



Leeward Community College



Associate in Science in Info & Computer Science - Database Support Spec

STUDENT DATA:

NAME: ROADMAP'S DEGREE

SSN: 000-00-0000

**Credit Potential
Required Credit**

Expository Writing (ENG 100)

3.00

(Provides practice in producing substantial compositions at the college transfer level for courses across the curriculum. Engaging in research activities, students evaluate and integrate sources into their compositions. Following a recursive writing process, they analyze the rhetorical, conceptual, and stylistic demands of writing for various purposes and audiences. Students apply the principles of expository writing and produce compositions that have clear ideas, adequate support, logical organization, and correct sentence structure. Students become proficient language users, independent learners, and thoughtful members of an academic community.)

{DANTES Code = 11.07.00}

Technical Writing (ENG 225) [EN032A]

3.00

(Provides practice in creating, designing, and transmitting technical information so that specialists and layperson can understand it easily.)

{DANTES Code = 04.06.02}

Personal & Public Speech (SP 151)

3.00

(Introduction to the major elements of speech with activities for students to acquire competence in two-person, small group, and public situations. College credit by examination may apply.)

{DANTES Code = 04.10.00}

Pre-Cal. Elem. Functions or Math for Decisionmaking I (MATH 135, QM 121)

3.00

(College credit by examination may apply. Visit the LCC website for a description of these courses.)

{DANTES Code = 14.01.05}

Financial Accounting (ACC 201)

3.00

(Introduction to accounting and financial accounting theory including: Accounting as an information system; the accounting cycles; accounting for merchandising operations; financial statements and internal control; short-term liquid assets; inventories; current liabilities; payroll, and long-term assets. College credit by examination may apply.)

{DANTES Code = 03.01.00}

Principles of Microeconomics or Macroeconomics (ECON 130, 131)	3.00
(College credit by examination may apply. Visit the LCC website for a description of these courses.)	
{DANTES Code = 20.05.00}	
Computing Literacy and Applications (ICS 100) [CS001A]	3.00
(An introductory survey of computers and their role in the modern world. Emphasis is on computer terminology and hardware and software. Opportunities for "hands-on" experience using microcomputer applications software may include spreadsheets, word processing, graphics and database management systems.)	
{DANTES Code = 05.02.00}	
Database Fundamentals (ICS 113) [CS014A]	3.00
(This is an introduction to the concepts and theory of a database. The course covers file organization, information handling, management, and control via a database management system. A substantial part of the course involves the development of an understanding of data processing blocks: fields, records and files. Structured programming techniques are emphasized. Report generation techniques are also covered. The course includes hands-on use of microcomputers to provide the students with experience creating, implementing, loading and using a database.)	
{DANTES Code = 05.03.00}	
Introduction to Computer Science I (ICS 111) [CS011A]	3.00
(This is an introductory course in computer programming. Emphasis is on structured programming, problem solving, algorithm development, computer language coding, implementation, and debugging/testing.)	
{DANTES Code = 12.03.04}	
Intro to Phil: Morals & Society or Introduction to Logic (PHIL 101, 110)	3.00
(Visit the LCC website for a description of these courses.)	
Introduction to Programming in Visual Basic (ICS 135)	3.00
(Introduction to window-based programming using Visual Basic. Topics covered include the Visual Basic environment, user-interface design, data types, scope, control structures, data structures, files and graphics.)	
Introduction to Programming (ICS 130)	3.00
(Practical introduction to the theory of stored program digital computers. Students are taught flowcharting, documentation techniques and the use of a programming language to solve various scientific and business-oriented problems. The emphasis is on basic concepts and functional characteristics of a digital computer.)	
{DANTES Code = 05.02.01}	
Networking and Data Communication (ICS 184)	3.00
(Introduces students to networking theory and practice. Presents topics including communications concepts, local and wide area networks, distributed systems, and local area network design, installation, and administration. Module II covers the data link layer, the transport layer,	

the network layer and the other upper layers, which are normally combined in most protocols of the OSI model.)

Structured Database Programming (ICS 151Z) 3.00

(Introduction to programming in a database programming language. Application requirements are explained through a presentation of a set of data structures, or logical schema, for sample applications. Structured programming techniques and good programming style are emphasized. Students will develop complete menu-driven systems.)
{DANTES Code = 05.02.01}

Intro to Object-Oriented Programming C++ (ICS 250) 3.00

(This is an introductory course in object-oriented programming, designed for students with previous structured programming experience. It covers C++ syntax for standard input/output, arithmetic, conditional and iterative statements. It introduces the student to object-oriented design and implementation of classes, objects, functions, and methods. It also introduces the student to programming with graphical user interfaces.)

Advanced Database Programming (ICS 251) 3.00

(A second course in programming database applications with emphasis on structured programming techniques in a multi-platform environment. An introduction to an object-oriented programming language is included and students learn to transport and convert data between minicomputer and microcomputer platforms. Development of large program systems is required.)

Operating System (ICS 240) 3.00

(This course is an overview of operating systems. The concepts of microcomputer and multi-user operating systems are covered. The topics covered will include operating systems as a software interface with hardware, CPU memory and secondary storage, compilers, linkers and interpreters, single and multiuser systems, command languages, segmentation, paging and virtual memory, and operating systems in distributed and networked environments.)

Systems Analysis (ICS 270) [CS005A] 3.00

(A study of data processing systems and procedures including the advantages and disadvantages of different types of systems, forms design, controls, conversion techniques and facilities planning. Emphasis on various techniques and tools of Systems Analysis, such as interviewing, procedure analysis and flowcharting.)
{DANTES Code = 05.03.02}

Practicum in Information & Computer Science (ICS 293D) 3.00

(Visit the LCC website for a description of this course.)

Free Electives 3.00

(Recommended electives: other ICS or EE courses numbered 100 or above. College credit by examination may apply.)

Excess or Duplicate Credit

TOTAL 60.00 0.00

Thank you for requesting support from the U.S. Coast Guard Institute (CGI). Whereas we serve as an activity in support of your unit Educational Services Officer (ESO), you are encouraged to seek assistance from your local ESO in your academic endeavors. The following information is provided to help you understand what is presented in this degree plan:

This document is an UNOFFICIAL Degree Plan to provide you with a preliminary assessment of how your prior learning experiences might fit into the specified degree program for this academic institution. If you choose to pursue this degree option, you must present it to a college representative, who will review it for the following:

- o Accurate representation of the college's degree program requirements, including course numbers and titles, credit hours for each course, lower- and upper-level course requirements, and the total number of credits needed for the degree.
- o Appropriate assignment of ACE Guide-recommended credit at the lower or upper level for military service schools and occupations, CLEP, DSST, and other tests, transfer credit for courses from other colleges and universities, certification programs, etc.
- o Appropriate assignment of SOC Course Category Codes from the SOC Handbook Transferability Tables. The SOC Degree Program Handbooks can be obtained from the SOC web site at: www.soc.aascu.org should you wish to learn more about the course transfer guarantees among SOC network institutions.

IMPORTANT NOTE: When you are ready to seek admission into this degree program, please contact the USCG Institute at 1-405-954-7241. Your advisor will send the college or university an official U.S. Coast Guard Institute transcript, a copy of the degree plan, and a ready-for-signature SOC Student Agreement which, when signed by a college official, becomes a contract for degree completion committing the college or university to supporting you in your academic endeavors.

Credit for all courses you have taken must be reflected on official transcripts sent directly to this college from the administrative offices of the colleges you previously attended. This degree plan is often used for information purposes by college counselors pending receipt of the official transcripts from the source colleges.

This degree plan is not intended to compete with your local college or university. Keep in mind, you are allowed to transfer in a significant amount of the degree requirements to this institution. As such, credit from local colleges, college level examination programs, or advanced military training may be applied to this degree. You may also complete the courses necessary from this college either in residence (on campus or possibly on a military base at a campus extension in the Education Center) or through distance delivery of the courses. If you have questions, please contact the college counselor or your advisor listed at the bottom of this Degree Plan.

DEGREE PLAN LEGEND:

SH = Semester hours
VOC = Vocational, not relative to an academic degree
LL = Lower Level, i.e. courses at the Freshman/Sophomore level
UL = Upper Level, i.e. courses at the Junior/Senior level
GL = Graduate Level (sometimes recommended by ACE for very complex courses)
[#] such as [EN024A] or [EN024B] = SOC Course Category Codes*
{#} such as {DANTES Code = 01.02.03} = DANTES Academic Codes **

* SOC Course Category Codes: Service members Opportunity Colleges (SOC) is a consortium of over 1,600 accredited colleges and universities seeking to provide degree opportunities to the military. Over 170 of these institutions participate in network degree programs developed for the Army, Navy, Marine Corps, and Coast Guard. A SOC course category number beside a course from one of these institutions, such as [EN024A] or [EN024B] for English Composition, indicates that courses from other degree program institutions with the same code may be taken to satisfy the degree requirement. See the SOC Degree Programs Handbooks at <http://www.soc.aascu.org/>

** DANTES Academic Codes: The Defense Activity for Non-Traditional Education Support (DANTES) publishes the DANTES Independent Study Catalog (DISC) annually, which lists more than 6,000 courses from dozens of regionally accredited colleges and universities. Because this is a degree from a SOC affiliated college, the academic residency requirements are limited, thereby allowing students to transfer in a significant portion of the degree, as mentioned above. If the course you desire to take is not offered by this institution when you want to take it, consider the opportunities the courses in the DISC present. For more information, visit http://www.dantes.doded.mil/dantes_web/distancelearning/disc/front/cont.htm Keep in mind, you should always check with the counselor or academic advisor at this institution before enrolling in a course listed in the DISC to ensure it will be accepted in transfer toward this degree.

Leeward Community College General Information:

Leeward Community College is a comprehensive community college that can meet your needs - whether you are seeking an excellent general education and liberal arts transfer Program; industry-relevant employment preparation programs; a strong basic skills and developmental education program; or effective non-credit courses for personal enrichment, job preparation, or skills upgrading.

For more than 35 years, Leeward Community College has made teaching and learning the central focus of all that they do. Their motto is, "To help people learn." Their faculty and staff are dedicated to helping you, no matter what your academic goals may be. For some of you, your goal may be a career in education. Leeward Community College is proud to be the lead community college in the UH System to provide exciting pathways to careers in education.

If you are interested in preparation for immediate employment, Leeward Community College offers a variety of career and technical programs, taught by outstanding faculty, that lead to certificates or degrees. These programs include Information and Computer Science, Television Production, Accounting, Business Technology, Supervisory Management, Automotive Technology, Culinary Arts/Food Service, Digital Media, E-Commerce, and Human Services/ Substance Abuse Counseling. Talk with our

program faculty or our Job Placement staff about job opportunities in these and related fields.

Leeward Community College is a public community college in Pearl City, Hawaii, which offers lower-division undergraduate and vocational college courses. It is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges. It operates on the semester system, with courses beginning in August and January.

The average cost for tuition per course is around \$45.00 per credit hour resident and \$242.00 per credit hour for non- resident . (subject to change)

For more information regarding This degree, please contact:

Nancy H. Buchanan or Larry Andres
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Pearl City, HI 96782
(808) 455-0293 or 0233
E-mail: nbuchana@hawaii.edu or andresl@hawaii.edu
<http://www.hcc.hawaii.edu>

POLICY NOTES:

General Requirements:

- A minimum grade point average of 2.0.
- 45 semester hours nontraditional or transfer credit may be applied to this degree.
- A minimum of 12 hours of coursework for an Associates degree must be taken from LCC.
- A grade of "D" is accepted in transfer.
- All required ICS courses must be passed with a "C" or better in order to be applied to the degree.

Evaluation completed by: Charles Morrison

On: 05 June 2007