



COE – DIGITAL & INFORMATION TECHNOLOGY PROGRAMS - CATALOG YEAR 2017 - 2018

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](#).

DIGITAL & INFORMATION TECHNOLOGY

COMPUTER SCIENCE

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

COMPUTER PROGRAMMING

Applications Development - Microsoft C# Specialization - AAS	6-7
Applications Development - Microsoft C++ Specialization - AAS	8-9
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Mobile Application Developer - Certificate Level II.	13
SharePoint Administrator - Certificate Level II	14
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COMPUTER SYSTEMS, NETWORKING AND TELECOMMUNICATIONS

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Computer Systems Networking - Microsoft Server Administration - AAS	17-18
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**HOUSTON COMMUNITY COLLEGE SYSTEM
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER INFORMATION SYSTEMS - ASSOCIATE OF 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.									
SUGGESTED 2 YEAR PLAN									
FIRST YEAR									
FIRST SEMESTER - FALL									
EDUC 1300 Learning Framework	3								
ENGL 1301 Composition I	3								
MATH 1324 Mathematics for Business & Social Sciences	3								
BCIS 1405 Business Computer Applications <i>OR</i>									
BCIS 1305 Business Computer Applications	3								
A. HIST #3## American History Elective	3								
SEMESTER TOTAL	15								
SECOND SEMESTER - SPRING									
ENGL 1302 Composition II	3								
MATH 1325 Calculus for Business & Social Sciences	3								
COSC 1436 Programming Fundamentals I	4								
B. XXXX #3## Life & Physical Sciences Elective	3								
A. HIST #3## American History Elective	3								
SEMESTER TOTAL	16								
SECOND YEAR									
FIRST SEMESTER - FALL									
MATH 1342 Elementary Statistical Methods	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	3								
XXXX #3## Creative Arts Elective	3								
C. SEMESTER TOTAL	16								

(Continued on next page)

*** SEE NOTES**

HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

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COMPUTER INFORMATION SYSTEMS - ASSOCIATE OF ARTS

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									
ACCT 2301 Principles of Financial Accounting	3								
COSC 2425 Computer Organization	4								
D. XXXX #3## Language, Philosophy, & Culture Elective	3								
GOVT 2306 Texas Government	3								
SEMESTER TOTAL	13								
PROGRAM TOTAL	60								
* SEE NOTES									

ADDITIONAL COMMENTS & NOTES:

- A. American History Elective *(May Choose from:)*.....(6 hrs)
 HIST 1301, 1302, 2301, 2327, 2328, 2381
- B. Life & Physical Sciences Elective *(May Choose from:)*(3 hrs)
 ANTH 2301; ASTR 1303, 1304, 1403, 1404;BIOL 1308, 1309, 1322, 1406, 1407, *(2301, 2302 Restricted to Engineering, Science, and Health Science Majors)*; CHEM 1305, 1405, 1411, 1412;
 GEOG 1301; GEOL 1305, 1345, 1347, 1403, 1404; PHYS 1305, 1401, 1402, 2325, 2326
- C. Creative Arts Elective *(May Choose from:)*.....(3 hrs)
 ARTS 1301, 1303, 1304; COMM 2366; DANC 2303; DRAM 1310, 2361, 2366; HUMA 1301, 1311; MUSI 1306,1310.
- D. Language, Philosophy, & Culture Elective *(May Choose from:)*(3 hrs)
 ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351; HIST 2311, 2312, 2321, 2322; HUMA 1305, 2319, 2323; PHIL 1301, 1304, 2306, 2307, 2316.

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).

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COMPUTER SCIENCE - ASSOCIATE OF 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.									
SUGGESTED 2 YEAR PLAN									
FIRST YEAR									
FIRST SEMESTER - FALL									
EDUC 1300 Learning Framework	3								
ENGL 1301 Composition I	3								
MATH 2412 Precalculus	4								
COSC 1436 Programming Fundamentals I	4								
HIST #3## American History Elective	3								
A. SEMESTER TOTAL	17								
SECOND SEMESTER - SPRING									
ENGL 1302 Composition II	3								
MATH 2413 Calculus I	4								
COSC 1437 Programming Fundamentals II	4								
HIST #3## American History Elective	3								
A. SEMESTER TOTAL	14								
SECOND YEAR									
FIRST SEMESTER - FALL									
MATH 2414 Calculus II	4								
PHYS 2325 University Physics I	3								
PHYS 2125 University Physics Laboratory I	1								
COSC 2436 Programming Fundamentals III	4								
GOVT 2305 Federal Government	3								
SEMESTER TOTAL	15								
(Continued on next page)									

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COMPUTER SCIENCE - ASSOCIATE OF SCIENCE

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									
SECOND SEMESTER - SPRING									
PHYS 2326 University Physics I	3								
PHYS 2126 University Physics Laboratory I	1								
COSC 2425 Computer Organization	4								
B. XXXX #3## Social & Behavioral Sciences Elective	3								
GOVT 2306 Texas Government	3								
SEMESTER TOTAL	14								
PROGRAM TOTAL	60								

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 *May Choose from:* HIST 1301, 1302, 2301, 2327, 2328, 2381.

B. Social & Behavioral Sciences *May Choose from:* ANTH 2346, 2351, ECON 2301, 2302, GEOG 1302, 1303, PSYC 2301, 2314, 2316, 2319, SOCI 1301, 1306, 2336, TECA 1354.

* Creative Arts *May Choose from:* ARTS 1301, 1303, 1304, COMM 2366, DANC 2303, DRAM 1310, 2361, 2366, ENGL 2307, 2308, HUMA 1301, 1311, MUSI 1301, 1306, 1310.

* Language, Philosophy & Culture *May Choose from:* ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, HIST 2311, 2312, 2321, 2322, HUMA 1305, 2319, 2323, PHIL 1301, 1304, 2306, 2307, 2316.

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).

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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - MICROSOFT C# 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									
EDUC 1300 Learning Framework ^A	3								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications <u>OR</u>									
COSC 1401 Introduction to Computing	4								
COSC 1436 Programming Fundamentals I (with C#)	4								
SEMESTER TOTAL	17								
SECOND SEMESTER									
MATH 1324 Mathematics for Business & Social Sciences	3								
COSC 1437 Programming Fundamentals II (with C#)	4								
ITSE 1346 Database Theory and Design <u>OR</u>									
ITSE 1345 Introduction to Oracle SQL	3								
XXXX #3## Humanities/Fine Arts Elective ^B	3								
SEMESTER TOTAL	13								
THIRD SEMESTER									
XXXX #3## Social/Behavioral Sciences Elective ^C	3								
SEMESTER TOTAL	3								
SECOND YEAR									
FIRST SEMESTER									
ITSE 1456 Extensible Markup Language (XML)	4								
ITSE 2402 Intermediate Web Programming <u>OR</u>									
ITSE 2471 Mobile Application Programming I	4								
INEW 1340 ASP.NET Programming	3								
XXXX #3## Program Approved Business Elective ^D	3								
SEMESTER TOTAL	14								

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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - MICROSOFT C# SPECIALIZATION - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
<i>(Continued from Page 1)</i>									
SECOND SEMESTER									
XXXX #3## General Education Elective ^E	3								
ITSE 2453 Advanced C# Programming	4								
ITSE 1380 Cooperative Education - Computer Programming/Programmer, General <i>OR</i>									
INEW 2332 Comprehensive Software Project: Coding, Testing, and Implementation [#]	3								
XXXX #3## Program Approved Business Elective ^D	3								
SEMESTER TOTAL	13								
PROGRAM TOTAL	60								
#CAPSTONE COURSE									

- A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. Humanities/Fine Arts:** *May choose from* – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. Social/Behavioral Sciences:** *May choose from* – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. Program Approved Business Electives:** *May choose from* – **ACCT** 2301, 2302, **BUSG** 1301, 2305, 2317, **BMGT** 1301, 1303, 1325, **ECON** 1301, 2301, 2302, **HRPO** 1311, 2307.
- E. General Education:** *May choose from* – **ANTH** 2301 (*with or without 2101 = lab*), 2302, 2346, 2351, **ARTS** 1301, 1303, 1304, **ASTR** 1303, 1304, 1403, 1404, **BIOL** 1308, 1309, 1322, 1406, 1407, (*2301, 2302 – restricted to Engineering, Science, and Health Sciences majors*), **CHEM** 1305, 1405, 1411, 1412, **COMM** 2366, **COSC** 1436, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ECON** 1301, 2301, 2302, **EDUC** 1300, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **GEOG** 1301, 1302, 1303, **GEOL** 1305, 1345, 1347, 1403, 1404, **GOVT** 2305, 2306, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MATH** 1314, 1316, 1324, 1325, 1332, 1342, 1350, 2318, 2320, 2412, 2413, 2414, 2415, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, **PHYS** 1305, 1401, 1402, 2325 (*with or without 2125 = lab*), 2326 (*with or without 2126 = lab*), **PSYC** 2301, 2314, 2316, 2317, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).

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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - MICROSOFT C++ 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									
EDUC 1300 Learning Framework ^A	3								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications <i>OR</i>									
COSC 1401 Introduction to Computing	4								
COSC 1436 Programming Fundamentals I - C++)	4								
SEMESTER TOTAL	17								
SECOND SEMESTER									
MATH 1324 Mathematics for Business & Social Sciences	3								
COSC 1437 Programming Fundamentals II - C++	4								
ITSE 1346 Database Theory and Design <i>OR</i>									
ITSE 1345 Introduction to Oracle SQL	3								
XXXX #3## Humanities/Fine Arts Elective ^B	3								
SEMESTER TOTAL	13								
THIRD SEMESTER									
XXXX #3## Social/Behavioral Sciences Elective ^C	3								
SEMESTER TOTAL	3								
SECOND YEAR									
FIRST SEMESTER									
ITSE 1456 Extensible Markup Language	4								
COSC 2425 Computer Organization and Machine Language	4								
COSC 2436 Programming Fundamentals III - C++	4								
XXXX #3## Program Approved Business Elective ^D	3								
SEMESTER TOTAL	15								

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

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
(Continued from Page 1)									
SECOND SEMESTER									
ITSE 2343 Advanced Mobile Programming	3								
ITSE 1380 Cooperative Education - Computer Programming/Programmer, General * OR									
INEW 2332 Comprehensive Software Project: Coding, Testing, and Implementation #	3								
XXXX #3## General Education Elective	3								
XXXX #3## Program Approved Business Elective D	3								
SEMESTER TOTAL	12								
PROGRAM TOTAL	60								
# CAPSTONE COURSE									

- A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. Program Approved Business Electives: *May choose from*** – **ACCT** 2301, 2302, **BUSG** 1301, 2305, 2317, **BMGT** 1301, 1303, 1325, **ECON** 1301, 2301, 2302, **HRPO** 1311, 2307.
- E. General Education: *May choose from*** – **ANTH** 2301 (*with or without 2101 = lab*), 2302, 2346, 2351, **ARTS** 1301, 1303, 1304, **ASTR** 1303, 1304, 1403, 1404, **BIOL** 1308, 1309, 1322, 1406, 1407, (*2301, 2302 – restricted to Engineering, Science, and Health Sciences majors*), **CHEM** 1305, 1405, 1411, 1412, **COMM** 2366, **COSC** 1436, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ECON** 1301, 2301, 2302, **EDUC** 1300, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **GEOG** 1301, 1302, 1303, **GEOL** 1305, 1345, 1347, 1403, 1404, **GOVT** 2305, 2306, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MATH** 1314, 1316, 1324, 1325, 1332, 1342, 1350, 2318, 2320, 2412, 2413, 2414, 2415, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, **PHYS** 1305, 1401, 1402, 2325 (*with or without 2125 = lab*), 2326 (*with or without 2126 = lab*), **PSYC** 2301, 2314, 2316, 2317, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).

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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - JAVA 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									
EDUC 1300 Learning Framework ^A	3								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
BCIS 1405 Business Computer Applications	4								
COSC 1436 Programming Fundamentals I (with Java)	4								
SEMESTER TOTAL	17								
SECOND SEMESTER									
MATH 1324 Mathematics for Business & Social Sciences	3								
COSC 1437 Programming Fundamentals II (with Java)	4								
ITSE 1346 Database Theory and Design <i>OR</i>									
ITSE 1345 Introduction to Oracle SQL	3								
XXXX #2## Elective ^B	2								
SEMESTER TOTAL	12								
THIRD SEMESTER									
XXXX #3## Humanities/Fine Arts Elective ^C	3								
SEMESTER TOTAL	12								
SECOND YEAR									
FIRST SEMESTER									
ITSE 1456 Extensible Markup Language (XML)	4								
COSC 2436 Programming Fundamentals III (with Java)	4								
INEW 2434 Advanced Web Programming	4								
XXXX #3## Program Approved Business Elective ^E	3								
SEMESTER TOTAL	15								

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COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - JAVA SPECIALIZATION - AAS

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 SEMESTER									
INEW 2438 Advanced Java Programming	4								
XXXX #3## Social/Behavioral Sciences Elective ^C	3								
ITSE 1380 Cooperative Education - Computer Programming/Programmer, General [#] <i>OR</i>									
INEW 2332 Comprehensive Software Project: Coding, Testing, and Implementation [#]	3								
XXXX #3## Program Approved Business Elective ^E	3								
SEMESTER TOTAL	13								
PROGRAM TOTAL	60								
#CAPSTONE COURSE									

- A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. Elective: *May choose* – Any course or combination of 1 hr courses to fulfill this requirement.**
- C. Humanities/Fine Arts: *May choose from* – ARTS 1301, 1303, 1304, COMM 2366, DANC 2303, DRAM 1310, 2316, 2366, ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, HIST 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, HUMA 1301, 1305, 1311, 2319, 2323, MUSI 1306, 1310, PHIL 1301, 1304, 2306, 2307, 2316, World Languages (ARAB 1411, 1412, CHIN 1411, 1412, FREN 1411, 1412, GERM 1411, 1412, JAPN 1411, 1412, KORE 1411, 1412, SPAN 1411, 1412).**
- D. Social/Behavioral Sciences: *May choose from* – ANTH 2346, 2351, ECON 1301, 2301, 2302, EDUC 1300, GEOG 1302, 1303, GOVT 2305, 2306, PSYC 2301, 2314, 2316, 2319, SOCI 1301, 1306, 2301, 2336, TECA 1354.**
- E. Program Approved Business Electives: *May choose from* – ACCT 2301, 2302, BUSG 1301, 2305, 2317, BMGT 1301, 1303, 1325, ECON 1301, 2301, 2302, HRPO 1311, 2307.**

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NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER PROGRAMMING - DATABASE ADMINISTRATOR - 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 YEAR									
FIRST SEMESTER									
EDUC 1300 Learning Framework ^A	3								
ITSC 1309 Integrated Software Applications I <u>OR</u>									
BCIS 1405 Business Computer Applications	3								
COSC 1436 Programming Fundamentals I	4								
MATH 1314 College Algebra	3								
SEMESTER TOTAL	13								
SECOND SEMESTER									
ITSC 1307 UNIX Operating System I <u>OR</u>									
ITMT 1370 Windows Client OS	3								
ITSE 1345 Introduction to Oracle SQL	3								
ITSE 1456 Extensible Markup Language (XML)	4								
SEMESTER TOTAL	10								
THIRD SEMESTER									
ITSE 2456 Oracle Database Administration I <u>OR</u>									
ITMT 2403 Administering a Microsoft SQL Server Database	4								
SEMESTER TOTAL	4								
SECOND YEAR									
FIRST SEMESTER									
ITSE 2458 Oracle Database Administration II [#] <u>OR</u>									
ITSE 2333 Implementing a Database on Microsoft SQL Server [#]	4								
SEMESTER TOTAL	4								
PROGRAM TOTAL	31								
[#] CAPSTONE COURSE									

A. Student Success Course: Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER PROGRAMMING - MOBILE APPLICATION DEVELOPER - 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 YEAR									
FIRST SEMESTER									
EDUC 1300 Learning Framework ^A	3								
ITSC 1309 Integrated Software Applications I <u>OR</u>									
BCIS 1405 Business Computer Applications	3								
COSC 1436 Programming Fundamentals I	4								
MATH 1314 College Algebra	3								
SEMESTER TOTAL	13								
SECOND SEMESTER									
COSC 1437 Programming Fundamentals II	4								
ITSE 1346 Database Theory and Design <u>OR</u>									
ITSE 1345 Introduction to Oracle SQL	3								
ITSE 2471 Mobile Application Programming I	4								
SEMESTER TOTAL	11								
SECOND YEAR									
FIRST SEMESTER									
ITSE 2402 Intermediate Web Programming	4								
ITSE 2472 Mobile Application Programming II [#]	4								
SEMESTER TOTAL	4								
PROGRAM TOTAL	32								
[#] CAPSTONE COURSE									

A. Student Success Course: Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER PROGRAMMING - SHAREPOINT ADMINISTRATOR - CERTIFICATE LEVEL II

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									
EDUC 1300 Learning Framework ^A	3								
COSC 1436 Programming Fundamentals I	4								
ITSC 1319 Internet/Web Page Development	3								
MATH 1314 College Algebra	3								
SEMESTER TOTAL	13								
SECOND SEMESTER									
INEW 2475 SharePoint Administration I	4								
ITSE 1346 Database Theory and Design <u>OR</u>									
ITSE 1345 Introduction to Oracle SQL	3								
ITSE 2402 Intermediate Web Programming	4								
SEMESTER TOTAL	11								
SECOND YEAR									
FIRST SEMESTER									
INEW 1340 ASP.NET Programming	3								
INEW 2476 SharePoint Administration II [#]	4								
SEMESTER TOTAL	7								
PROGRAM TOTAL	31								
# CAPSTONE COURSE									

A. Student Success Course: Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER PROGRAMMING - WEB APPLICATION DEVELOPER - CERTIFICATE LEVEL II

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									
EDUC 1300 Learning Framework ^A	3								
COSC 1436 Programming Fundamentals I	4								
ITSC 1319 Internet/Web Page Development	3								
MATH 1314 College Algebra	3								
SEMESTER TOTAL	13								
SECOND SEMESTER									
ITSE 2402 Intermediate Web Programming	4								
COSC 1437 Programming Fundamentals II	4								
ITSC 1309 Integrated Software Applications I <i>OR</i>									
BCIS 1405 Business Computer Applications	3								
ITSC 1307 UNIX Operating System I <i>OR</i>									
ITMT 1370 Windows Client OS	3								
SEMESTER TOTAL	14								
SECOND YEAR									
FIRST SEMESTER									
ITSE 1346 Database Theory and Design [#] <i>OR</i>									
ITSE 1345 Introduction to Oracle SQL [#]	3								
SEMESTER TOTAL	3								
PROGRAM TOTAL	30								
# CAPSTONE COURSE									

A. Student Success Course: Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - INFORMATION TECHNOLOGY CORE - 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									
ITSC 1301 Introduction to Computers	3								
ITSC 1425 Personal Computer Hardware	4								
ITSC 1321 Intermediate PC Operating Systems	3								
SEMESTER TOTAL	10								
SECOND SEMESTER									
ITNW 1425 Fundamentals of Networking Technologies	4								
ITNW 1313 Computer Virtualization	3								
ITSY 1342 Information Technology Security	3								
ITSC 2339 Personal Computer Help Desk Support #	3								
SEMESTER TOTAL	13								
PROGRAM TOTAL	23								
# CAPSTONE COURSE									

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - MICROSOFT SERVER ADMINISTRATION - 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									
EDUC 1300 Learning Framework ^A	3								
ITSC 1309 Integrated Software Applications I OR	3								
BCIS 1405 Computer Business Applications									
MATH 1314 College Algebra	3								
ITSC 1425 Personal Computer Hardware	4								
ITMT 1370 Windows Client Operating System	3								
SEMESTER TOTAL	16								
SECOND SEMESTER									
ENGL 1301 Composition I	3								
ITSY 1342 Information Technology Security	3								
ITMT 2371 Installing and Configuring Windows Server 2012	3								
ITNW 1425 Fundamentals of Networking Technologies OR									
ITCC 1414 CCNA 1: Introduction to Networks	4								
SEMESTER TOTAL	13								
THIRD SEMESTER									
SPCH #3## SPCH Elective, SPCH 1311, 1321 or 1315	3								
ITSC 1319 Internet/Web Page Development	3								
SEMESTER TOTAL	6								
SECOND YEAR									
FIRST SEMESTER									
XXXX #3## Social/Behavioral Sciences Elective ^C	3								
ITNW 1313 Computer Virtualization	3								
ITMT 2372 Administering Windows Server 2012	3								
COSC 1436 Programming Fundamentals I	4								
SEMESTER TOTAL	13								

(Continued on Page 2)

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - MICROSOFT SERVER ADMINISTRATION - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
<i>(Continued from Page1)</i>									
SECOND SEMESTER									
XXXX #3## Humanities/Fine Arts Elective ^B	3								
ITMT 2373 Configuring Advanced Windows Server 2012	3								
ITSY 2330 Intrusion Detection	3								
ITNW 1380 Cooperative Education - Computer Systems Networking and Telecommunications [#] <i>OR</i>									
ITNW 2335 Network Troubleshooting and Support [#]	3								
SEMESTER TOTAL	12								
PROGRAM TOTAL	60								
# CAPSTONE COURSE									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Humanities/Fine Arts:** *May choose from* – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. **Social/Behavioral Sciences:** *May choose from* – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - MICROSOFT SERVER ADMINISTRATION - 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									
EDUC 1300 Learning Framework ^A	3								
ITNW 1358 Network+ <i>OR</i>									
ITNW 1425 Fundamentals of Networking Technologies <i>OR</i>									
ITCC 1414 CCNA 1: Introduction to Networks	4								
ITMT 1370 Windows Client Operating System	3								
SEMESTER TOTAL	9								
SECOND SEMESTER									
ITMT 2371 Installing and Configuring Windows Server 2012	3								
ITSY 1342 Information Technology Security	3								
ITSC 1425 Personal Computer Hardware	4								
SEMESTER TOTAL	10								
THIRD SEMESTER									
ITSC 1319 Internet/Web Page Development	3								
SEMESTER TOTAL	3								
SECOND YEAR									
FIRST SEMESTER									
ITNW 1313 Computer Virtualization	3								
ITSY 2330 Intrusion Detection	3								
ITMT 2372 Administering Windows Server 2012 [#]	3								
SEMESTER TOTAL	9								
PROGRAM TOTAL	31								
# CAPSTONE COURSE									

A. Student Success Course: Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

Updated: 08/14/2015

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: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - MICROSOFT SERVER ADMINISTRATION - 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									
ITNW 1358 Network+ <i>OR</i>									
ITNW 1425 Fundamentals of Networking Technologies <i>OR</i>									
ITCC 1414 CCNA 1: Introduction to Networks	4								
ITMT 1370 Windows Client Operating System	3								
ITSC 1309 Integrated Software Applications I <i>OR</i>									
BCIS 1405 Computer Business Applications	3								
SEMESTER TOTAL	9								
SECOND SEMESTER									
ITMT 2371 Installing and Configuring Windows Server 2012 [#]	3								
ITSY 1342 Information Technology Security	3								
ITSC 1425 Personal Computer Hardware	4								
SEMESTER TOTAL	10								
PROGRAM TOTAL	19								
# CAPSTONE COURSE									

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

___ FA ___ VA

NAME:		SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18	

COMPUTER SYSTEMS NETWORKING - CYBER SECURITY - 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									
EDUC 1300 Learning Framework ^A	3								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
ITSC 1309 Integrated Software Applications I <u>OR</u>									
BCIS 1405 Computer Business Applications	3								
ITSC 1316 Linux Installation and Configuration <u>OR</u>									
ITSC 1307 UNIX Operating System I <u>OR</u>									
ITMT 1370 Windows Client Operating System	3								
SEMESTER TOTAL	15								
SECOND SEMESTER									
ITNW 1358 Network+ <u>OR</u>									
ITNW 1425 Fundamentals of Networking Technologies <u>OR</u>									
ITCC 1414 CCNA 1: Introduction to Networks	4								
ITSC 1458 UNIX System Administration I	4								
ITSY 1342 Information Technology Security	3								
ITSC 1319 Internet/Web Page Development	3								
SEMESTER TOTAL	13								
THIRD SEMESTER									
ITNW 1313 Computer Virtualization	3								
XXXX #3## Humanities/Fine Arts Elective ^B	3								
SEMESTER TOTAL	6								
SECOND YEAR									
FIRST SEMESTER									
XXXX #3## Social/Behavioral Sciences Elective ^C	3								
ITSY 2330 Intrusion Detection	3								
ITSY 2401 Firewalls and Network Security	4								

(Continued on page 2)

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - CYBER SECURITY - AAS

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)									
ITMT 2371 Installing and Configuring Windows Server 2012	3								
SEMESTER TOTAL	13								
SECOND SEMESTER									
XXXX #3## General Education Elective ^D	3								
ITMT 2372 Administering Windows Server 2012	3								
ITNW 1380 Cooperative Education - Computer Systems Networking and Telecommunications # OR									
ITNW 2335 Network Troubleshooting and Support #	3								
ITSY 2443 Computer System Forensics	4								
SEMESTER TOTAL	13								
PROGRAM TOTAL	60								
# CAPSTONE COURSE									

- A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. General Education: *May choose from*** – **ANTH** 2301 (*with or without 2101 = lab*), 2302, 2346, 2351, **ARTS** 1301, 1303, 1304, **ASTR** 1303, 1304, 1403, 1404, **BIOL** 1308, 1309, 1322, 1406, 1407, (*2301, 2302 – restricted to Engineering, Science, and Health Sciences majors*), **CHEM** 1305, 1405, 1411, 1412, **COMM** 2366, **COSC** 1436, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ECON** 1301, 2301, 2302, **EDUC** 1300, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **GEOG** 1301, 1302, 1303, **GEOL** 1305, 1345, 1347, 1403, 1404, **GOVT** 2305, 2306, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MATH** 1314, 1316, 1324, 1325, 1332, 1342, 1350, 2318, 2320, 2412, 2413, 2414, 2415, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, **PHYS** 1305, 1401, 1402, 2325 (*with or without 2125 = lab*), 2326 (*with or without 2126 = lab*), **PSYC** 2301, 2314, 2316, 2317, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).

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: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - CYBER SECURITY - 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									
ITSC 1301 Introduction to Computers	3								
ITNW 1425 Fundamentals of Networking Technologies	4								
SEMESTER TOTAL	7								
SECOND SEMESTER									
ITSY 1342 Information Technology Security #	3								
ITSC 1321 Intermediate PC Operating Systems	3								
ITNW 1313 Computer Virtualization	3								
SEMESTER TOTAL	9								
PROGRAM TOTAL	16								
# CAPSTONE COURSE									

**Students may sub ITCC 1401 with: ITNW 1425 or ITNW 1358

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - CYBER SECURITY - CERTIFICATE - LEVEL II

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
FIRST YEAR									
FIRST SEMESTER									
EDUC 1300 Learning Framework ^A	3								
ITSC 1301 Introduction to Computers	3								
ITCC 1414 CCNA 1: Introduction to Networks	4								
SEMESTER TOTAL	10								
SECOND SEMESTER									
ITSY 1342 Information Technology Security	3								
ITSC 1321 Intermediate PC Operating Systems	3								
ITNW 1313 Computer Virtualization	3								
SEMESTER TOTAL	9								
THIRD SEMESTER									
ITSC 1307 UNIX Operating System I	3								
SEMESTER TOTAL	3								
SECOND YEAR									
FIRST SEMESTER									
ITSY 2401 Firewalls and Network Security	4								
ITSY 2330 Intrusion Detection	3								
SEMESTER TOTAL	7								
SECOND SEMESTER									
ITSC 1458 UNIX System Administration I	4								
ITSY 2345 Network Defense and Countermeasures [#]	3								
SEMESTER TOTAL	7								
PROGRAM TOTAL	36								
[#] CAPSTONE COURSE									

- A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B.** Students may sub ITCC 1401 with: **ITNW 1425** Fundamentals of Networking Technologies.

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - CISCO 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									
EDUC 1300 Learning Framework ^A	3								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
ITSC 1309 Integrated Software Applications I <u>OR</u>									
BCIS 1405 Computer Business Applications	3								
ITSC 1316 Linux Installation and Configuration <u>OR</u>									
ITSC 1307 UNIX Operating System I <u>OR</u>									
ITMT 1370 Windows Client Operating System	3								
SEMESTER TOTAL	15								
SECOND SEMESTER									
ITSC 1319 Internet/Web Page Development	3								
ITSC 1425 Personal Computer Hardware	4								
ITCC 1414 CCNA 1: Introduction to Networks	4								
ITSY 1342 Information Technology Security	3								
SEMESTER TOTAL	14								
THIRD SEMESTER									
ITCC 1440 CCNA 2: Routing and Switching Essentials	4								
XXXX #3## Humanities/Fine Arts Elective ^B	3								
SEMESTER TOTAL	7								
SECOND YEAR									
FIRST SEMESTER									
XXXX #3## Social/Behavioral Sciences Elective ^C	3								
ITCC 2412 CCNA 3: Scaling Networks	4								
XXXX #3## General Education Elective ^D	3								
ITSC 1358 UNIX System Administration I	3								
SEMESTER TOTAL	13								

(Continued on page 2)

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: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - CISCO SPECIALIZATION - AAS

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)	Comment/Disapproval			Signature	
<i>(Continued from page 1)</i>									
SECOND SEMESTER									
ITCC 2441 CCNA Security	4								
ITCC 2413 CCNA 4: Connecting Networks	4								
ITNW 1380 Cooperative Education - Computer Systems Networking and Telecommunications [#] <i>OR</i>									
ITNW 2335 Network Troubleshooting and Support [#]	3								
SEMESTER TOTAL	11								
PROGRAM TOTAL	60								
# CAPSTONE COURSE									

- A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. General Education: *May choose from*** – **ANTH** 2301 (*with or without 2101 = lab*), 2302, 2346, 2351, **ARTS** 1301, 1303, 1304, **ASTR** 1303, 1304, 1403, 1404, **BIOL** 1308, 1309, 1322, 1406, 1407, (*2301, 2302 – restricted to Engineering, Science, and Health Sciences majors*), **CHEM** 1305, 1405, 1411, 1412, **COMM** 2366, **COSC** 1436, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ECON** 1301, 2301, 2302, **EDUC** 1300, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **GEOG** 1301, 1302, 1303, **GEOL** 1305, 1345, 1347, 1403, 1404, **GOVT** 2305, 2306, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MATH** 1314, 1316, 1324, 1325, 1332, 1342, 1350, 2318, 2320, 2412, 2413, 2414, 2415, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, **PHYS** 1305, 1401, 1402, 2325 (*with or without 2125 = lab*), 2326 (*with or without 2126 = lab*), **PSYC** 2301, 2314, 2316, 2317, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - CERTIFIED CISCO NETWORK PROFESSIONAL (CCNP) - 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									
ITCC 1414 CCNA 1: Introduction to Networks	4								
SEMESTER TOTAL	4								
SECOND SEMESTER									
ITCC 1440 CCNA 2: Routing and Switching Essentials	4								
ITCC 2412 CCNA 3: Scaling Networks	4								
SEMESTER TOTAL	8								
THIRD SEMESTER									
ITCC 2413 CCNA 4: Connecting Networks	4								
SEMESTER TOTAL	4								
SECOND YEAR									
FIRST SEMESTER									
ITCC 2454 CCNP Routing-Implementing IP Routing	4								
ITCC 2455 CCNP Switch-Implementing IP Switching	4								
SEMESTER TOTAL	8								
SECOND SEMESTER									
ITCC 2456 CCNP TSHOOT-Maintaining and Troubleshooting IP Networks #	4								
ITSC 1307 UNIX Operating System I	3								
SEMESTER TOTAL	7								
PROGRAM TOTAL	31								
# CAPSTONE COURSE									

HOUSTON COMMUNITY COLLEGE SYSTEM
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - CERTIFIED CISCO NETWORK ASSOCIATE (CCNA) - 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									
ITCC 1414 CCNA 1: Introduction to Networks	4								
SEMESTER TOTAL	4								
SECOND SEMESTER									
ITCC 1440 CCNA 2: Routing and Switching Essentials	4								
ITCC 2412 CCNA 3: Scaling Networks	4								
SEMESTER TOTAL	8								
THIRD SEMESTER									
ITCC 2413 CCNA 4: Connecting Networks #	4								
SEMESTER TOTAL	4								
PROGRAM TOTAL	16								
# CAPSTONE COURSE									

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - NETWORK AND COMPUTER SYSTEMS HELP DESK - 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									
EDUC 1300 Learning Framework ^A	3								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
ITNW 1425 Fundamentals of Networking Technologies	4								
SEMESTER TOTAL	13								
SECOND SEMESTER									
XXXX #3## Social/Behavioral Sciences Elective ^C	3								
ITNW 1492 Special Topics in Computer Systems Networking and Telecommunications	4								
ITSC 2339 Personal Computer Help Desk Support	3								
XXXX #3## Humanities/Fine Arts Elective ^B	3								
ITNW 1308 Implementing and Supporting Client Operating Systems	3								
SEMESTER TOTAL	16								
THIRD SEMESTER									
ITSY 1342 Information Technology Security	3								
ITSC 1307 UNIX Operating System I	3								
SEMESTER TOTAL	6								
SECOND YEAR									
FIRST SEMESTER									
XXXX #3## General Education Elective ^D	3								
ITSC 1319 Internet/Web Page Development	3								
ITMT 2302 Windows Server 2008 Active Directory Configuration	3								
ITSC 1358 UNIX System Administration I	3								
SEMESTER TOTAL	12								

(Continued on page 2)

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - NETWORK AND COMPUTER SYSTEMS HELP DESK - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
<i>(Continued from page 1)</i>									
SECOND SEMESTER									
ITNW 1313 Computer Virtualization	3								
ITNW 1392 Special Topics in Computer Systems Networking and Telecommunications	3								
ITMT 2301 Windows Server 2008 Network Infrastructure Configuration #	3								
ITSC 1447 UNIX System Administration II	4								
SEMESTER TOTAL	13								
PROGRAM TOTAL	60								
# CAPSTONE COURSE									

- A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. Humanities/Fine Arts:** *May choose from* – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. Social/Behavioral Sciences:** *May choose from* – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. General Education:** *May choose from* – **ANTH** 2301 (with or without 2101 = lab), 2302, 2346, 2351, **ARTS** 1301, 1303, 1304, **ASTR** 1303, 1304, 1403, 1404, **BIOL** 1308, 1309, 1322, 1406, 1407, (2301, 2302 – restricted to Engineering, Science, and Health Sciences majors), **CHEM** 1305, 1405, 1411, 1412, **COMM** 2366, **COSC** 1436, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ECON** 1301, 2301, 2302, **EDUC** 1300, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **GEOG** 1301, 1302, 1303, **GEOL** 1305, 1345, 1347, 1403, 1404, **GOVT** 2305, 2306, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MATH** 1314, 1316, 1324, 1325, 1332, 1342, 1350, 2318, 2320, 2412, 2413, 2414, 2415, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, **PHYS** 1305, 1401, 1402, 2325 (with or without 2125 = lab), 2326 (with or without 2126 = lab), **PSYC** 2301, 2314, 2316, 2317, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - HELP DESK - CERTIFICATE: LEVEL II

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
FIRST YEAR									
FIRST SEMESTER									
EDUC 1300 Learning Framework ^A	3								
ITNW 1313 Computer Virtualization	3								
ITNW 1358 Network+	3								
ITNW 1308 Implementing and Supporting Client Operating Systems	3								
SEMESTER TOTAL	12								
SECOND SEMESTER									
ITSC 1307 UNIX Operating System I	3								
ITSY 1342 Information Technology Security	3								
ITMT 2302 Windows Server 2008 Active Directory Configuration	3								
SEMESTER TOTAL	9								
SECOND YEAR									
FIRST SEMESTER									
ITSC 1358 UNIX System Administration I	3								
ITSC 1447 UNIX System Administration II [#]	4								
ITMT #3## Computer Systems and Networking Elective	3								
SEMESTER TOTAL	10								
PROGRAM TOTAL	31								
# CAPSTONE COURSE									

A. Student Success Course: Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

__ FA __ VA

NAME:		SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:		TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - HELP DESK - 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									
ITSC 1307 UNIX Operating System I	3								
ITNW 1358 Network+	3								
ITNW 1308 Implementing and Supporting Client Operating Systems	3								
SEMESTER TOTAL	9								
SECOND SEMESTER									
ITMT 2302 Windows Server 2008 Active Directory Configuration	3								
ITSY 1342 Information Technology Security	3								
ITSC 1358 UNIX System Administration I [#]	3								
ITNW 1313 Computer Virtualization	3								
SEMESTER TOTAL	12								
PROGRAM TOTAL	21								
# CAPSTONE COURSE									

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - LINUX SERVER ADMINISTRATOR - 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									
EDUC 1300 Learning Framework ^A	3								
ITSC 1309 Integrated Software Applications I <u>OR</u>									
BCIS 1405 Computer Business Applications	3								
MATH 1314 College Algebra	3								
ITSC 1316 Linux Installation and Configuration <u>OR</u>									
ITSC 1307 UNIX Operating System I	3								
SEMESTER TOTAL	12								
SECOND SEMESTER									
ENGL 1301 Composition I	3								
ITSC 1458 UNIX System Administration I	4								
ITNW 1358 Network+ <u>OR</u>									
ITNW 1425 Fundamentals of Networking Technologies <u>OR</u>									
ITCC 1414 CCNA 1: Introduction to Networks	4								
ITSY 1342 Information Technology Security	3								
SEMESTER TOTAL	12								
THIRD SEMESTER									
ITSC 1319 Internet/Web Page Development	3								
XXXX #3## Humanities/Fine Arts Elective ^B	3								
SEMESTER TOTAL	6								
SECOND YEAR									
FIRST SEMESTER									
XXXX #3## Social/Behavioral Sciences Elective ^C	3								
ITSC 1425 Personal Computer Hardware	4								
ITSC 1342 Shell Programming	3								
XXXX #3## General Education Elective ^D	3								

(Continued on page 2)

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - LINUX SERVER ADMINISTRATOR - AAS

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
<i>(Continued from page 1)</i>									
ITSC 1447 UNIX System Administration II	4								
SEMESTER TOTAL	16								
SECOND SEMESTER									
ITNW 1313 Computer Virtualization	3								
XXXX #3## Program Approved Business Elective ^E	3								
ITSY 2330 Intrusion Detection	3								
ITNW 2380 Cooperative Education - Computer Systems Networking and Telecommunications # <u>OR</u>									
ITNW 2432 UNIX Network Integration #	4								
SEMESTER TOTAL	12								
PROGRAM TOTAL	60								

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. **Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. **General Education: *May choose from*** – **ANTH** 2301 (*with or without 2101 = lab*), 2302, 2346, 2351, **ARTS** 1301, 1303, 1304, **ASTR** 1303, 1304, 1403, 1404, **BIOL** 1308, 1309, 1322, 1406, 1407, (*2301, 2302 – restricted to Engineering, Science, and Health Sciences majors*), **CHEM** 1305, 1405, 1411, 1412, **COMM** 2366, **COSC** 1436, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ECON** 1301, 2301, 2302, **EDUC** 1300, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **GEOG** 1301, 1302, 1303, **GEOL** 1305, 1345, 1347, 1403, 1404, **GOVT** 2305, 2306, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MATH** 1314, 1316, 1324, 1325, 1332, 1342, 1350, 2318, 2320, 2412, 2413, 2414, 2415, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, **PHYS** 1305, 1401, 1402, 2325 (*with or without 2125 = lab*), 2326 (*with or without 2126 = lab*), **PSYC** 2301, 2314, 2316, 2317, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- E. **Business Electives: *May choose from*** – **ACCT** 2301, 2302; **BMGT** 1301, 1325, 1327; **BUSG** 1301, 2305, 2317; **ECON** 1301; **HRPO** 1311, 2307; **MRKG** 1391 - Women's Entrepreneurship, **MRKG** 1391 - Marketing in Asia, **MRKG** 1391 - Sports and Entertainment, **MRKG** 2372; *Any 2300 ECON course.*

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - LINUX ADMINISTRATOR - 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									
EDUC 1300 Learning Framework ^A	3								
ITSC 1309 Integrated Software Applications I <i>OR</i>									
BCIS 1405 Computer Business Applications	3								
ITSC 1425 Personal Computer Hardware	4								
ITSC 1316 Linux Installation and Configuration <i>OR</i>									
ITSC 1307 UNIX Operating System I	3								
SEMESTER TOTAL	13								
SECOND SEMESTER									
ITSC 1458 UNIX System Administration I	4								
ITNW 1358 Network+ <i>OR</i>									
ITNW 1425 Fundamentals of Networking Technologies <i>OR</i>									
ITCC 1414 CCNA 1: Introduction to Networks	4								
ITSY 1342 Information Technology Security	3								
SEMESTER TOTAL	10								
THIRD SEMESTER									
ITSC 1319 Internet/Web Page Development	3								
SEMESTER TOTAL	3								
SECOND YEAR									
FIRST SEMESTER									
ITSC 2339 Personal Computer Help Desk Support	3								
ITSC 1447 UNIX System Administration II [#]	4								
ITNW 1313 Computer Virtualization	3								
SEMESTER TOTAL	10								
PROGRAM TOTAL	36								
[#] CAPSTONE COURSE									

A. Student Success Course: Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

COMPUTER SYSTEMS NETWORKING - LINUX SYSTEM ADMINISTRATION SPECIALIZATION - 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									
ITSC 1309 Integrated Software Applications I <i>OR</i>									
BCIS 1405 Computer Business Applications	3								
ITSC 1425 Personal Computer Hardware	4								
ITSC 1316 Linux Installation and Configuration <i>OR</i>									
ITSC 1307 UNIX Operating System I	3								
SEMESTER TOTAL	10								
SECOND SEMESTER									
ITSC 1458 UNIX System Administration I #	4								
ITNW 1358 Network+ <i>OR</i>									
ITNW 1425 Fundamentals of Networking Technologies <i>OR</i>									
ITCC 1414 CCNA 1: Introduction to Networks	4								
ITSY 1342 Information Technology Security	3								
SEMESTER TOTAL	10								
THIRD SEMESTER									
ITSC 1319 Internet/Web Page Development	3								
SEMESTER TOTAL	3								
PROGRAM TOTAL	23								
# CAPSTONE COURSE									

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

DIGITAL GAMING & SIMULATION FOR ARTISTS - 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									
EDUC 1300 Learning Framework ^A	3								
GAME 1306 Design and Creation of Games	3								
GAME 1378 Art for 2D Games	3								
GAME 1373 Introduction to Perspective Drawing	3								
GAME 1336 Introduction to 3D Game Modeling	3								
SEMESTER TOTAL	15								
SECOND SEMESTER									
ARTS 1303 Art History I <i>OR</i>									
ARTS 1304 Art History II	3								
GAME 1302 Interactive Storyboarding	3								
GAME 1375 Principles of Game Concept Art	3								
GAME 1304 Level Design	3								
GAME 2336 Lighting, Shading, and Texture	3								
SEMESTER TOTAL	15								
THIRD SEMESTER									
XXXX #3## Math/Natural Science Elective ^B	3								
XXXX #3## Social/Behavioral Sciences Elective ^C	3								
SEMESTER TOTAL	6								

(Continued on page 2)

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

DIGITAL GAMING & SIMULATION FOR ARTISTS - AAS

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)	Comment/Disapproval			Signature	
(Continued from page 1)									
SECOND YEAR									
FIRST SEMESTER									
GAME 1314 Character Sculpting	3								
GAME 2332 Project Development I	3								
GAME 1374 Introduction to 3D Game Animation	3								
GAME 2304 Level Design II	3								
SEMESTER TOTAL	12								
SECOND SEMESTER									
GAME 2374 3D Rigging for Games and Simulation	3								
GAME 2334 Project Development II #	3								
GAME 2308 Portfolio for Game Development	3								
PSYC 2301 General Psychology	3								
SEMESTER TOTAL	12								
PROGRAM TOTAL	60								
# CAPSTONE COURSE									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Math/Natural Science:** *May choose from* – **ANTH** 2301 (with or without 2101 = lab), 2302, **ASTR** 1303, 1304, 1403, 1404, **BIOL** 1308, 1309, 1322, 1406, 1407, (2301, 2302 – restricted to Engineering, Science, and Health Sciences majors), **CHEM** 1305, 1405, 1411, 1412, **COSC** 1436, **GEOG** 1301, **GEOL** 1305, 1345, 1347, 1403, 1404, **MATH** 1314, 1316, 1324, 1325, 1332, 1342, 1350, 2318, 2320, 2412, 2413, 2414, 2415, **PHYS** 1305, 1401, 1402, 2325 (with or without 2125= lab), 2326 (with or without 2126 = lab), **PSYC** 2317.
- C. **Social/Behavioral Sciences:** *May choose from* – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.

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

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NAME:	SID#:	TEL#:	EMAIL:	DATE:
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DIGITAL GAMING & 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									
EDUC 1300 Learning Framework ^A	3								
GAME 1306 Design and Creation of Games	3								
GAME 1378 Art for 2D Games	3								
GAME 1373 Introduction to Perspective Drawing	3								
GAME 1336 Introduction 3D Game Modeling	3								
SEMESTER TOTAL	15								
SECOND SEMESTER									
ARTS 1303 Art History I <i>OR</i>									
ARTS 1304 Art History II	3								
GAME 1302 Interactive Storyboarding	3								
GAME 1304 Level Design	3								
GAME 1375 Principles of Game Concept Art	3								
GAME 2336 Lighting, Shading, and Texture	3								
SEMESTER TOTAL	15								
SECOND YEAR									
FIRST SEMESTER									
GAME 1314 Character Sculpting	3								
GAME 1374 Introduction to 3D Game Animation	3								
GAME 2304 Level Design II	3								
GAME 2332 Project Development I [#]	3								
SEMESTER TOTAL	12								
PROGRAM TOTAL	42								
[#] CAPSTONE COURSE									

A. Student Success Course: Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

**HOUSTON COMMUNITY COLLEGE SYSTEM
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DIGITAL GAMING & 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									
EDUC 1300 Learning Framework ^A	3								
GAME 1306 Design and Creation of Games	3								
GAME 1378 Art for 2D Games	3								
GAME 1379 Introduction to Game Programming	3								
MATH 1314 College Algebra	3								
SEMESTER TOTAL	15								
SECOND SEMESTER									
XXXX #3## Humanities/Fine Arts Elective ^B	3								
GAME 1304 Level Design I	3								
GAME 1336 Introduction to 3D Game Modeling	3								
GAME 2347 Advanced Game Programming	3								
GAME 2302 Mathematical Applications for Game Development	3								
SEMESTER TOTAL	12								
THIRD SEMESTER									
GAME 2373 2D Game Programming	3								
XXXX #3## Social/Behavioral Sciences Elective ^C	3								
SEMESTER TOTAL	6								
SECOND YEAR									
FIRST SEMESTER									
GAME 2319 Game Engine	3								
GAME 2304 Level Design II	3								
GAME 2332 Project Development I	3								
GAME 2342 Game Development Using C++	3								
SEMESTER TOTAL	15								

(Continued on page 2)

**HOUSTON COMMUNITY COLLEGE SYSTEM
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DIGITAL GAMING & 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				
<i>(Continued from page 1)</i>									
SECOND SEMESTER									
ENGL 1301 Composition I	3								
GAME 2308 Portfolio for Game Development	3								
GAME 2334 Project Development II #	3								
GAME 2341 Game Scripting	3								
SEMESTER TOTAL	12								
PROGRAM TOTAL	60								
# CAPSTONE COURSE									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. **Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.

**HOUSTON COMMUNITY COLLEGE SYSTEM
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DIGITAL GAMING & 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									
EDUC 1300 Learning Framework ^A	3								
GAME 1306 Design and Creation of Games	3								
GAME 1378 Art for 2D Games	3								
GAME 1379 Introduction to Game Programming	3								
MATH 1314 College Algebra	3								
SEMESTER TOTAL	15								
SECOND SEMESTER									
GAME 1304 Level Design	3								
GAME 1336 Introduction to 3D Game Modeling	3								
GAME 2302 Mathematical Applications for Game Development	3								
GAME 2347 Advanced Game Programming	3								
SEMESTER TOTAL	12								
THIRD SEMESTER									
GAME 2373 2D Game Programming	3								
SEMESTER TOTAL	3								
SECOND YEAR									
FIRST SEMESTER									
GAME 2304 Level Design II	3								
GAME 2319 Game Engine	3								
GAME 2332 Project Development I [#]	3								
GAME 2342 Game Development Using C++	3								
SEMESTER TOTAL	15								
PROGRAM TOTAL	39								
[#] CAPSTONE COURSE									

A. Student Success Course: Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

**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 hr	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									
EDUC 1300 Learning Framework ^A	3								
GISC 1411 Introduction to GIS	4								
MATH 1314 College Algebra	3								
COSC 1436 Programming Fundamentals I <u>OR</u>									
ITSE 1402 Computer Programming	4								
SEMESTER TOTAL	14								
SECOND SEMESTER									
GISC 1401 Cartography and Geography in GIS/GPS	4								
GISC 1421 Introduction to Raster-Based GIS	4								
ITSE 1345 Introduction to Oracle SQL	3								
SEMESTER TOTAL	11								
THIRD SEMESTER									
GISC 2401 Data Acquisition and Analysis in Geographic Information Systems (GIS)	4								
GISC 2411 Geographic Info. Systems (GIS) Applications	4								
SEMESTER TOTAL	8								
SECOND YEAR									
FIRST SEMESTER									
GISC 2250 Scripting for Geographic Information Systems (GIS)	2								
GISC 2359 Web-Served Geographic Information Systems (GIS) [#]	3								
SEMESTER TOTAL	5								
PROGRAM TOTAL	38								
[#] CAPSTONE COURSE									

A. Student Success Course: Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

**HOUSTON COMMUNITY COLLEGE SYSTEM
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GEOGRAPHIC INFORMATION SCIENCE - TECHNICIAN - CERTIFICATE: LEVEL I

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
FIRST SEMESTER									
GISC 1411 Introduction to Geographic Information Systems (GIS)	4								
ITSE 1402 Computer Programming	4								
SEMESTER TOTAL	8								
SECOND SEMESTER									
GISC 1401 Cartography and Geography in Geographical Information Systems (GIS) and Global Positioning Systems #	4								
GISC 1421 Introduction to Raster-Based GIS	4								
ITSE 1345 Introduction to Oracle SQL	3								
SEMESTER TOTAL	11								
PROGRAM TOTAL	19								
# CAPSTONE COURSE									