UNIVERSITY OF HAWAII COMMUNITY COLLEGES

PROPOSAL TO INITIATE, MODIFY OR DELETE A COURSE

1. TYPE OF ACTION
   A. Addition [ ] Regular [ ] Experimental [ ] Other (specify)  
   B. Deletion [ ]  
   C. Modification [ ] in credits [ ] in title [x] in number or alpha [ ] in prerequisites [x] Other (specify)  

2. NEW ALPHA, NUMBER AND TITLE  
ICS 113 Database Fundamentals  

3. CREDITS 3Lect.  

4. OLD ALPHA, NUMBER AND TITLE  
DP 113 Database Fundamentals  

5. CREDITS 2Lect./3Lab  

6. NEW CATALOG DESCRIPTION  
ICS 113 Database Fundamentals (3)  
This course examines file organization & the use of computer databases. It also examines the handling of information through its organization, management, & control. A substantial part of the course develops on understanding of the data processing building blocks: files, records, & fields. Techniques to report & maintain data are also covered. (3hrs. Lect.)  

7. PREREQUISITES  
Keyboarding/Typing skills recommended.  

8. STUDENT CONTACT HOURS PER WEEK  
Lecture 3 Lecture/Lab ____ Lab ____ Other (specify)  

9. PROPOSED DATE OF FIRST OFFERING  
Fall '94  

10. THIS COURSE [x] IS REQUIRED [ ] IS AN ELECTIVE FOR THE WCC PROGRAM/CORE (Please specify)  
[ ] CAN FULFILL electives for AS Degree in OAT REQUIREMENT (Please specify)  

11. THIS COURSE [ ] INCREASES [x] DECREASES [ ] MAKES NO CHANGE IN NUMBER OF CREDITS REQUIRED FOR THE PROGRAM/CORE  

12. SIMILAR COURSES OFFERED ELSE WHERE:  
   College(s):  
   Honolulu CC  
   Kapiolani CC  
   Alpha, Number, Title:  
   ICS 113 Database Fundamentals  

13. THIS COURSE IS  
[ ] ALREADY ARTICULATED with [ ] APPROPRIATE FOR ARTICULATION [x] NOT YET APPROPRIATE FOR ARTICULATION with  
(Provide details of existing or desired articulation (date, college(s), purposes, pre-major or major, etc.)  

14. REASON FOR INITIATING, MODIFYING OR DELETING COURSE OR OTHER PERTINENT COMMENT:  
This course is being modified to be consistent with the other community college's curriculum.  

REQUESTED BY:  
Department Chairperson  
10-5-93  

APPROVED BY:  
Curriculum Committee  
10-21-93  

Provost  
1-13-94  

CCCM #6100  
(Amended for WCC use Sept. 1991)
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<thead>
<tr>
<th>Level</th>
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<th>Dates</th>
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<tr>
<td>1. Subject Area (one or more instructors in the area)</td>
<td>[Signatures]</td>
<td>[Dates]</td>
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<td>2. Department</td>
<td>[Signature]</td>
<td>10-5-93</td>
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<tr>
<td>Was this course discussed in a dept. mtg.</td>
<td>Yes</td>
<td>9-28-93</td>
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<td>3. Division</td>
<td>[Signature]</td>
<td>10-7-93</td>
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<td>4. Curriculum Committee Review</td>
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<td>Reason:</td>
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<tr>
<td>Curriculum Committee Chairperson</td>
<td>10.9.93</td>
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WCC FORM FOR COURSE MODIFICATIONS

Course: DP 113 Database Fundamentals
Submitted by: Peggy Regentine
Date: October 13, 1993

1. What change is proposed in the course? Provide specific information comparing both the "new" and the "old" course.

Two changes are proposed.
A change in alpha from DP to ICS is proposed.
A change in the number of contact hours is proposed.

2. What is the rationale for the change?

The rationale for modifying the course is to make the course consistent with the other community college's curriculum.

3. Is the change substantive enough to require a change in course identification? If so, explain thoroughly.

No.

4. Is the course articulated with any 4-year program? If yes, give details of the agreement(s) and explain any impact the proposed modifications may have on articulation.

No.

5. Provide details of any additional staff, equipment, facilities, library/media material, faculty preparation and other financial considerations that would be required to implement this course modification. What has been done to provide for these additional costs? Who will teach the course? Is additional preparation needed?

No additional staff or materials will be needed.

6. Will this course modification result in any alterations in the numbering of hours required to attain a certificate or degree? If yes, provide details and justification for these alterations.

No change in credit hours will be made.

7. If the course is renumbered to 100 or above, does it meet the criteria for transfer level courses?

N/A.
WINDWARD COMMUNITY COLLEGE

COURSE: ICS 113 Database Fundamentals

CREDIT HOURS: 3

PREREQUISITES: Keyboarding or Typing Recommended


OTHER MATERIALS: dBASE III plus software and manuals will be located in the computer lab.

REQUIREMENTS: Attendance is mandatory. In order for students to complete the required assignments, students will need to attend lectures.

COURSE DESCRIPTION: This course examines file organization and the use of computer databases. It also examines the handling of information through its organization, management and control. A substantial part of the course develops an understanding of the data processing building blocks: files, records and fields. Techniques to report and maintain data are also covered. Students are introduced to programming in the dBASE language.

TOPICS TO BE COVERED:

1. Introduction to databases.
2. Sequential access vs. direct access file manipulation.
3. Hierarchical, network, and relational database systems.
4. Create, update, sort, and prepare reports with databases.
5. Programming with database languages.

COURSE OBJECTIVES:

Upon completion of this course, the student should be able to:

1. Demonstrate a working familiarity with the operating system of a microcomputer and its function.
2. Create and maintain databases.
3. Discuss the evolution of databases up to the present.
4. Discuss future applications of databases.
5. Describe sequential files, indexed files, and relative (or direct) files.
6. Define the role of a database management system.
7. Describe the various types of database systems.
INSTRUCTION:

The above objectives will be achieved through class lectures, assigned reading, periodical readings, and computer work.

COURSE REQUIREMENTS:

1. **COMPUTER PROJECTS** Students will be required to use the computer and the software package dBASE III plus to solve ten database problems. The assignments should produce the correct output and must be handed in on time. Most projects will require handing in hard copies of your work but at requested times you will be required to hand in a disk showing your work.

2. **TEST AND EXAMS** There will be one written test and a comprehensive final exam. The final will contain a written and hands-on section. Tests and exams will be based on class lectures, assigned readings, skills involved in the computer projects and assignments. Your final grade will be determined by projects, tests, attendance and final exam combined.

3. **ATTENDANCE** Class participation and attendance is required. Activities and assignments will be conducted in class and the students will be responsible for their completion.

4. **EVALUATION** The following represents the anticipated weight of various graded activities of the course. The assignment of points may vary slightly each semester but the following is typical:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
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<tbody>
<tr>
<td>Ten Projects</td>
<td>50</td>
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<tr>
<td>Attendance</td>
<td>50</td>
</tr>
<tr>
<td>Test</td>
<td>100</td>
</tr>
<tr>
<td>Final Exam</td>
<td>150</td>
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**TOTAL** 800 points

The letter grade for the semester will be assigned as follows:

- A 90% - 100% of total points possible
- B 80% - 89%
- C 70% - 79%
- D 60% - 69%
- F Below 60%