

INFORMATION TECHNOLOGY PROGRAMS OFFERED FOR YEAR 2013 - 2014



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COMPUTER PROGRAMMING

Applications Development- Microsoft C# - AAS	2
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**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 8/15/13-8/14/14

COMPUTER PROGRAMMING - AAS - APPLICATIONS DEVELOPMENT - MICROSOFT C#

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I (with C#)						
SECOND SEMESTER						
MATH 1324 Finite Mathematics with Applications						
COSC 1437 Programming Fundamentals II (with C#)						
ITSE 1346 Database Theory and Design						
XXXX #3## General Education Elective						
THIRD SEMESTER						
XXXX #3## Approved Humanities/Fine Arts General Education Elective						
XXXX #1## Elective						
SECOND YEAR						
FIRST SEMESTER						
ITSE 1456 Extensible Markup Language (XML)						
ITSE 1430 Introduction to C# Programming						
XXXX #3## Department Approved Business Elective						
XXXX #3## Social/Behavioral Science General Education Elective						
SECOND SEMESTER						
INEW 1340 ASP.NET Programming						
ITSE 2453 Advanced C# Programming						
ITSE 1380 Cooperative Education - Computer Programming/Programmer, General*						
INEW 2332 OR Comprehensive Software Project: Coding, Testing, and Implementation*						
XXXX #3## Department Approved Business Elective						

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.

*The capstone is INEW 2332 Comprehensive Software Project
OR ITSE 1380 Cooperative Education.

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

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
COSC 1436 Programming Fundamentals I (with C#)						
SECOND SEMESTER						
COSC 1437 Programming Fundamentals II (with C#)						
THIRD SEMESTER						
INew 1340 ASP.NET Programming						
ITSE 2453 Advanced C# Programming						

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NAME:	SS#:	DATE:
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COMPUTER PROGRAMMING - AAS - APPLICATIONS DEVELOPMENT - MICROSOFT C++

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I - C++)						
SECOND SEMESTER						
MATH 1324 Finite Math with Applications						
COSC 1437 Programming Fundamentals II - C++						
ITSE 1346 Database Theory and Design						
XXXX #1## Elective						
THIRD SEMESTER						
XXXX #3## Approved Humanities/Fines Arts Elective						
XXXX #3## General Education Elective						
SECOND YEAR						
FIRST SEMESTER						
ITSE 1456 Extensible Markup Language						
COSC 2425 Computer Organization and Machine Language						
COSC 2436 Programming Fundamentals III - C++						
XXXX #3## Department Approved Business Elective						
SECOND SEMESTER						
ITSE 2357 Advanced Object - Oriented Programming						
ITSE 1380 Cooperative Education - Computer Programming/Programmer, General*						
INEW 2332 <u>OR</u> Comprehensive Software Project: Coding, Testing, and Implementation*						
XXXX #3## Social/Behavioral Science						
General Education Elective						
XXXX #3## Department Approved Business Elective						

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.

*The capstone is INEW 2332 Comprehensive Software Project
OR ITSE 1380 Cooperative Education.

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NAME:	SS#:	DATE:
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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - JAVA - AAS

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

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.

*The capstone is INEW 2332 Comprehensive Software Project
OR ITSE 1380 Cooperative Education.

Updated: 06/24/14

HOUSTON COMMUNITY COLLEGE SYSTEM

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NAME:	SS#:	DATE:
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COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 8/15/13-8/14/14
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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - JAVA - CERTIFICATE: LEVEL I

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
COSC 1436 Programming Fundamentals I (with Java)						
SECOND SEMESTER						
COSC 1437 Programming Fundamentals II (with Java)						
THIRD SEMESTER						
INEW 2418 Web Programming Using Java Server Pages and Servlets						
INEW 2438 Advanced Java Programming						

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
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NETWORK AND COMPUTER SYSTEMS ADMINISTRATION (MCITP) SPECIALIZATION - AAS

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITMT 1371 Windows 7 Configuration						
SECOND SEMESTER						
XXXX #3## General Education Elective						
MATH 1324 Finite Mathematics with Applications						
ITSC 1425 Personal Computer Hardware OR						
CPMT 1411 Introduction to Computer Maintenance						
ITNW 1425 Fundamentals of Networking Technologies OR						
ITNW 1358 Network+ OR						
ITCC 1401 Cisco Exploration I - Network Fundamentals						
ITMT 2302 Windows Server 2008: Active Directory Configuration						
THIRD SEMESTER						
COSC 1436 Programming Fundamentals I						
XXXX #3## Social/Behavioral Science/General Education Elective						
SECOND YEAR						
FIRST SEMESTER						
SOCI 1301 Introduction to Sociology						
XXXX #3## Humanities/Fine Arts/ General Education Elective						
ITSC 1319 Internet/Web Page Development						

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NETWORK AND COMPUTER SYSTEMS ADMINISTRATION (MCITP) SPECIALIZATION - AAS

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
ITMT 2301 Windows Server 2008: Network Infrastructure Configuration						
ITSY 1342 Information Technology Security						
SECOND SEMESTER						
XXXX #3## Approved Business Elective						
ITMT 2351 Windows Server 2008: Server Administrator						
ITNW 1380 Cooperative Education - Computer Systems Networking and Telecommunications						
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	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ITMT 1371 Windows 7 Configuration						
SECOND SEMESTER						
ITMT 2302 Windows Server 2008 Active Directory Configuration						
ITMT #3## Network and Computer Systems Elective						
THIRD SEMESTER						
ITMT 2301 Windows Server 2008: Network Infrastructure Configuration						
ITMT 2351 Windows Server 2008: Server Administrator						

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

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITNW 1425 Fundamentals of Networking Technologies <u>OR</u>						
ITCC 1401 Cisco Exploration 1-Network Fundamentals						
SECOND SEMESTER						
XXXX #3## Math/Natural Science/General Education Elective						
XXXX #3## Humanities/Fine Arts. Elective						
ITSY 1342 Information Technology Security						
ITSC 1316 LINUX Installation and Configuration <u>OR</u>						
ITMT 1371 Windows 7 Configuration						
THIRD SEMESTER						
COSC 1436 Programming Fundamentals I						
XXXX #3## Social/Behavioral Science/General Edu. Elective						
SECOND YEAR						
FIRST SEMESTER						
XXXX #3## Social/Behavioral Science, General Edu. Elective						
ITSC 1319 Internet/Web Page Development						
ITSY 2300 Operating System Security						
ITSC 1425 Personal Computer Hardware						
ITMT 2302 Windows Server 2008: Active Directory Configuration <u>OR</u>						
ITSC 1358 UNIX System Administration I						

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

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
SECOND SEMESTER						
ITSY 2330		Intrusion Detection				
ITMT 2301		Windows Server 2008 Network Infrastructure Configuration <i>OR</i>				
ITSC 1447		UNIX System Administration II				
ITSY 2343		Computer System Forensics				
ITNW 1380		Cooperative Education-Computer Systems Networking and Telecommunications <i>OR</i>				
ITNW 2335		Network Troubleshooting and Support				

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NETWORK SYSTEMS AND CYBER SECURITY - CERTIFICATE - LEVEL I

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

* Capstone Class

HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

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NETWORK SYSTEMS AND CYBER SECURITY: (INFORMATION ASSURANCE) - CERTIFICATE - LEVEL II

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

*Capstone class

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NETWORK SYSTEMS AND UNIFIED COMMUNICATION SPECIALIZATION - AAS

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITCC 1401 Cisco Exploration 1-Network Fundamentals						
SECOND SEMESTER						
XXXX #3## General Education Elective						
MATH 1324 Finite Mathematics with Applications						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
ITCC 1404 Cisco Exploration 2-Routing Protocols and Concepts						
ITSC 1316 Linux Installation and Configuration OR						
ITMT 1371 Windows 7 Configuration						
THIRD SEMESTER						
COSC 1436 Programming Fundamentals I						
SECOND YEAR						
FIRST SEMESTER						
SOCI 1301 Introduction to Sociology						
ITSC 1319 Internet/Web Page Development						
ITCC 2408 Cisco Exploration 3-LAN Switching and Wireless						
ITCC 1408 Introduction to Voice over Internet Protocol (VoIP)						
ITMT 2302 Windows Server 2008 Active Directory Configuration OR						
ITSC 1358 UNIX System Administration I						

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NETWORK SYSTEMS AND UNIFIED COMMUNICATION SPECIALIZATION - AAS

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
SECOND SEMESTER						
ITCC 2359 Advanced Voice Over Internet Protocol (VoIP)						
ITCC 2410 Cisco Exploration 4-Accessing the WAN						
ITNW 1380 Cooperative Education-Computer Systems Networking and Telecommunications** <i>OR</i>						
ITNW 2335 Network Troubleshooting and Support**						

**The capstone course is ITNW 1380 or ITNW 2335

HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

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NETWORK SYSTEMS AND UNIFIED COMMUNICATION - (CISCO) CERTIFICATE - LEVEL I

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

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

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITNW 1425 Fundamentals of Networking Technologies						
SECOND SEMESTER						
MATH 1324 Finite Mathematics with Applications						
COSC 1436 Programming Fundamentals I						
ITSC 1316 Linux Installation and Configuration						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
THIRD SEMESTER (SUMMER)						
XXXX #3## Social/Behavioral Science Elective						
SECOND YEAR						
FIRST SEMESTER						
ITSC 1342 Shell Programming						
ITSC 1358 Unix System Administration I						
ITSC 1425 Personal Computer Hardware						
XXXX #3## General Education Elective						
SOCI 1301 Introduction to Sociology						
SECOND SEMESTER						
XXXX #3## Approved Business Elective*						
ITNW 2432 UNIX Network Integration						
ITSC 1447 UNIX System Administration II						
ITNW 1380 Cooperative Education - Computer Systems Networking and Telecommunications <i>OR</i>						
ITNW 2335 Network Troubleshooting and Support						

*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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NAME:	SS#:	DATE:
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DIGITAL GAMING AND SIMULATION FOR ARTISTS - AAS

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

The **capstone course is: GAME 2386 Internship.

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DIGITAL GAMING AND SIMULATION FOR ARTISTS - CERTIFICATE: LEVEL I

HCCS Course Requirement	Transfer / Substitution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
	Institution	Course				
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
GAME 1212 Game Theory						
GAME 1306 Design and Creation of Games						
ARTC 1302 Digital Imaging I						
GAME 1336 Introduction to 3D Game Modeling						
ARTC 1309 Basic Illustration						
SECOND SEMESTER						
GAME 1314 Character Sculpting						
GAME 1334 Video Game Art I						

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

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 8/15/13-8/14/14

DIGITAL GAMING AND SIMULATION FOR PROGRAMMERS - AAS

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

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

___ FA ___ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 8/15/13-8/14/14

DIGITAL GAMING AND SIMULATION FOR PROGRAMMERS - CERTIFICATE: LEVEL II

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

Updated:
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**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
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GEOGRAPHIC INFORMATION SCIENCE - AAS

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.				<i>This AAS degree will be deactivated as of September 1, 2011. New students will not be admitted into the program.</i>		
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
DFTG 1305 Technical Drafting						
ITSC 1301 Introduction to Computers						
GISC 1411 Introduction to GIS						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
COSC 1436 Programming Fundamentals I						
DFTG 1309 BASIC Computer-Aided Drafting						
GISC 1401 Cartography and Geography in GIS/GPS						
GISC 1421 Introduction to Raster-Based GIS						
SECOND YEAR						
FIRST SEMESTER						
ITSE 1346 Database Theory and Design OR						
ITSE 1345 Introduction to Oracle SQL						
GEOL 1403 Physical Geology						
GISC 1491 Special Topics in Cartography						
GISC 2401 Data Acquisition and Analysis in GIS						
ETWR 2301 Technical Writing <u>OR</u>						
ENGL 2311 Tech. & Ind. Correspondence & Report Writing						
SECOND SEMESTER						
GISC 2411 Geographic Info. Systems (GIS) Applications						
XXXX #3## Department Appr. Computer Science* <u>OR</u>						
XXXX #3## Graphic Design Elective*						
XXXX #3## Humanities/Fine Arts Elective						
XXXX #3## Social/Behavioral Science Elective**						
GISC 2380 Cooperative Education- Cartography <u>OR</u>						
GISC 2364 Practicum (or Field Experience) Cartography						

*Department Approved Computer Science OR Graphic Design Elective- (Choose 1) ITSE 1432, Intro to Visual Basic NET Programming; ITSE 1345,Intro to Oracle/SQL; COSC 1437, Programming Fundamentals II; ARTC 1305, BASIC Graphic Design

**Social/Behavioral Science Elective-(Choose 1) The following courses are recommended because they also meet the Required Academic Core at all Texas public higher educational institutions.
 ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1300, 1303; GOVT 2304; PSYC 2301; SOCI 1301, 1306, 2301, 2336; TECA 1354

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

NAME:

SS#:

DATE:

COLLEGE:

COUNSELOR/ADVISOR:

CATALOG YEAR: 8/15/13-8/14/14

GEOGRAPHIC INFORMATION SCIENCE - ANALYST - CERTIFICATE

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

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

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GEOGRAPHIC INFORMATION SCIENCE - GIS TECHNICIAN - CERTIFICATE

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

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

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 8/15/13-8/14/14

GEOGRAPHIC INFORMATION SCIENCE - MARKETABLE SKILLS ACHIEVEMENT AWARD

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