

Maui Community College
Course Outline

1. Alpha and Number ICS 298

 Course Title Special Projects in Computer Science

 Credits Four (4)

 Date of Outline February 2, 2004

2. Course Description Covers current topics in computer science.
 Introduces students to topics of current interest and
 relevant to their studies. Includes both theoretical
 and hands-on experience in cutting edge hardware,
 software, networking, operating systems,
 applications, and techniques.

3. Contact Hours/Type Six(6) hours lecture/laboratory

4. Prerequisites ICS 252 and 275 with at least a C, or consent

 Corequisites Determined by topic

 Recommended Preparation Determined by topic

Received March 2004
Under Amnesty Program
SLOs Updated & Linked To Content
COWIQ Grid Prepared

Approved by _____ Date _____

5. General Course Objectives
 - a. Increase student's familiarity and experience with current topics and experiences in the computer industry.
 - b. Increase student's ability to work with and research current trends in the field.
 - c. Develop and augment student's English reading, writing, and comprehension skills.

6. Specific Course Objectives, Competencies, and Student Learning Outcomes
 On successful completion of this course the student will be able to:
 - a. Reinforce skills learned in ICS-111 and other subjects by applying them to current topics and trends in the industry.
 - b. Augment the student's skills in researching and working in an environment of developing techniques.
 - c. introduced to a relevant, topical course of study to better enable him/her to understand that technology is dynamic and requires an ongoing commitment to study.

7. Recommended Course Content and Approximate Time Spent on Each Topic
 - a. Written or oral examinations
 - b. In-class exercises
 - c. Homework assignments
 - d. Quizzes
 - e. Class programming project (as appropriate to topic)
 - f. Projects or research (written reports and/or oral class presentations)

8. Text and Materials, Reference Materials, Auxiliary Materials and Content
 An appropriate text(s) and materials will be chosen at the time the course is to be offered from those currently available in the field. A representative example is:

9. Recommended Course Requirements and Evaluation

Projects, utilizing electronic workstations and test equipment	50%
Comprehensive written reports	50%

10. Methods of Instruction

Written or oral examinations
 Practical examinations
 Lab experiments and reports
 In-class exercises
 Homework assignments
 Quizzes
 Projects or research (written reports an/or oral class presentations)
 Attendance and/or class participation
 Computer assisted instruction

Assessment of Intended Student Learning Outcomes Standards

	ICS 111	ICS 110	ICS 211	ICS 251	ICS 252	ICS 258	ICS 298	ICS	ICS	ICS 290V
Standard 1 - Written Communication										
Outcome 1.1- Use writing to discover and articulate ideas.	3	1	3	1	1	1	1			
Outcome 1.2- Identify and analyze the audience and purpose for any intended communication.	1	1	1	1	1	1	1			
Outcome 1.3- Choose language, style, and organization appropriate to particular purposes and audiences.	2	0	2	0	0	0	0			
Outcome 1.4- Gather information and document sources appropriately.	1	1	1	1	1	2	3			
Outcome 1.5- Express a main idea as a thesis, hypothesis, or other appropriate statement.	0	0	0	0	0	0	0			
Outcome 1.6- Develop a main idea clearly and concisely with appropriate content.	1	0	1	0	0	0	0			
Outcome 1.7- Demonstrate a mastery of the conventions of writing, including grammar, spelling, and mechanics.	2	1	2	1	1	2	2			
Outcome 1.8- Demonstrate proficiency in revision and editing.	0	0	0	0	0	0	0			
Outcome 1.9- Develop a personal voice in written communication.	0	0	0	0	0	0	0			

Standard 2 - Quantitative Reasoning

	ICS 111	ICS 110	ICS 211	ICS 251	ICS 252	ICS 258	ICS 298	ICS	ICS	ICS 290V
Outcome 2.1- Apply numeric, graphic, and symbolic skills and other forms of quantitative reasoning accurately and appropriately.	3	3	3	3	3	3	3			
Outcome 2.2- Demonstrate mastery of mathematical concepts, skills, and applications, using technology when appropriate.	3	2	3	1	1	3	2			
Outcome 2.3- Communicate clearly and concisely the methods and results of quantitative problem solving.	3	2	3	2	2	3	2			
Outcome 2.4- Formulate and test hypotheses using numerical experimentation.	3	1	3	1	1	3	3			
Outcome 2.5- Define quantitative issues and problems, gather relevant information, analyze that information, and present results.	3	1	3	1	1	3	2			
Outcome 2.6- Assess the validity of statistical conclusions.	1	0	1	0	0	3	2			

Standard 3 - Information Retrieval and Technology

	ICS 111	ICS 110	ICS 211	ICS 251	ICS 252	ICS 258	ICS 298	ICS	ICS	ICS
Outcome 3.1- Use print and electronic information technology ethically and responsibly.	2	2	2	2	2	3	2			
Outcome 3.2- Demonstrate knowledge of basic vocabulary, concepts, and operations of information retrieval and technology.	1	1	1	1	1	1	1			
Outcome 3.3- Recognize, identify, and define an information need.	1	1	1	1	1	3	2			
Outcome 3.4- Access and retrieve information through print and electronic media, evaluating the accuracy and authenticity of that information.	1	2	1	1	1	1	1			
Outcome 3.5- Create, manage, organize, and communicate information through electronic media.	2	1	2	2	2	2	2			
Outcome 3.6- Recognize changing technologies and make informed choices about their appropriateness and use.	3	1	3	3	3	3	3			

Standard 4 - Oral Communication

	ICS	ICS	ICS	ICS	ICS	ICS	ICS	ICS	ICS	ICS
	111	110	211	251	252	258	298			290V
Outcome 4.1- Identify and analyze the audience and purpose of any intended communication.	0	0	0	0	0	0	0			
Outcome 4.2- Gather, evaluate, select, and organize information for the communication.	0	0	0	0	0	0	0			
Outcome 4.3- Use language, techniques, and strategies appropriate to the audience and occasion.	0	0	0	0	0	0	0			
Outcome 4.4- Speak clearly and confidently, using the voice, volume, tone, and articulation appropriate to the audience and occasion.	0	0	0	0	0	0	0			
Outcome 4.5- Summarize, analyze, and evaluate oral communications and ask coherent questions as needed.	0	0	0	0	0	0	0			
Outcome 4.6- Use competent oral expression to initiate and sustain discussions.	0	0	0	0	0	0	0			

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Outcome 1.2- Identify and analyze the audience and purpose for any intended communication.	1	1	1	1	1	1	1			
Outcome 1.3- Choose language, style, and organization appropriate to particular purposes and audiences.	2	0	2	0	0	0	0			
Outcome 1.4- Gather information and document sources appropriately.	1	1	1	1	1	2	3			
Outcome 1.5- Express a main idea as a thesis, hypothesis, or other appropriate statement.	0	0	0	0	0	0	0			
Outcome 1.6- Develop a main idea clearly and concisely with appropriate content.	1	0	1	0	0	0	0			
Outcome 1.7- Demonstrate a mastery of the conventions of writing, including grammar, spelling, and mechanics.	2	1	2	1	1	2	2			
Outcome 1.8- Demonstrate proficiency in revision and editing.	0	0	0	0	0	0	0			
Outcome 1.9- Develop a personal voice in written communication.	0	0	0	0	0	0	0			

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