

ICS101 – Digital Tools for the Information World

3 Credits

CRN: 60020 - Distance Learning

INSTRUCTOR: Vanessa Cole
EMAIL: vanessa@hawaii.edu (*preferred method of contact*) Use your UH email address
OFFICE HOURS: See [course web site](#)
In addition to regular hours, appointments are available.
EFFECTIVE DATE: Summer 2012

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai'i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O'ahu's Ko'olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

Hands-on computer class with emphasis on producing professional level documents, spreadsheets, presentations, database, and web pages for problem solving. Includes concepts, terminology, and a contemporary operating system. (3 hr. lect).

Recommended Preparation: 1 yr. high school algebra or equivalent.

ABIT CERTIFICATE OF COMPETENCE

The Information Computer Science Certificate of Competence (CoC) in Applied Business and Information Technology (ABIT) is a competency based program designed for the novice or professional information worker. This certificate is appropriate for upgrading the Information skills of industry members or for administrative support occupations. ICS 101 Digital Tools for the Information World fulfills a requirement for this certificate along with ICS 115 Microcomputer Applications and ICS 214 Design for Web and Print. The competencies acquired in this CoC are to:

- Develop advanced skills in industry-standard computer programs
- Integrate Web technologies into business applications to modernize information technology skills
- Integrate design elements in publications and Web projects

STUDENT LEARNING OUTCOMES

1. Utilize the appropriate computer applications to produce professional-level documents, spreadsheets, presentations, databases, and web pages for effective communication (major content area).
 - a. Produce documents in a variety of formats.
 - b. Create, edit, and format electronic spreadsheets using formulas, functions, and charts.
 - c. Utilize a database with queries and reports that display required data.
 - d. Create and organize a variety of electronic slides using templates, background styles, graphics, photos, and animation effects.
 - e. Create web pages that contain hyperlinks and images that are suitable for publication.
2. Utilize operating system interfaces to manage computer resources effectively.
3. Extract and synthesize information from available Internet resources using intelligent search and discrimination.
4. Define, explain, and demonstrate proper computer terminology usage in areas such as hardware, software, and communications to effectively interact with other computer users and to prepare for higher-level computer courses.
5. Describe ethical issues involved in the use of computer technology.

COURSE TASKS AND GRADING

AREA	POINTS	Percentage of Total
SimNet Lessons	30	5%
Software Projects	270	45%
Topic Report	60	10%
Required Discussion Postings	30	5%
Mini Exams	120	20%
Final Exam	90	15%
GRAND TOTAL	600	

Grades for the course will be as follows:

- A 90-100% of possible points
- B 80-89% of possible points
- C 70-79% of possible points
- D 60-69% of possible points
- F 0-59% of possible points

Points are deducted for late assignments (10% per week). For summer session, assignments are not accepted more than ONE week late. All work must be turned in by the last day of instruction for the semester.

No *incompletes* or *N* grades will be given. You must take responsibility to complete the course or withdrawal. Unexpected extenuating circumstances will be reviewed for an exception.

ASSIGNMENT AND STUDENT LEARNING OUTCOMES ALIGNMENT

Student Learning Outcomes	Software Projects	SimNet Exercises	Topic Report	Required Discussions	Exams
Utilize the appropriate computer applications to produce professional-level documents, spreadsheets, presentations, databases, and web pages for effective communication (major content area).	✓	✓	✓		✓
Utilize operating system interfaces to manage computer resources effectively.	✓	✓			✓
Extract and synthesize information from available Internet resources using intelligent search and discrimination.			✓	✓	✓
Define, explain, and demonstrate proper computer terminology usage in areas such as hardware, software, and communications to effectively interact with other computer users and to prepare for higher-level computer courses.			✓	✓	✓
Describe ethical issues involved in the use of computer technology				✓	✓

COURSE CONTENT

Concepts	Skills
<p>1. Utilize the appropriate computer applications to produce professional-level documents, spreadsheets, presentations, databases, and web pages for effective communication (major content area).</p> <ol style="list-style-type: none"> a. Common Concepts <ol style="list-style-type: none"> 1) Editing. 2) Formatting. 3) Graphical objects. 4) Tools such as spell check. 5) Tables. b. Spreadsheets <ol style="list-style-type: none"> 1) Mathematical or financial analysis. 2) “What if” analysis. 3) Formulas and functions. 4) Charts. c. Word processing <ol style="list-style-type: none"> 1) Documents such as memos, letters, reports, résumés, newsletters. 2) Template documents. d. Database <ol style="list-style-type: none"> 1) Database structure. 2) Logical models with queries, forms, and reports. 3) Database integrity. e. Presentation <ol style="list-style-type: none"> 1) Slides, templates, background styles, graphics, photos. 2) Animation and transition effects. f. Web page design <ol style="list-style-type: none"> 1) HTML, hyperlinks, images. 2) Web publishing. g. Application integration such as: <ol style="list-style-type: none"> 1) Copy/cut-and-paste. 2) Object linking. 3) Embedding. <p>2. Utilize operating system interfaces to manage computer resources effectively</p> <ol style="list-style-type: none"> a. Operating system. b. File management. c. Relationship between system software and application software. d. User interface. <p>3. Extract and synthesize information from available Internet resources using intelligent search and discrimination</p> <ol style="list-style-type: none"> a. Client/server. b. Internet applications. <p>4. Define, explain, and demonstrate proper computer terminology usage in areas such as hardware, software, and communications to effectively interact with other computer users and to prepare for higher-level computer courses.</p> <ol style="list-style-type: none"> a. Computer literacy concepts and terminology. b. Computer hardware components, their functions, and upgrades. c. Software and software updates. <p>5. Describe ethical issues involved in the use of computer technology.</p> <ol style="list-style-type: none"> a. Ethical issues and behavior regarding computer usage including copyright infringement, security and 	<p>1. Utilize the appropriate computer application(s) to produce professional-level documents, spreadsheets, presentations, databases, and web pages for effective communication (major content area).</p> <ol style="list-style-type: none"> a. Common Skills <ol style="list-style-type: none"> 1) Create and edit a product. 2) Apply formatting to enhance the effectiveness of a product. 3) Solve problems using application programs. 4) Choose the proper application software to solve a specific problem and/or produce a desired output. 5) Insert and manipulate graphic objects and tables. 6) Utilize common tools such as spell check. b. Spreadsheet <ol style="list-style-type: none"> 1) Create, edit, and format electronic spreadsheet using formulas and functions. 2) Create charts to visually depict spreadsheet data. 3) Utilize spreadsheet analysis to perform “what if” analysis. c. Word processing <ol style="list-style-type: none"> 1) Produce documents in a variety of formats. 2) Produce a document using a template. d. Database <ol style="list-style-type: none"> 1) Utilize a database with queries and reports that display required data. 2) Answer a question by querying and reporting data. 3) Maintain (update) data currency. e. Presentation <ol style="list-style-type: none"> 1) Create and organize a variety of electronic slides using templates, background styles, graphics, photos, and animation effects. 2) Organize content into succinct slide presentations. f. Web page design <ol style="list-style-type: none"> 1) Create web pages that contain hyperlinks and images that are suitable for publication. 2) Describe web publishing requirements. g. Application integration: Copy, paste, and link content across applications. <p>2. Utilize operating system interfaces to manage computer resources effectively.</p> <ol style="list-style-type: none"> a. Demonstrate use of an operating system to perform file management. b. Differentiate the functions of system software versus application software. <p>3. Extract and synthesize information from available Internet resources using intelligent search and discrimination.</p> <ol style="list-style-type: none"> a. Use an Internet client to navigate and search the Internet. b. Refine online research techniques. c. Use and identify Internet communication programs (electronic mail, chat, bulletin boards, and discussion groups) to communicate effectively and send/receive

<p>safety online.</p> <p>b. Social issues in relationship to technology use such as piracy, security intrusion, electronic and other misuses.</p>	<p>attachments.</p> <p>d. Discriminate between web sites for reliability and validity of information.</p> <p>4. Define, explain, and demonstrate proper computer terminology usage in areas such as hardware, software, and communications to effectively interact with other computer users and to prepare for higher-level computer courses.</p> <ol style="list-style-type: none"> Explain fundamental computer literacy concepts and terminology. Use proper terminology to describe computer hardware components and their function in processing software instructions and input data. Explain the necessity for computer hardware and software updates. Differentiate between saving and backing up data. <p>5. Describe ethical issues involved in the use of computer technology.</p> <ol style="list-style-type: none"> Discuss the ethical issues regarding computer usage including copyright infringement, security and safety online
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LEARNING RESOURCES

Virtual Textbook & Online Training: [SimNet Online](#)

Course Website: <http://vanessa.wcc.hawaii.edu/ICS101>

Laulima: <https://laulima.hawaii.edu/portal>

Required Software:

- Windows computers (one of the following)
 - Microsoft Office Professional 2007/2010
 - Microsoft Office Student & Family 2007/2010 & use of Microsoft Access 2007/2010
- Mac Computers (one of the following)
 - Microsoft Office 2011 & use of Microsoft Access for Windows
 - Microsoft Office Professional 2007/2010 running on a Windows partition such as Boot Camp or Parallels (requires Windows to also be installed)

ADDITIONAL INFORMATION

Distance Learning: This course is distance learning using Laulima and web resources. The same amount of time as normal classroom courses is required to complete the work for this course. Each week, schedule yourself enough time to complete the lessons and assignments.

Exams: Exams will be based on class lessons, class readings, and understanding and comprehension of skills learned in class. The final exam will be comprehensive. The exams are questions and answer and not hands on skills based. Completing all the lessons, exercises, projects will be an immense help completing the exam with a high score.

Assignments: All assignments, lessons, exercises will be posted online. Students are responsible to check the calendar frequently for class changes, information, and assignments. Assignments should be turned in via Laulima or email as specified in the assignment. Each student is individually responsible to see that work is completed on time. All work must be student's own work.

Assignments are normally graded within one week from the *due date*. Late assignments will be graded late. If you want quick grading, be on time!

Service-Learning Option: Service-learning combines community service with course learning objectives. Service-learning will allow students to learn about office applications through the performance of volunteer service (minimum 20 hours during the semester) for a not for profit

organization and may be completed instead of 3 of the 6 software projects. The primary product submitted for assessment is production of a word processing document, a spreadsheet, and work on a database. Service-learning is done on a volunteer basis; paid positions are not eligible.

If you select this option, Windward CC's Service-learning Office will assist you in finding a position. Requirements: Submit the S-L Student Site Proposal form, Assumption of Risk, Release, and Waiver form, 1 mid-semester project progress meeting, timesheet (days/times/total hours), Supervisor Evaluation form, and MS Office files that demonstrate the course learning outcomes.

Email: Information regarding the class will be sent to your UH email address, check your email frequently. Email also the preferred method of contacting the teacher. **Use your UH email address to correspond with the instructor.**

Ask Questions: Students are often more successive if they ASK QUESTIONS! If you don't understand a term used - ASK! If you are uncertain of steps to take on a project - ASK! If you need extra help - ASK!. The teacher is always more than willing to give help, but does not know if you need help unless you ask.

Individual Responsibility: My philosophy is that students in college are adults and therefore responsible for their own performance in class. Each student must take the responsibility to check the course schedule and be sure that all lessons and assignments are completed. Students who take responsibility for their own actions will be better equipped to deal with later employment. Learn to take control of your own life – take responsibility for completing your work.

Zero Tolerance for Academic Dishonesty: Cheating by file sharing (giving or receiving files between students), more than one student working on the same file, or copying work (in full or in part) from other sources such as the Internet, and any other form of academic dishonesty will not be tolerated. Anyone caught cheating will be assigned **MINUS 60** points for that assignment, in addition a report of the incidence will be filed, which **may result in the student being expelled from the school.**

Be aware that files used for projects in this course have special hidden codes for each student.

DO YOUR OWN WORK and everything will be fine.

Please see the college catalog for the school's policy on academic dishonesty.

DISABILITIES ACCOMMODATION STATEMENT

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale 'Akoakoa 213 for more information.

Course Calendar

[See course website](#)