo 46 Danie										
concisely with appropriate content.	0	N	0	N	N					
Oideana 47 Daniel Land						<u> </u>				
conventions of writing, including grammar, spelling, and mechanics.	0	2	0	2	2					
Outrome 18 - Demonstrate professional in register and										
editing.	0	ω	0	N	2					
Outcome 1.9 - Develop a personal voice in written						<u> </u>				
communication.										

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Standard 2 - Quantitative Reasoning							
	OCN	OCN	OCN OCN OCN OCN OCN	OCN	OCN		
	<u>6</u> 2	101	140 191v 293	191v	293		
Outcome 2.1 - Apply numeric, graphic, and symbolic skills and other forms of quantitative reasoning accurately			·				
and appropriately.	0	_	2	N	2		
Outcome 2.2 - Demonstrate mastery of mathematical concepts, skills, and applications, using technology when appropriate.	0	0	0	0	0		
Outcome 2.3 - Communicate clearly and concisely the methods and results of quantitative problem solving.	0	0	0	0	0		
Outcome 2.4 - Formulate and test hypotheses using numerical experimentation.	0	0	0	-			
Outcome 2.5 - Define quantitative issues and problems, gather relevant information, analyze that information, and present results.	0	0	0	2	2		
Outcome 2.6 - Assess the validity of statistical conclusions.	0	0	0	2	2		

Standard 3 - Information Retrieval and Technology

3									
	OCN	OCN	OCN OCN OCN	OCN	OCN				
	64	101	140	140 191v 293	293				
Outcome 3.1 - Use print and electronic information technology ethically and responsibly.	0	2	0	2	2				
Outcome 3.2 - Demonstrate knowledge of basic vocabulary, concepts, and operations of information retrieval and technology.	0	_							
Outcome 3.3 - Recognize, identify, and define an information need.	0	2	0	2	2				
Outcome 3.4 - Access and retrieve information through print and electronic media, evaluating the accuracy and authenticity of that information.	_	2	1	2	2				
Outcome 3.5 - Create, manage, organize, and communicate information through electronic media.	0	0	0	0	0				
Outcome 3.6 - Recognize changing technologies and make informed choices about their appropriateness and use.	<u> </u>	2	0	2	2				

Standard 4 - Oral Communication									
	OCN	OCN	ocn ocn ocn ocn ocn	OCN	OCN				
	64	101	140	140 191v 293	293				
Outcome 4.1 - Identify and analyze the audience and)	ა)	٠.	7				
Outcome 4.2 - Gather, evaluate, select, and organize information for the communication.	0	2	0	2	2				
Outcome 4.3 - Use language, techniques, and strategies appropriate to the audience and occasion.	0	2	0	-1	1				
Outcome 4.4 - Speak clearly and confidently, using the voice, volume, tone, and articulation appropriate to the audience and occasion.	0	2	0	>	-				
Outcome 4.5 - Summarize, analyze, and evaluate oral communications and ask coherent questions as needed.	0	0	0	0	0				
Outcome 4.6 - Use competent oral expression to initiate and sustain discussions.	0	_	0		_				

Standard 5 - Critical Thinking									
	OCN 64	0CN	OCN OCN		293 NOO			-	
Outcome 5.1 - Identify and state problems, issues, arguments, and questions contained in a body of information.	0	သ	ω	2			***************************************		
Outcome 5.2 - Identify and analyze assumptions and									
underlying points of view relating to an issue or problem.	0			1					
Outcome 5.3 - Formulate research questions that require descriptive and explanatory analyses.	0	3	0	ဒ	ω				
Outcome 5.4 - Recognize and understand multiple modes of inquiry, including investigative methods based on observation and analysis.	0	အ	0	သ	ω				
Outcome 5.5 - Evaluate a problem, distinguishing between relevant and irrelevant facts, opinions, assumptions, issues, values, and biases through the use of appropriate evidence.	0	2	0	3	3				
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Outcome 5.6 - Apply problem-solving techniques and skills, including the rules of logic and logical sequence.	0	2	2	2	2				
Outcome 5.7 - Synthesize inform from various sources, drawing appropriate conclusions.	0	2		2	2				
Outcome 5.8 - Communicate clearly and concisely the methods and results of logical reasonong.	0	2	0	2	2				
Outcome 5.9 - Reflect upon and evaluate their thought processes, value system, and world views in comparison to those of others.	0	0	0	0	0				
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