

University of Hawai'i • Kapi`olani Community College • **Business, Legal and Technology (BLT) Education Department**  
**Information Technology (ITS) AS Degree Program Curriculum (60 credits)—Fall 2015/Spring 2016**

Advisors: Students with last names "A-L" contact Lori Sakaguchi at [LLsakagu@hawaii.edu](mailto:LLsakagu@hawaii.edu) or 734-9017

Students with last names "M-Z" contact Cynthia Kimura at [ckimura@hawaii.edu](mailto:ckimura@hawaii.edu) or 734-9107

This is a suggested, not required, sequence of courses. Register for as many classes as qualified for, desired, and interested in. Use STAR Graduation Pathway.

First Semester Courses	Prerequisite and other information	**Applies to UHWO bachelor degree
ICS 100 Computing Literacy & Applications or ICS 101 Digital Tools for the Information World ( <i>highly recommended</i> )	None Recommended Preparation: Keyboarding experience; credit or qualification for ENG 100 or ESL 100; credit or qualification for MATH 103 or higher level mathematics	Yes
ITS 124 Small Business Networking	Prerequisite(s): Qualification for ENG 22 or ESOL 94 or higher; qualification for MATH 24 or higher level Recommended Preparation: ICS 101	Yes
ITS 128 Introduction to Problem Solving & the Programming Process	Prerequisite(s): Qualification for ENG 22 or higher level English; qualification for MATH 24 or higher level Recommended Preparation: Keyboarding experience, credit in ICS 101	Yes
ITS 129 Introduction to Databases	Prerequisite(s): Qualification for ENG 22 or ESOL 94 or higher; qualification for MATH 24 or higher level	Yes
BUS 120 Principles of Business	None	Yes
Second Semester Courses	Prerequisite and other information	
ACC 201 Introduction to Financial Accounting	Recommended Preparation: ICS 100 or ICS 101; qualification for MATH 24 or higher; ENG 22 or higher	Yes
ITS 144 Business PC System Maintenance/Support and OS Installation	Prerequisite(s): Qualification for ENG 22 or ESOL 94 or higher; qualification for MATH 24 or higher level Recommended Preparation: Completion of ICS 101	Yes
ITS 148 Visual Studio.NET I	Prerequisite(s): ITS 128 or consent of the instructor or program coordinator Recommended Preparation: Keyboarding experience, credit in ICS 101	Yes
ITS 149AD Database Administration I	Prerequisite(s): ITS 129 or consent of the instructor or BLT department chair	Yes
ENG 100 Composition I, or ESL 100 Composition I	Prerequisite(s): ENG 22 with a grade of "C" or better, or qualification for ENG 100 Prerequisite(s): Qualification for ESL 100, or a grade of "C" or better in ENG 22, or successful completion of ESOL 94, or instructor recommendation	ENG 100 or ESL 100
Third Semester Courses	Prerequisite and other information	
BUS 250 Applied Mathematics in Business, or MATH 103 Fundamentals of College Algebra, or higher level mathematics	Prerequisite(s): A grade of "C" or higher in MATH 103 or qualification for MATH 135 Recommended preparation: ICS 100 or ICS 101; qualification for ENG 100 or ESL 100 Prerequisite(s): A grade of "C" or better in MATH 25 or qualification for MATH 103	BUS 250 or MATH 103 or higher level
ITS 224 Help Desk Support Practices	Prerequisite(s): A grade of "C" or better in ITS 124 and ITS 144 or consent of the instructor or BLT dept chair	Yes
ITS 228 Visual Studio.NET II	Prerequisite(s): ITS 148 or consent of the instructor or program coordinator	Yes
ITS 229AD Database Administration II	Prerequisite(s): ITS 149AD or consent of the instructor or BLT department chair	Yes
ITS 227 Web Site Development	Recommended Preparation: ITS 124; ITS 129; ITS 148	Yes
Fourth Semester Courses	Prerequisite and other information	
KCC AS/SS Social Science requirement: ECON 120 Introduction to Economics, or ECON 130 Principles of Economics/Micro, or ECON 131 Principles of Economics/Macro	Prerequisite(s): Qualification for MATH 24; qualification for ENG 100 Prerequisite(s): MATH 25; qualification for ENG 100 Prerequisite(s): ECON 130; MATH 25; qualification for ENG 100	Yes
ITS 293 Information Technology Program Internship (generally offered fall semester)	Prerequisite(s): Consent of instructor, Info Tech program coordinator, or BLT department chair	Yes
AS/NS Natural Science requirement (one course) (100 level or higher)	See next page for AS/NS Natural Science course options or catalog See advisor if you plan to transfer to a university ( <i>*recommend: natural science with lab</i> )	*Yes
AS/AH Arts & Humanities requirement (one course) (100 level or higher)	See next page for AS/AH Arts & Humanities course options or catalog See advisor if you plan to transfer to a university ( <i>*recommend: HWST 107 or other HAP focus DH, DL course</i> )	*Yes
eBUS 101 Teamwork Fundamentals, or SP 151 Personal and Public Speech, or SP 251 Principles of Effective Public Speaking	Recommended Preparation: Credit or concurrent enrollment in ENG 22 or qualification for ENG 100 or equivalent course; qualification for MATH 24 or higher level math course; ICS 100 or ICS 101 or equivalent Recommended Preparation: Qualification for ENG 100 or ESL 100 Recommended Preparation: SP 151, SP 200, ENG 100, or ESL 100	SP 151 or SP 251

\*\*Articulation agreement effective fall 2010

To view Information Technology Program Learning Outcomes see course syllabus

## AS in Information Technology—Course Planning

General Education Courses	Business Courses	ITS Courses	
ENG 100 or ESL 100	ACC 201	ITS 124	ITS 224
BUS 250 or MATH 103	BUS 120	ITS 128	ITS 227
ECON 120, ECON 130, or ECON 131	eBUS 101, SP 151, or SP 251	ITS 129	ITS 228
AS/AH Arts & Humanities (one course) <i>(Recommend: HWST 107 or other HAP focus DH, DL course)</i>	ICS 100 or ICS 101	ITS 144	ITS 229 AD
AS/NS Natural Science (one course) <i>(Not ICS 100)</i>		ITS 148	ITS 293
		ITS149 AD	

### 15-16 catalog information

**AS/AH ARTS & HUMANITIES course options: (\*can be used as AH or SS but not both)**

**AMST** 201, 202; **ART** 101, 189; **ASAN** \*100; 201, 202; **DNCE** 150; **EALL** 261, 262, 271, 272; **ENG** 270 (any alpha), 271 (any alpha), 272 (any alpha), 273 (any alpha); **HAW** 261, 262; **HIST** 151, 152, 231, 232, 241, 242, 252, 281, 282, 284, 288; **HUM** 269; **HWST** 100, 107 (recommended if transferring to UHWO); **IS** 109, 161; **LING** 102; **MUS** 106, 107, 108, 170, 229, 230; **PACS** \*108, 257; **PHIL** 100, 101, 102, 103, 211, 213, 250; **REL** 150, 151, 202; **SP** 251; **THEA** 101

**AS/NS NATURAL SCIENCE course options: (\*\*ICS 100/111 does not meet the UH West Oahu natural science requirement)**

**ASTR** 110, 280; **BIOC** 244; **BIOL** 101, 124, 130, 171, 172; **BOT** 101, 130, 201; **CHEM** 100, 161, 162; **FSHE** 185; **GEOG** 101; **GG** 103; **\*\*ICS** 100, 111; **ME** 213; **MICR** 130, 140; **OCN** 201; **PHYL** 160; **PHYS** 100, 122, 151; **ZOOL** 141, 142, 200

**Please note: A grade of “C” or better is required to satisfy the prerequisites of any Information Technology course. A grade of “C” or better is required in all Information Technology (ITS) courses in order to fulfill the requirements for the AS degree.** The issuance of an AS degree requires that the student must earn a grade point average (GPA) of 2.0 or higher for all courses applicable toward the degree. Information Technology students considering transfer to a university should consult with their advisor about the specific applicability of Kapi’olani CC courses to their bachelor degree program. The AS information technology program articulates to University of Hawai’i-West Oahu toward the Bachelor of Applied Science in Information Technology degree.

Advising sheets are subject to human error. To view Information Technology Program Learning Outcomes see course syllabus.

An Equal Opportunity/Affirmative Action Institution  
This information is available in alternate formats upon request; advance notice of 10 working days is requested  
Contact Cynthia N. Kimura at [ckimura@hawaii.edu](mailto:ckimura@hawaii.edu) or 808.734.9107

University of Hawai'i • Kapi'olani Community College • **Business, Legal and Technology (BLT) Education Department**  
**Information Technology Certificates**—Fall 2015/Spring 2016

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Students are encouraged to complete and apply for certificates. These courses apply to the Associate in Science Information Technology degree requirements

<b>Certificate of Competence in Database Administration (12 credits)</b>		
<b>Course</b>	<b>Prerequisite and other information</b>	<b>Credits</b>
ICS 100 Computing Literacy and Applications or ICS 101 Digital Tools for the Information World <i>(highly recommended)</i>	None	3
ITS 129 Introduction to Databases	Prerequisite(s): Qualification for ENG 22 or ESOL 94 or higher; qualification for MATH 24 or higher level	3
ITS 149AD Database Administration I	Prerequisite(s): ITS 129 or consent of the instructor or BLT department chair	3
ITS 229AD Database Administration II	Prerequisite(s): ITS 149AD or consent of the instructor or BLT department chair	3
Total Credits		12

**Please note: A grade of "C" or better is required in all applicable Information Technology (ITS) courses in order to fulfill the requirements for the certificate. Students must earn a grade point average (GPA) of 2.0 or higher for all courses required in the certificate.**

<b>Certificate of Competence in Help Desk Services (12 credits)</b>		
<b>Course</b>	<b>Prerequisite and other information</b>	<b>Credits</b>
ICS 100 Computing Literacy and Applications or ICS 101 Digital Tools for the Information World <i>(highly recommended)</i>	None	3
ITS 124 Small Business Networking (ITS 104)	Prerequisite(s): Qualification for ENG 22 or ESOL 94 or higher; qualification for MATH 24 or higher level Recommended Preparation: ICS 101	3
ITS 144 Business PC System Maintenance/ Support and OS Installation (ITS 220E)	Prerequisite(s): Qualification for ENG 22 or ESOL 94 or higher; qualification for MATH 24 or higher level Recommended Preparation: Completion of ICS 101	3
ITS 224 Help Desk Support Practices	Prerequisite(s): A grade of "C" or better in ITS 124 and ITS 144 or consent of the instructor or BLT department chair	3
Total Credits		12

**Please note: A grade of "C" or better is required in all applicable Information Technology (ITS) courses in order to fulfill the requirements for the certificate. Students must earn a grade point average (GPA) of 2.0 or higher for all courses required in the certificate.**

<b>Certificate of Competence in Programming (12 credits)</b>		
<b>Course</b>	<b>Prerequisite and other information</b>	<b>Credits</b>
ICS 100 Computing Literacy and Applications or ICS 101 Digital Tools for the Information World <i>(highly recommended)</i>	None	3
ITS 128 Introduction to Problem Solving & the Programming Process (ITS 103)	Prerequisite(s): Qualification for ENG 22 or higher level English; qualification for MATH 24 or higher level Recommended Preparation: Keyboarding experience, credit in ICS 101	3
ITS 148 Visual Studio.NET I (ITS 118)	Prerequisite(s): ITS 128 or consent of the instructor or program coordinator Recommended Preparation: Keyboarding experience, credit in ICS 101	3
ITS 228 Visual Studio. NET II (ITS 151)	Prerequisite(s): ITS 148 or consent of the instructor or program coordinator	3
Total Credits		12

**Please note: A grade of "C" or better is required in all applicable Information Technology (ITS) courses in order to fulfill the requirements for the certificate. Students must earn a grade point average (GPA) of 2.0 or higher for all courses required in the certificate.**

Advising sheets are subject to human error. To view Information Technology Program Learning Outcomes see course syllabus

Certificate of Achievement in Information Technology (30 credits)		
Course	Prerequisite and other information	Credits
ENG 100 Composition I, <b>or</b> ESL 100 Composition I	Prerequisite(s): ENG 22 with a grade of "C" or better, or qualification for ENG 100 on the KCC placement test Prerequisite(s): Qualification for ESL 100 on the placement test, or a grade of "C" or better in ENG 22, or successful completion of ESOL 94, or instructor recommendation	3
BUS 250 Applied Mathematics in Business, <b>or</b>  MATH 103 Fundamentals of College Algebra, <b>or</b> higher level mathematics	Prerequisite(s): A grade of "C" or higher in MATH 103 or qualification for MATH 135 Recommended preparation: ICS 100 or ICS 101; qualification for ENG 100 or ESL 100  Recommended Preparation: Qualification for ENG 100 or ESL 100; ICS 100 or ICS 101 Prerequisite(s): A grade of "C" or better in MATH 25 or qualification for MATH 103	3
ACC 201 Financial Accounting	Recommended Preparation: ICS 100 or ICS 101; qualification for MATH 24 or higher; ENG 22 or higher	3
BUS 120 Introduction to Business	None	3
ICS 100 Computing Literacy and Applications <b>or</b> ICS 101 Digital Tools for the Information World <i>(highly recommended)</i>	None Recommended Preparation: Keyboarding experience; credit or qualification for ENG 100 or ESL 100; credit or qualification for MATH 103 or higher level mathematics	3
ITS 124 Small Business Networking (ITS 104)	Prerequisite(s): Qualification for ENG 22 or ESOL 94 or higher; qualification for MATH 24 or higher level Recommended Preparation: ICS 101	3
ITS 128 Introduction to Problem Solving & the Programming Process (ITS 103)	Prerequisite(s): Qualification for ENG 22 or higher ENG; qualification for MATH 24 or higher level Recommended Preparation: Keyboarding experience, credit in ICS 101	3
ITS 129 Introduction to Databases (ITS 113)	Prerequisite(s): Qualification for ENG 22 or ESOL 94 or higher; qualification for MATH 24 or higher level	3
ITS 144 Business PC System Maintenance/ Support and OS Installation (ITS 220E)	Prerequisite(s): Qualification for ENG 22 or ESOL 94 or higher; qualification for MATH 24 or higher level Recommended Preparation: Completion of ICS 101	3
ITS 224 Help Desk Support Practices	Prerequisite(s): A grade of "C" or better in ITS 124 and ITS 144 or consent of the instructor or BLT dept chair	3
	Total Credits	30

**Please note: A grade of "C" or better is required in all Information Technology (ITS) courses in order to fulfill the requirements for certificate. Students must earn a grade point average (GPA) of 2.0 or higher for all courses applicable to the certificate.**

Advanced Professional Certificate in Information Technology (18 credits) (These courses articulate to the University of Hawai'i-West Oahu Bachelor of Applied Science in Information Technology degree)		
Course	Prerequisite and other information	Credits
ITS 324 PC & Network Security and Safeguards <i>(normally fall semester)</i>	Prerequisite(s): A grade of "C" or better in ITS 224, consent of the instructor, BLT department chair, or program coordinator	3
ITS 327 Dynamic Hyper Text Markup Language (DHTML) <i>(normally spring semester)</i>	Prerequisite(s): A grade of "C" or better in ITS 227, consent of the instructor, BLT department chair, or program coordinator	3
ITS 328 Advanced Database Programming with VS.Net <i>(normally fall semester)</i>	Prerequisite(s): A grade of "C" or better in ITS 228, consent of the instructor, BLT department chair, or program coordinator	3
ITS 344 Small Business Server Administration <i>(normally spring semester)</i>	Prerequisite(s): A grade of "C" or better in ITS 224, consent of the instructor, BLT department chair, or program coordinator	3
ITS 347 Active Server Pages—Web Development <i>(normally fall semester)</i>	Prerequisite(s): A grade of "C" or better in ITS 227; a grade of "C" or better in ITS 327; a grade of "C" or better in ITS 228; or consent of the instructor, BLT department chair, or program coordinator	3
ITS 381(alpha) Topics in Information Technology <i>(normally spring semester)</i>	Prerequisite(s): A grade of "C" or better in ITS 224; a grade of "C" or better in ITS 227; a grade of "C" or better in ITS 228; a grade of "C" or better in ITS 229AD; a grade of "C" or better in all prerequisites of the same topic; or consent of the instructor, BLT department chair, or program coordinator	3
	Total Credits	18

**Please note: A grade of "C" or better is required in all Information Technology (ITS) courses in order to fulfill the requirements for the certificate.**

Advising sheets are subject to human error. To view Information Technology Program Learning Outcomes see course syllabus.