



INFORMATION TECHNOLOGY PROGRAMS - CATALOG YEAR 2014 - 2015

Find the Right Educational Degree Plan

There are two distinctly different ways to pursue your education at HCC. Each pattern has its own particular purpose, and its own advantages and disadvantages. Read the descriptions carefully to make an informed choice. You must choose one of the two following patterns: The *Academic Transfer* pattern of education **OR** The *Workforce Career* pattern of education. For more information, visit our [College and Career Planner Guide](#).

ACADEMIC TRANSFER PLANS

Computer Information Systems - Associate in Arts	2-3
Computer Science - Associate in Science	4-5

WORKFORCE CAREERS

COMPUTER PROGRAMMING

Applications Development- Microsoft C# - AAS.	6
Applications Development- Microsoft C# - Certificate: Level I	7
Applications Development -Microsoft C++ - AAS.	8
Applications Development - Java - AAS	9
Applications Development - Java - Certificate: Level I	10

COMPUTER SYSTEMS, NETWORKING AND TELECOMMUNICATIONS

Network & Computer Systems Admin. (MCITP) - Specialization - AAS	11-12
Network & Computer Systems Admin. (MCITP) - Certificate: Level 1	13
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Network Systems & Unified Communication Certificate: Level I (Cisco)	20
Computer and Information Science Technology - PC Support Specialization - AAS .21-22	
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GEOGRAPHIC INFORMATION SCIENCE

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**HOUSTON COMMUNITY COLLEGE SYSTEM
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

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NAME:		SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/14-8/14/15	

COMPUTER INFORMATION SYSTEMS - ASSOCIATE IN ARTS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.		The Houston Community College (HCC) Associate in Arts - Computer Information Systems degree is intended for students planning on transferring to a senior college or university to receive a baccalaureate degree. The degree accomplishes the completion of seven of the nine Foundational Component Area (FCA) and all of the Tuning for Community College Program of Study for Transfer Leading to a Computer Information Systems and Sciences Program (Aug 2013) as outlined by the Texas Higher Education Coordinating Board (THECB).							
SUGGESTED 2 YEAR PLAN									
FIRST YEAR									
FIRST SEMESTER - FALL									
EDUC 1300 Learning Framework	3								
ENGL 1301 Composition I	3								
MATH 1324 Finite Mathematics with Applications	3								
BCIS 1405 Business Computer Applications <i>OR</i>									
BCIS 1305 Business Computer Applications	3								
D. HIST #3## American History *	3								
SEMESTER TOTAL	15								
SECOND SEMESTER - SPRING									
ENGL 1302 Composition II	3								
MATH 1325 Elements of Calculus with Applications	3								
COSC 1436 Programming Fundamentals I	4								
A. XXXX #3## Life Physical Science *	3								
D. HIST #3## American History *	3								
SEMESTER TOTAL	16								
SECOND YEAR									
FIRST SEMESTER - FALL									
MATH 1342 Statistics	3								
COSC 1437 Programming Fundamentals II	4								
ECON 2301 Principles of Macroeconomics <i>OR</i>									
ECON 2302 Principles of Microeconomics	3								
GOVT 2305 Federal Government (Federal Constitution & Topics)	3								
B. XXXX #3## Creative Arts Elective *	3								
SEMESTER TOTAL	16								

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*** SEE NOTES**

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COMPUTER INFORMATION SYSTEMS - ASSOCIATE IN ARTS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
<i>(Continued from page 1)</i>									
SECOND YEAR									
FIRST SEMESTER - FALL									
ACCT 2301 Principles Accounting I	3								
COSC 2425 Computer Organization and Machine Language	4								
C. XXXX #3## Language, Philosophy and Culture FCA Course ** *	3								
GOVT 2306 Texas Government (Texas Constitution & Topics)	3								
SEMESTER TOTAL	13								
PROGRAM TOTAL	60								
* SEE NOTES									

ADDITIONAL COMMENTS & NOTES:

- * Even though you only need 60 credit hours to graduate, students might choose to complete a 3 credit hour course that satisfies the Creative Arts FCA requirement rather than a 2 hour elective.
- ** If you have not already taken the Creative Arts FCA course in conjunction with the "Elective" credit; the Language, Philosophy and Culture FCS course may be substituted with a Creative Arts FCA course.
- A.** Life Physical Science Elective (lab optional).....3 hrs
 ANTH 2301; ASTR 1303, 1304, 1403, 1404; BIOL 1308, 1309,1322, 1406, 1407; CHEM 1305, 1405, 1411, 1412, 1413; ENVR 1301, 1401; GEOG 1301; GEOL 1345, 1347, 1403, 1404, 1405; PHYS 1305, 1401, 1402, 2325, 2326
- B.** Creative Arts Elective (*choose one*).....3 hrs
 ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2361, 2366; ENGL 2307, 2308; HUMA 1301; MUSI 1301, 1306, 1310
- C.** Language, Philosophy and Culture Elective (*choose one*).....3 hrs
 ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351; HIST 2311, 2312; HUMA 2319; PHIL 1301, 1304, 2306, 2307, 2316, 2317
- D.** American History (choose two).....6 hrs
 Choose one from HIST 1301, 1302, 2301, 2328, or 2371, 2381

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COMPUTER SCIENCE - ASSOCIATE IN SCIENCE

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.									
<p>The Houston Community College (HCC) Associate in Science - Computer Science degree is intended for students planning on transferring to a senior college or university to receive a baccalaureate degree. The degree accomplishes the completion of seven of the nine Foundational Component Area (FCA) and all of the Computer Science Field of Study (FOS) Curriculum as outlined by the Texas Higher Education Coordinating Board (THECB).</p>									
SUGGESTED 2 YEAR PLAN									
FIRST YEAR									
FIRST SEMESTER - FALL									
EDUC 1300 Learning Framework	3								
ENGL 1301 Composition I	3								
MATH 2412 Precalculus OR	3-4								
MATH 2312 Precalculus									
COSC 1436 Programming Fundamentals I	4								
A. HIST #3## American History *	3								
SEMESTER TOTAL	16								
SECOND SEMESTER - SPRING									
ENGL 1302 Composition II	3								
MATH 2413 Calculus I	4								
COSC 1437 Programming Fundamentals II	4								
A. HIST #3## American History *	3								
SEMESTER TOTAL	14								
SECOND YEAR									
FIRST SEMESTER - FALL									
MATH 2414 Calculus II	4								
PHYS 2325 University Physics I	3								
PHYS 2125 Physics Laboratory I	1								
COSC 2436 Programming Fundamentals III	4								
GOVT 2305 Federal Government (Federal Constitution & Topics)	3								
SEMESTER TOTAL	15								
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* SEE NOTES

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COMPUTER SCIENCE - ASSOCIATE IN SCIENCE

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
(Continued from page 1)									
SECOND YEAR									
FIRST SEMESTER - FALL									
PHYS 2326 University Physics I	3								
PHYS 2126 Physics Laboratory I	1								
COSC 2425 Computer Organization and Machine Language	4								
B. XXXX #3## Social/Behavioral Science Elective * *	3								
GOVT 2306 Texas Government (Texas Constitution & Topics)	3								
SEMESTER TOTAL	14								
PROGRAM TOTAL	59								
* SEE NOTES									

ADDITIONAL COMMENTS & NOTES:

*The Social and Behavioral Sciences FCS course may be substituted with either a **Language,Philosophy and Culture** FCA course **OR** a **Creative Arts** FCA course.

- A.** American History (choose two).....6 hrs
Choose one from **HIST** 1301, 1302, 2301, 2328, or 2371, 2381
- B.** Social/Behavioral Science Elective (*choose one*)3 hrs
ANTH 2302, 2346, 2351; **ECON** 2301, 2302, 2311; **GEOG** 1302 ,1303, 2312; **GOVT** 2304; **HIST** 2389; **PHIL** 2307; **PSYC** 2301, 2389; **SOCI** 1301, 1306, 2301, 2319, 2336, 2374; **TECA** 1354
- C.** Creative Arts Elective (*choose one*)3 hrs
ARTS 1301, 1303, 1304; **DANC** 2303; **DRAM** 1310, 2361, 2366; **ENGL** 2307, 2308; **HUMA** 1301; **MUSI** 1301, 1306, 1310
- D.** Language, Philosophy and Culture Elective (*choose one*).....3 hrs
ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351; **HIST** 2311, 2312; **HUMA** 2319; **PHIL** 1301, 1304, 2306, 2307, 2316, 2317

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COMPUTER PROGRAMMING - AAS - APPLICATIONS DEVELOPMENT - MICROSOFT C#

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.					<i>*The capstone is INEW 2332 Comprehensive Software Project <u>OR</u> ITSE 1380 Cooperative Education.</i>				
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications	4								
COSC 1436 Programming Fundamentals I (with C#)	4								
SECOND SEMESTER									
MATH 1324 Finite Mathematics with Applications	3								
COSC 1437 Programming Fundamentals II (with C#)	4								
ITSE 1346 Database Theory and Design	3								
XXXX #3## General Education Elective	3								
THIRD SEMESTER									
XXXX #3## Approved Humanities/Fine Arts General Education Elective	3								
SECOND YEAR									
FIRST SEMESTER									
ITSE 1456 Extensible Markup Language (XML)	4								
ITSE 1430 Introduction to C# Programming	4								
XXXX #3## Department Approved Business Elective	3								
XXXX #3## Department Approved Computer Science Elective	3								
SECOND SEMESTER									
XXXX #3## Social/Behavioral Science General Education Elective	3								
XXXX #3## Department Approved Business Elective	3								
INEW 1340 ASP.NET Programming	3								
ITSE 2453 Advanced C# Programming	4								
ITSE 1380 Cooperative Education - Computer Programming/Programmer, General*									
INEW 2332 <u>OR</u> Comprehensive Software Project: Coding, Testing, and Implementation*	3								
PROGRAM TOTAL	62								

Program Approved Business Electives include:ACCT 2301, ACCT 2302, BUSG 1301, BUSG 2305, Busg 2317, BMGT 1301, BMGT 1303, BMGT1325, ECON 1301, ECON2301, ECON 2302, HRPO 1311, or HRPO 2307.

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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - MICROSOFT C# - CERTIFICATE: LEVEL I

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
COSC 1436 Programming Fundamentals I (with C#)	4								
SECOND SEMESTER									
COSC 1437 Programming Fundamentals II (with C#)	4								
THIRD SEMESTER									
INEW 1340 ASP.NET Programming	3								
ITSE 2453 Advanced C# Programming	4								
PROGRAM TOTAL	17								

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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - MICROSOFT C++ - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.					<i>*The capstone is INEW 2332 Comprehensive Software Project OR ITSE 1380 Cooperative Education.</i>				
FIRST YEAR									
FIRST SEMESTER	16								
LEAD 1200 Workforce Development with Critical Thinking	2								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications	4								
COSC 1436 Programming Fundamentals I - C++)	4								
SECOND SEMESTER	13								
MATH 1324 Finite Math with Applications	3								
COSC 1437 Programming Fundamentals II - C++	4								
ITSE 1346 Database Theory and Design	3								
XXXX #3## General Education Elective	3								
THIRD SEMESTER	6								
XXXX #3## Approved Humanities/Fines Arts Elective	3								
XXXX #3## General Education Elective	3								
SECOND YEAR									
FIRST SEMESTER	14								
COSC 2425 Computer Organization and Machine Language	4								
XXXX #3## Department Approved Computer Elective	3								
COSC 2436 Programming Fundamentals III - C++	4								
XXXX #3## Department Approved Business Elective	3								
SECOND SEMESTER	12								
ITSE 2357 Advanced Object - Oriented Programming	3								
ITSE 1380 Cooperative Education - Computer Programming/Programmer, General* OR									
INEW 2332 Comprehensive Software Project: Coding, Testing, and Implementation*	3								
XXXX #3## Social/Behavioral Science									
General Education Elective	3								
XXXX #3## Department Approved Business Elective	3								
PROGRAM TOTAL	61								

Program Approved Business Electives include:ACCT 2301, ACCT 2302, BUSG 1301, BUSG 2305, Busg 2317, BMGT 1301, BMGT 1303, BMGT1325, ECON 1301, ECON2301, ECON 2302, HRPO 1311, or HRPO 2307.

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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - JAVA - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.					<i>*The capstone is INEW 2332 Comprehensive Software Project OR ITSE 1380 Cooperative Education.</i>				
FIRST YEAR									
FIRST SEMESTER									
16									
LEAD 1200 Workforce Development with Critical Thinking	2								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications	4								
COSC 1436 Programming Fundamentals I (with Java)	4								
SECOND SEMESTER									
13									
MATH 1324 Finite Mathematics with Applications	3								
COSC 1437 Programming Fundamentals II (with Java)	4								
ITSE 1346 Database Theory and Design	3								
XXXX #3## General Education Elective	3								
THIRD SEMESTER									
4									
XXXX #3## Approved Humanities/Fine Arts/Gen. Ed. Elective	3								
XXXX #1## Elective	1								
SECOND YEAR									
FIRST SEMESTER									
13									
XXXX #3## Department Approved Business Elective	3								
XXXX #3## Department Approved Computer Science Elective	3								
ITSE 1345 Introduction to Oracle SQL	3								
ITSE 1456 Extensible Markup Language (XML)	4								
SECOND SEMESTER									
20									
XXXX #3## Social/Behavioral Science/General Ed Elective	3								
XXXX #3## Department Approved Business Elective	3								
INEW 2418 Web Programming Using Java Server Pages and Servlets	4								
INEW 2438 Advanced Java Programming	4								
ITSE 1380 Cooperative Education - Computer Programming/Programmer, General*	3								
INEW 2332 Comprehensive Software Project: Coding, Testing, and Implementation*	3								
PROGRAM TOTAL									
66									

Program Approved Business Electives include:ACCT 2301, ACCT 2302, BUSG 1301, BUSG 2305, Busg 2317, BMGT 1301, BMGT 1303, BMGT1325, ECON 1301, ECON2301, ECON 2302, HRPO 1311, or HRPO 2307.

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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - JAVA - CERTIFICATE: LEVEL I

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST YEAR									
FIRST SEMESTER	6								
LEAD 1200 Workforce Development with Critical Thinking	2								
COSC 1436 Programming Fundamentals I (with Java)	4								
SECOND SEMESTER	4								
COSC 1437 Programming Fundamentals II (with Java)	4								
THIRD SEMESTER	8								
INEW 2418 Web Programming Using Java Server Pages and Servlets	4								
INEW 2438 Advanced Java Programming	4								
PROGRAM TOTAL	18								

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NETWORK AND COMPUTER SYSTEMS ADMINISTRATION (MCITP) SPECIALIZATION - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications	4								
ITMT 1371 Windows 7 Configuration	3								
SEMESTER TOTAL	15								
SECOND SEMESTER									
XXXX #3## General Education Elective	3								
MATH 1324 Finite Mathematics with Applications	3								
ITSC 1425 Personal Computer Hardware OR									
CPMT 1411 Introduction to Computer Maintenance	4								
ITNW 1425 Fundamentals of Networking Technologies OR									
ITNW 1358 Network+ OR									
ITCC 1401 Cisco Exploration I - Network Fundamentals	4								
ITMT 2302 Windows Server 2008: Active Directory Configuration	3								
SEMESTER TOTAL	17								
THIRD SEMESTER									
COSC 1436 Programming Fundamentals I	4								
XXXX #3## Social/Behavioral Science/General Education Elective	3								
SEMESTER TOTAL	7								
SECOND YEAR									
FIRST SEMESTER									
SOCI 1301 Introduction to Sociology	3								
XXXX #3## Humanities/Fine Arts/ General									

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NETWORK AND COMPUTER SYSTEMS ADMINISTRATION (MCITP) SPECIALIZATION - AAS

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)	Comment/Disapproval			Signature	
Education Elective	3								
ITSC 1319 Internet/Web Page Development	3								
ITMT 2301 Windows Server 2008: Network Infrastructure Configuration	3								
ITSY 1342 Information Technology Security	3								
SEMESTER TOTAL	15								
SECOND SEMESTER									
XXXX #3## Approved Business Elective	3								
ITMT 2351 Windows Server 2008: Server Administrator	3								
ITNW 1380 Cooperative Education - Computer Systems Networking and Telecommunications	3								
SEMESTER TOTAL	9								
PROGRAM TOTAL	63								
Approved business elective courses: ACCT 2301, ACCT 2302, BUSG 1301, BUSG 2305, and BUSG 2317, BMGT 1301, BUSG 1325, BUSG 1327, ECON 1301, ECON 2301, HRPO 1311, HRPO 2307, MRKG 1391, OR MRKG 2372.									

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NETWORK AND COMPUTER SYSTEMS ADMINISTRATION - MCITP - CERTIFICATE: LEVEL I

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
ITMT 1371 Windows 7 Configuration	3								
SECOND SEMESTER									
ITMT 2302 Windows Server 2008									
Active Directory Configuration	3								
ITMT #3## Network and Computer Systems Elective	3								
THIRD SEMESTER									
ITMT 2301 Windows Server 2008:									
Network Infrastructure Configuration	3								
ITMT 2351 Windows Server 2008:									
Server Administrator	3								
PROGRAM TOTAL	17								

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COMPUTER SYS., NETWORKING AND TELECOMM. - NETWORK SYSTEMS AND COMPUTER SECURITY SPECIALIZATION - AAS

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
TSI testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications	4								
ITNW 1425 Fundamentals of Networking Technologies <i>OR</i>									
ITCC 1401 Cisco Exploration 1-Network Fundamentals	4								
SEMESTER TOTAL	16								
SECOND SEMESTER									
XXXX #3## Math/Natural Science/General Education Elective	3								
XXXX #3## Humanities/Fine Arts. Elective	3								
ITSY 1342 Information Technology Security	3								
ITSC 1316 LINUX Installation and Configuration <i>OR</i>									
ITMT 1371 Windows 7 Configuration	3								
SEMESTER TOTAL	12								
THIRD SEMESTER									
COSC 1436 Programming Fundamentals I	4								
XXXX #3## Social/Behavioral Science/General Edu. Elective	3								
SEMESTER TOTAL	7								
SECOND YEAR									
FIRST SEMESTER									
XXXX #3## Social/Behavioral Science, General Edu. Elective	3								
ITSC 1319 Internet/Web Page Development	3								
ITSY 2300 Operating System Security	3								
ITSC 1425 Personal Computer Hardware	4								

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COMPUTER SYS., NETWORKING AND TELECOMM. - NETWORK SYSTEMS AND COMPUTER SECURITY SPECIALIZATION - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
Comment/Disapproval									
ITMT 2302 Windows Server 2008: Active Directory Configuration <u>OR</u>									
ITSC 1358 UNIX System Administration I	3								
SEMESTER TOTAL	16								
SECOND SEMESTER									
ITSY 2330 Intrusion Detection	3								
ITMT 2301 Windows Server 2008 Network Infrastructure Configuration <u>OR</u>									
ITSC 1447 UNIX System Administration II	4								
ITSY 2343 Computer System Forensics	3								
ITNW 1380 Cooperative Education-Computer Systems Networking and Telecommunications <u>OR</u>									
ITNW 2335 Network Troubleshooting and Support	3								
SEMESTER TOTAL	13								
PROGRAM TOTAL	64								

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NETWORK SYSTEMS AND CYBER SECURITY - CERTIFICATE - LEVEL I

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
ITSY 1300 Fundamentals of Information Security	3								
ITCC 1401 Cisco Exploration I - Network Fundamentals	4								
SECOND SEMESTER									
ITSY 1371 Security + *	3								
ITSC 1321 Intermediate PC Operating Systems	3								
ITCC 1404 Cisco Exploration 2 - Routing Protocols and Concepts	4								
PROGRAM TOTAL	19								

* Capstone Class

**HOUSTON COMMUNITY COLLEGE SYSTEM
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___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
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NETWORK SYSTEMS AND CYBER SECURITY: (INFORMATION ASSURANCE) - CERTIFICATE - LEVEL II

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
ITSY 1300 Fundamentals of Information Security	3								
ITSC 1301 Introduction to Computers	3								
ITCC 1401 Cisco Exploration I - Network Fundamentals	4								
SEMESTER TOTAL	12								
SECOND SEMESTER									
ITSY 1371 Security +	3								
ITSC 1321 Intermediate PC Operating Systems	3								
ITCC 1404 Cisco Exploration 2 - Routing Protocols and Concepts	4								
SEMESTER TOTAL	10								
THIRD SEMESTER									
ITCC 2408 Cisco Exploration 3 - LAN Switching and Wireless	4								
SEMESTER TOTAL	4								
SECOND YEAR									
FIRST SEMESTER									
ITSY 2300 Operating System Security	3								
ITCC 2410 Cisco Exploration 4 - Accessing the WAN	4								
ITSY 2330 Intrusion Detection	3								
SEMESTER TOTAL	10								
SECOND SEMESTER									
ITMT 2351 Windows Server 2008: Server Administrator	3								
ITSY 2345 Network Defense and Countermeasures*	3								
SEMESTER TOTAL	6								
PROGRAM TOTAL	42								

*Capstone class

**HOUSTON COMMUNITY COLLEGE SYSTEM
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

___ FA ___ VA

NAME:		SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/14-8/14/15	

NETWORK SYSTEMS AND UNIFIED COMMUNICATION SPECIALIZATION - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI Testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications	4								
ITCC 1401 Cisco Exploration 1-Network Fundamentals	4								
SEMESTER TOTAL	16								
SECOND SEMESTER									
XXXX #3## General Education Elective	3								
MATH 1324 Finite Mathematics with Applications	3								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
ITCC 1404 Cisco Exploration 2-Routing Protocols and Concepts	4								
ITSC 1316 Linux Installation and Configuration <i>OR</i>									
ITMT 1371 Windows 7 Configuration	3								
SEMESTER TOTAL	16								
THIRD SEMESTER									
COSC 1436 Programming Fundamentals I	4								
SEMESTER TOTAL	4								
SECOND YEAR									
FIRST SEMESTER									
SOCI 1301 Introduction to Sociology	3								
ITSC 1319 Internet/Web Page Development	3								
ITCC 2408 Cisco Exploration 3-LAN Switching and Wireless	4								
ITCC 1408 Intro to Voice over Internet Protocol (VoIP)	4								

(Continued on page 2)

**HOUSTON COMMUNITY COLLEGE SYSTEM
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

___ FA ___ VA

NAME:		SID#:	TEL#:	EMAIL:	DATE:
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NETWORK SYSTEMS AND UNIFIED COMMUNICATION SPECIALIZATION - AAS

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval Signature	Date
	hr	Institution	Course	Transfer (TR)	Comment/Disapproval				
ITMT 2302 Windows Server 2008 Active Directory Configuration <u>OR</u>									
ITSC 1358 UNIX System Administration I	3								
SEMESTER TOTAL	17								
SECOND SEMESTER									
ITCC 2359 Advanced Voice Over Internet Protocol (VoIP)	3								
ITCC 2410 Cisco Exploration 4-Accessing the WAN	4								
ITNW 1380 Cooperative Education-Computer Systems Networking and Telecommunications** <u>OR</u>									
ITNW 2335 Network Troubleshooting and Support**	3								
SEMESTER TOTAL	10								
PROGRAM TOTAL	63								

**The capstone course is ITNW 1380 or ITNW 2335

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NETWORK SYSTEMS AND UNIFIED COMMUNICATION - (CISCO) CERTIFICATE - LEVEL I

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
ITCC 1401 Cisco Exploration 1-Network Fundamentals	4								
SECOND SEMESTER									
ITCC 1404 Cisco Exploration 2-Routing Protocols and Concepts	4								
THIRD SEMESTER									
ITCC 2408 Cisco Exploration 3-LAN Switching and Wireless	4								
ITCC 2410 Cisco Exploration 4-Accessing the WAN	4								
PROGRAM TOTAL	18								

**HOUSTON COMMUNITY COLLEGE SYSTEM
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COMPUTER AND INFORMATION SCIENCE TECHNOLOGY - PC SUPPORT SPECIALIZATION - AAS

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)	Comment/Disapproval			Signature	
TSI testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
ITNW 1425 Fundamentals of Networking Technologies	4								
BCIS 1405 Business Computer Applications	4								
SEMESTER TOTAL	16								
SECOND SEMESTER									
XXXX #3## General Education Elective	3								
MATH 1324 Finite Mathematics with Applications	3								
COSC 1436 Programming Fundamentals I	4								
ITMT 1371 Windows 7 Configuration	3								
SEMESTER TOTAL	13								
THIRD SEMESTER									
XXXX #3## Humanities/Fine Arts General Educ. Elective	3								
ITSC 2321 Integrated Software Applications II	3								
SEMESTER TOTAL	6								
SECOND YEAR									
FIRST SEMESTER									
SPCH 1311 Fundamentals of Speech <i>OR</i>									
SPCH 1315 Public Speaking <i>OR</i>									
SPCH 1321 Business and Professional Speaking	3								
XXXX #3## Approved Business Elective	3								
ITSC 1425 Personal Computer Hardware	4								
ITSC 1316 Linux Installation and Configuration	3								
ITSW 2334 Advanced Spreadsheets	3								
SEMESTER TOTAL	16								

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/14-8/14/15

COMPUTER AND INFORMATION SCIENCE TECHNOLOGY - PC SUPPORT SPECIALIZATION - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
					<i>*The capstone is ITSC 2339 Personal Computer Help Desk Support OR ITSE 1380 Cooperative Education.</i>				
SECOND SEMESTER									
XXXX #3## Social/Behavioral Science/General Ed Elective	3								
XXXX #3## Approved Business Elective	3								
ITSW 2337 Advanced Database	3								
ITSC 1380 Cooperative Education - Computer and Information Sciences, General*									
ITSC 2339 OR Personal Computer Help Desk Support*	3								
SEMESTER TOTAL	12								
PROGRAM TOTAL	63								

HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

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NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/14-8/14/15

COMPUTER AND INFORMATION SCIENCE TECHNOLOGY - PC SUPPORT - CERTIFICATE: LEVEL I

HCCS Course Requirement	cr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
TSI testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
BCIS 1405 Business Computer Applications	4								
SEMESTER TOTAL	6								
SECOND SEMESTER									
ITSC 1425 Personal Computer Hardware	4								
SEMESTER TOTAL	4								
THIRD SEMESTER									
ITSW 2334 Advanced Spreadsheets	3								
ITSW 2337 Advanced Database*	3								
SEMESTER TOTAL	6								
PROGRAM TOTAL	16								
<i>*Capstone</i>									

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/14-8/14/15

COMPUTER AND INFORMATION SCIENCE TECHNOLOGY - UNIX SPECIALIZATION - AAS

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)	Comment/Disapproval			Signature	
TSI Testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	3								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications	4								
ITNW 1425 Fundamentals of Networking Technologies	4								
SEMESTER TOTAL	16								
SECOND SEMESTER									
MATH 1324 Finite Mathematics with Applications	3								
COSC 1436 Programming Fundamentals I	4								
ITSC 1316 Linux Installation and Configuration	3								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
SEMESTER TOTAL	13								
THIRD SEMESTER (SUMMER)									
XXXX #3## Social/Behavioral Science Elective	3								
SEMESTER TOTAL	3								
SECOND YEAR									
FIRST SEMESTER									
ITSC 1342 Shell Programming	3								
ITSC 1358 Unix System Administration I	3								
ITSC 1425 Personal Computer Hardware	4								
XXXX #3## General Education Elective	3								
SOCI 1301 Introduction to Sociology	3								
SEMESTER TOTAL	16								

*Students may choose business electives as follows: ACCT 2301, ACCT 2302, BUSG 1301 BUSG 2305, BUSG 2317, BMGT 1301, BMGT 1303, BMGT 1325, ECON 1301, ECON 2301, HRPO 1311, HRPO 2307, MRKG 1391, or MRKG 2372

Updated: 06/10/2014

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NAME:		SID#:	TEL#:	EMAIL:	DATE:
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COMPUTER AND INFORMATION SCIENCE TECHNOLOGY - UNIX SPECIALIZATION - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
SECOND SEMESTER									
XXXX #3## Approved Business Elective*	3								
ITNW 2432 UNIX Network Integration	4								
ITSC 1447 UNIX System Administration II	4								
ITNW 1380 Cooperative Education - Computer Systems Networking and Telecommunications <i>OR</i>									
ITNW 2335 Network Troubleshooting and Support	3								
SEMESTER TOTAL	14								
PROGRAM TOTAL	62								

*Students may choose business electives as follows: ACCT 2301, ACCT 2302, BUSG 1301 BUSG 2305, BUSG 2317, BMGT 1301, BMGT 1303, BMGT 1325, ECON 1301, ECON 2301, HRPO 1311, HRPO 2307, MRKG 1391, or MRKG 2372

**HOUSTON COMMUNITY COLLEGE SYSTEM
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DIGITAL GAMING AND SIMULATION FOR ARTISTS - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER	16								
LEAD 1200 Workforce Development with Critical Thinking	2								
GAME 1212 Game Theory	2								
GAME 1306 Design and Creation of Games	3								
ARTC 1302 Digital Imaging I	3								
ARTC 1309 Basic Illustration	3								
GAME 1336 Introduction to 3D Game Modeling	3								
SECOND SEMESTER	12								
GAME 1314 Character Sculpting	3								
GAME 1334 Video Game Art I	3								
GAME 2309 Video Game Art II	3								
XXXX #3## Math/Natural Science General Ed. Elective	3								
THIRD SEMESTER	6								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
XXXX #3## Social/Behavioral Science General Ed. Elective	3								
SECOND YEAR									
FIRST SEMESTER	15								
GAME 2332 Project Development I	3								
GAME 1374 Introduction to 3D Game Animation	3								
GAME 1304 Level Design	3								
GAME 2312 Interactive Audio	3								
XXXX #3## General Education Elective	3								
SECOND SEMESTER	15								
GAME 2325 3D Animation II-Character Setup	3								
GAME 2334 Project Development II	3								
GAME 2308 Portfolio for Game Development	3								
GAME 2386 Internship- Animation, Interactive Technology, Video Graphics and Special Effects**	3								
XXXX #3## General Education Elective	3								
PROGRAM TOTAL	64								

The **capstone course is: GAME 2386 Internship.

HOUSTON COMMUNITY COLLEGE SYSTEM
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DIGITAL GAMING AND SIMULATION FOR ARTISTS - CERTIFICATE: LEVEL I

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
FIRST YEAR									
FIRST SEMESTER	16								
LEAD 1200 Workforce Development with Critical Thinking	2								
GAME 1212 Game Theory	2								
GAME 1306 Design and Creation of Games	3								
ARTC 1302 Digital Imaging I	3								
GAME 1336 Introduction to 3D Game Modeling	3								
ARTC 1309 Basic Illustration	3								
SECOND SEMESTER	6								
GAME 1314 Character Sculpting	3								
GAME 1334 Video Game Art I	3								
PROGRAM TOTAL	22								

HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

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DIGITAL GAMING AND SIMULATION FOR ARTISTS - CERTIFICATE: LEVEL II

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
GAME 1212 Game Theory	2								
GAME 1306 Design and Creation of Games	3								
ARTC 1302 Digital Imaging I	3								
GAME 1336 Introduction 3D Game Modeling	3								
ARTC 1309 Basic Illustration	3								
SECOND SEMESTER									
12									
GAME 1314 Character Sculpting	3								
GAME 1334 Video Game Art I	3								
GAME 2309 Video Game Art II	3								
GAME 2312 Interactive Audio	3								
SECOND YEAR									
FIRST SEMESTER									
9									
GAME 2332 Project Development I	3								
GAME 1374 Introduction to 3D Game Animation	3								
GAME 1304 Level Design	3								
SECOND SEMESTER									
9									
GAME 2325 3D Animation II-Character Setup	3								
GAME 2334 Project Development II	3								
GAME 2308 Portfolio for Game Development	3								
PROGRAM TOTAL	46								

**HOUSTON COMMUNITY COLLEGE SYSTEM
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

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DIGITAL GAMING AND SIMULATION FOR PROGRAMMERS - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
GAME 1306 Design and Creation of Games	3								
GAME 137X Introduction to Game Programming	3								
ARTC 1302 Digital Imaging I	3								
MATH 1314 College Algebra	3								
SECOND SEMESTER									
GAME 1212 Game Theory	2								
GAME 1336 Introduction to 3D Game Modeling	3								
GAME 2312 Interactive Audio	3								
GAME 2302 Mathematical Applications for Game Development	3								
GAME 1343 Game and Simulation Programming I	3								
THIRD SEMESTER									
XXXX #3## Social/Behavioral Science General Ed Elective	3								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
SECOND YEAR									
FIRST SEMESTER									
GAME 2332 Project Development I	3								
GAME 1304 Level Design	3								
GAME 2319 Game Engine	3								
XXXX #3## General Education Elective	3								
GAME 1359 Game and Simulation Programming II	3								
SECOND SEMESTER									
GAME 2334 Project Development II	3								
XXXX #3## Math/ Natural Science General Ed. Elective	3								
GAME 2308 Portfolio for Game Development	3								
GAME 2386 Internship- Animation, Interactive Technology, Video Graphics and Special Effects	3								
PROGRAM TOTAL	61								

HOUSTON COMMUNITY COLLEGE SYSTEM
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DIGITAL GAMING AND SIMULATION FOR PROGRAMMERS - CERTIFICATE: LEVEL I

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)	Comment/Disapproval			Signature	
FIRST YEAR									
FIRST SEMESTER	8								
LEAD 1200 Workforce Development with Critical Thinking	2								
GAME #3## Mathematical Concepts in Game Programming	3								
GAME 1328 Video Game Design	3								
SECOND SEMESTER	9								
GAME 1343 Game and Simulation Programming I	3								
GAME 2302 Mathematical Applications for Game Development	3								
GAME 2341 Game Scripting	3								
PROGRAM TOTAL	17								

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SID#:	TEL#:	EMAIL:	DATE:
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DIGITAL GAMING AND SIMULATION FOR PROGRAMMERS - CERTIFICATE: LEVEL II

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking	2								
GAME 1306 Design and Creation of Games	3								
GAME 137X Introduction to Game Programming	3								
ARTC 1302 Digital Imaging I	3								
MATH 1314 College Algebra	3								
SEMESTER TOTAL	14								
SECOND SEMESTER									
GAME 1212 Game Theory	2								
GAME 1336 Introduction to 3D Game Modeling	3								
GAME 2312 Interactive Audio	3								
GAME 2302 Mathematical Applications for Game Development	3								
GAME 1343 Game and Simulation Programming It	3								
SEMESTER TOTAL	14								
SECOND YEAR									
FIRST SEMESTER									
GAME 2332 Project Development I	3								
GAME 1304 Level Design	3								
GAME 2319 Game Engine	3								
GAME 1359 Game and Simulation Programming II	3								
SEMESTER TOTAL	12								
SECOND SEMESTER									
GAME 2308 Portfolio for Game Development	3								
GAME 2386 Internship- Animation, Interactive Technology, Video Graphics and Special Effects	3								
SEMESTER TOTAL	6								
PROGRAM TOTAL	46								

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**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SID#:	TEL#:	EMAIL:	DATE:
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GEOGRAPHIC INFORMATION SCIENCE - ANALYST - CERTIFICATE: LEVEL II

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)	Comment/Disapproval			Signature	
TSI testing is required prior to first enrollment.									
FIRST SEMESTER	13								
LEAD 1200 Workforce Development with Critical Thinking	2								
GISC 1411 Introduction to GIS	4								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications	4								
SECOND SEMESTER	17								
GISC 2250 Scripting for Geographic Information Systems (GIS)	2								
COSC 1436 Programming Fundamentals I	4								
GISC 1401 Cartography and Geography in GIS/GPS	4								
GISC 1421 Introduction to Raster-Based GIS	4								
ITSE 1345 Introduction to Oracle SQL	3								
THIRD SEMESTER	18								
GISC 2411 Geographic Info. Systems (GIS) Applications	4								
GISC 1491 Special Topics in Cartography	4								
GISC 2364 Practicum (or Field Experience) Cartography <u>OR</u>									
GISC 2380 Cooperative Education- Cartography	3								
GISC 2401 Data Acquisition and Analysis in GIS	4								
GISC 2359 Web-Served Geographic Information Systems (GIS)	3								
PROGRAM TOTAL	48								

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NAME:	SID#:	TEL#:	EMAIL:	DATE:
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GEOGRAPHIC INFORMATION SCIENCE - GIS TECHNICIAN - CERTIFICATE:LEVEL I

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST SEMESTER	13								
LEAD 1200 Workforce Development with Critical Thinking	2								
GISC 1411 Introduction to GIS	4								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications	4								
SECOND SEMESTER	15								
COSC 1436 Programming Fundamentals I	4								
GISC 1401 Cartography and Geography in GIS/GPS	4								
GISC 1421 Introduction to Raster-Based GIS	4								
ITSE 1345 Introduction to Oracle SQL	3								
THIRD SEMESTER	3								
GISC 2364 Practicum (or Field Experience) Cartography OR									
GISC 2380 Cooperative Education- Cartography	3								
PROGRAM TOTAL	31								

**HOUSTON COMMUNITY COLLEGE SYSTEM
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GEOGRAPHIC INFORMATION SCIENCE - MARKETABLE SKILLS ACHIEVEMENT AWARD

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST SEMESTER									
GISC 1411 Introduction to GIS	4								
GISC 1401 Cartography and Geography in Geographical Information Systems (GIS) and Global Positioning Systems	4								
SECOND SEMESTER									
GISC 2411 Geographic Information Systems (GIS) Applications, <i><u>OR</u></i>									
GISC 2401 Data Acquisition and Analysis in Geographic Information Systems (GIS)	4								
PROGRAM TOTAL	12								
<i>A student can only earn one MSA per academic year.</i>									