

Information Technologies Programs

Computer Programming

- 2 Applications Development Using Microsoft VB Net-AAS
- 3 Microsoft VB Net-Marketable Skills Achievement Award
- 4 Applications Development Using Microsoft C#-AAS
- 5 Microsoft C#-Marketable Skills Achievement Award
- 6 Applications Development Using Java-AAS
- 7 Java - Marketable Skills Achievement Award
- 8 Oracle Development-AAS
- 9 Oracle Development-Marketable Skills Achievement Award

Computer Science Software

- 10 Oracle Database Administration-AAS
- 11 Oracle Database Administration-Marketable Skills Achievement Award

Computer Systems, Networking and Telecommunications

- 12 Networking and Telecommunication-MCSA-AAS
- 14 Networking Specialist-Certificate

Computer and Information Sciences

- 15 PC Support Specialization - AAS
- 16 PC Support- Certificate
- 17 UNIX Operating System- AAS
- 18 UNIX-Marketable Skills Achievement Award

Digital Communications

- 19 Graphic Design-AAS
- 20 Graphic Design-Certificate
- 21 Graphic Design - Marketable Skills Achievement Award
- 22 Multimedia Specialization -AAS
- 23 Multimedia/Courseware and Training Specialization- Certificate
- 24 Multimedia/Graphic Arts Specialization- Certificate
- 25 Multimedia - Marketable Skills Achievement Award
- 26 Multimedia/Video and Animation- Certificate
- 27 Digital Video - Marketable Skills Achievement Award
- 28 Web Development Specialization -AAS
- 29 Level I - Web Development -Certificate
- 30 Level 2 Web Development- Certificate
- 31 Web Development - Marketable Skills Achievement Award
- 32 Web Design Specialization - Certificate

- 33 Web Design - Marketable Skills Achievement Award
- 34 Technical Communication- AAS
- 35 Technical Writing- Certificate
- 36 On-Line Documentation -Certificate
- 37 Technical Communication- Marketable Skills Achievement Award

Digital Gaming and Simulation

- 38 Digital Gaming and Simulation for Artists-AAS
- 39 Digital Gaming and Simulation for Artists-Level 1 Certificate
- 40 Digital Gaming and Simulation for Artists-Level 2 Certificate
- 41 Digital Gaming and Simulation for Programmers-AAS
- 42 Digital Gaming and Simulation for Programmers-Level 1 Certificate
- 43 Digital Gaming and Simulation for Programmers-Level 2 Certificate

Geographic Information Science

- 44 Geographic Information Science-AAS
- 45 GIS Analyst-Certificate
- 46 GIS Technician-Certificate

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

___ FA ___ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 05-06

COMPUTER PROGRAMMING - AAS -APPLICATIONS DEVELOPMENT USING MICROSOFT VB NET SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1437 Programming Fundamentals II						
ITSW 1307 Introduction to Database						
THIRD SEMESTER						
SPCH 1321 Business and Professional Speaking OR						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking						
XXXX #3## Humanities/Fine Arts General Education Elective						
SECOND YEAR						
FIRST SEMESTER						
ITSE 1311 Web Page Programming						
COSC 2325 Computer Organization - Machine Language						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
ITSE 1431 Introduction to Visual BASIC Programming						
ACCT 2301 Principles of Accounting I						
SECOND SEMESTER						
INEW 2334 Advanced Web Page Programming						
ITSE 2449 Advanced Visual BASIC Programming						
ITSE 1380 Cooperative Education						
SOCI 1301 Introductin to Sociology						
ACCT 2302 Principles of Accounting II						

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

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1437 Programming Fundamentals II						
ITSW 1307 Introduction to Database						
THIRD SEMESTER						
XXXX #3## Humanities/Fine Arts General Education Elective						
SPCH 1321 Business and Professional Speaking OR						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking						
SECOND YEAR						
FIRST SEMESTER						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
ITSE 2455 Advanced C Programming						
COSC 2325 Computer Organization and Machine Language						
ACCT 2301 Principles of Accounting I						
ITSE 1311 Web Page Programming						
SECON SEMESTER						
SOCI 1301 Introduction to Sociology						
ITSE 2457 Advanced Object-Oriented Programming						
INEW 2334 Advanced Web Page Programming						
ITSE 1380 Cooperative Education						
ACCT 2302 Principles of Accounting II						

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

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1437 Programming Fundamentals II						
ITSW 1307 Introduction to Database						
THIRD SEMESTER						
XXXX #3## Humanities/Fine Arts General Education Elective						
SPCH 1321 Business and Professional Speaking OR						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking						
SECOND YEAR						
FIRST SEMESTER						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
COSC 2325 Computer Organization and Machine Language						
ITSE 1311 Web Page Programming						
ITSE 2417 Java Programming						
ACCT 2301 Principles of Accounting I						
SECOND SEMESTER						
ITSE 2302 Intermediate Web Programming						
INEW 2438 Advanced Java Programming						
ITSE 1380 Cooperative Education						
ACCT 2302 Principles of Accounting II						
SOCI 1301 Introduction to Sociology						

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COMPUTER PROGRAMMING - AAS - ORACLE DEVELOPMENT SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I						
SECOND SEMESTER						
ENGL 1302 Composition II						
COSC 1437 Programming Fundamentals II						
ITSE 1345 Introduction to Oracle SQL						
ITSW 1307 Introduction to Database						
THIRD SEMESTER						
XXXX #3## Humanities/Fine Arts General Education Elective						
SPCH 1321 Business and Professional Speaking OR						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking						
SECOND YEAR						
FIRST SEMESTER						
MATH1324 Finite Mathematics with Applications						
COSC 2325 Computer Organization and Machine Language						
ITSE 2346 Oracle Applications Development I						
ITSE 2354 Advanced Oracle PL/SQL						
ACCT 2301 Principles of Accounting I						
SECOND SEMESTER						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SOCI 1301 Introduction to Sociology						
ITSE 2348 Oracle Applications Development II						
ITSE 1380 Cooperative Education						
ACCT 2302 Principles of Accounting II						

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NAME:	SS#:	DATE:
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COMPUTER SCIENCE SOFTWARE - AAS - ORACLE DATABASE ADMINISTRATION SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
COSC 1436 Programming Fundamentals I						
BCIS 1405 Business Computer Applications						
SECOND SEMESTER						
ENGL 1302 Composition II						
COSC 1437 Programming Fundamentals II						
SOCI 1301 Introduction to Sociology						
ITSW 1307 Introduction to Database						
ITSE 1345 Introduction to Oracle SQL						
THIRD SEMESTER						
ITSC 1307 Unix Operating System I						
SPCH 1321 Business and Professional Speaking OR						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking						
SECOND YEAR						
FIRST SEMESTER						
XXXX #3## Humanities/Fine Arts General Education Elective						
MATH 1324 Finite Mathematics with Applications						
ITSE 2354 Advanced Oracle PL/SQL						
ITSE 2356 Oracle Database Administration I						
ACCT 2301 Principles of Accounting I						
SECOND SEMESTER						
ITSE 2340 Oracle Distributed Database and Client/Server Systems						
ITSE 2358 Oracle Database Administration II						
ITSE 1380 Cooperative Education - Computer Programming						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
ACCT 2302 Principles of Accounting II						

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NAME:	SS#:	DATE:
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COMPUTER AND INFORMATION SCIENCES - AAS - PC SUPPORT SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
ITNW 1421 Introduction to Networking						
BCIS 1405 Business Computer Applications						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1436 Programming Fundamentals I						
ITSC 1321 Intermediate PC Operating Systems						
THIRD SEMESTER (SUMMER)						
XXXX #3## Humanities/Fine Arts General Education Elective						
ITSW 2331 Advanced Word Processing						
SECOND YEAR						
FIRST SEMESTER						
SPCH 1321 Business and Professional Speaking OR						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking						
ITSC 1307 UNIX Operating System I						
ITSW 2334 Advanced Spreadsheets						
XXXX #3## Approved Business Elective						
CPMT 1411 Introduction to Computer Maintenance						
SECOND SEMESTER						
ITSW 2337 Advanced Database						
XXXX #3## Approved Business Elective						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
ITSC 1380 Cooperative Education						
SOCI 1301 Introduction to Sociology						

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
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COMPUTER AND INFORMATION SCIENCES - AAS - UNIX OPERATING SYSTEM SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITNW 1421 Introduction to Networking						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1436 Programming Fundamentals I						
ITSC 1307 Unix Operating System I						
THIRD SEMESTER (SUMMER)						
SPCH 1321 Business and Professional Speaking OR						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking						
XXXX #3## Humanities/Fine Arts General Education Elective						
SECOND YEAR						
FIRST SEMESTER						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
ITSC 2337 Unix Operating System II						
CPMT 1411 Introduction to Computer Maintenance						
ITSC 1358 Unix System Administration I						
XXXX #3## Approved Business Elective						
SECOND SEMESTER						
SOCI 1301 Introduction to Sociology						
ITSC 1321 Intermediate PC Operating Systems						
ITSC 1380 Cooperative Education-Computer and Information Sciences, General						
XXXX #3## Approved Business Elective						

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NAME:	SS#:	DATE:
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DIGITAL COMMUNICATION - ASSOCIATE IN APPLIED SCIENCE - GRAPHIC DESIGN

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
ARTC 1325 Introduction to Computer Graphics						
ARTC 1302 Digital Imaging I						
ARTC 1309 Basic Illustration						
ARTC 1305 Basic Graphic Design						
XXXX #3## Social Science General Education Elective						
SECOND SEMESTER						
ARTC 2311 History of Communication Graphics						
ARTS 2356 Photography I						
ARTC 1321 Illustration Techniques						
ARTC 1353 Computer Illustration						
XXXX #3## Approved Humanities/Fine Arts General Education Elective						
SECOND YEAR						
FIRST SEMESTER						
ARTC 1317 Design Communication I						
ARTC 2313 Digital Publishing II						
ARTC 2317 Typographic Design						
ARTC 2340 Computer Illustration II						
XXXX #3## Math/Natural Science General Education Elective						
SECOND SEMESTER						
ETWR 1371 Technical Composition						
ARTC 2347 Design Communication II						
ARTC 2348 Digital Publishing III						
IMED 2388 Internship-Digital Communication and Media/Multimedia						
ARTC 2335 Portfolio Development for Graphic Design						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1321 Business and Professional Speaking						

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
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DIGITAL COMMUNICATION - ELECTRONIC PUBLISHING - AAS - MULTIMEDIA SPECIALIZATION

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
SPCH 1321 Business and Professional Speaking						
ARTC 1313 Digital Publishing I						
IMED 1301 Introduction to Multimedia						
ARTC 1305 Basic Graphic Design						
SECOND SEMESTER						
ENGL 1302 Composition II						
ARTC 1302 Digital Imaging I						
XXXX #3## Math/Natural Science General Education Elective						
ETWR 1371 Technical Composition						
XXXX #3## Computer Applications Elective*						
THIRD SEMESTER						
IMED 1341 2-D Interface Design						
GRPH 1359 Object-Oriented Computer Graphics						
IMED 1371 Internet Animations I						
ARTC 1345 3-D Modeling and Rendering						
IMED 1345 Interactive Multimedia I						
SECOND YEAR						
FIRST SEMESTER						
ARTC 1341 3-D Animation I						
IMED 1351 Digital Video						
XXXX #3## Approved Humanities/Fine Arts General Education Elective						
XXXX #3## Social Science General Education Elective						
SECOND SEMESTER						
ARTC 2341 3-D Animation II						
ITSC 1313 Internet/Web Page Development						
IMED 2313 Project Analysis and Design						
IMED 2345 Interactive Multimedia II						
IMED 2388 Internship-Digital Communication and Media/Multimedia						

* ITSE 1309, COSC 1401, POFI 1301 or BCIS 1405

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
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DIGITAL COMMUNICATION -ELECTRONIC PUBLISHING - AAS - WEB DEVELOPMENT SPECIALIZATION

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
SPCH 1321 Business and Professional Speaking						
ARTC 1313 Digital Publishing I						
ARTC 1305 Basic Graphic Design						
ITSC 1313 Internet/Web Page Development						
SECOND SEMESTER						
ENGL 1302 Composition II						
ETWR 1371 Technical Composition						
IMED 1341 2-D Interface Design						
IMED 1374 Internet Graphics						
IMED 1316 Web Page Design I						
THIRD SEMESTER						
XXXX #3## Computer Applications Elective*						
IMED 2351 Multimedia Programming						
IMED 2315 Web Page Design II						
IMED 1391 Special Topics in Educational/Instructional Media Design - Writing for the Web						
SECOND YEAR						
FIRST SEMESTER						
XXXX #3## Department Approved Elective						
IMED 1371 Internet Animation I						
IMED 2309 Internet Commerce						
XXXX #3## Math/Natural Science General Education Elective						
XXXX #3## Social Science General Education Elective						
SECOND SEMESTER						
IMED 1372 Internet Animation II						
IMED 1373 Dynamic Web Page Development						
IMED 2349 Internet Communications						
IMED 2388 Internship-Digital Communication and Media/Multimedia						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						

* ITSE 1309, COSC 1401, POFI 1301 or BCIS 1405

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 05-06

DIGITAL COMMUNICATION -ELECTRONIC PUBLISHING - CERTIFICATE (LEVEL 2) - WEB DEVELOPMENT

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ARTC 1313 Digital Publishing I						
ARTC 1305 Basic Graphic Design						
ITSC 1313 Internet/Web Page Development						
IMED 1374 Internet Graphics						
ETWR 1371 Technical Composition						
SECOND SEMESTER						
IMED 1341 2-D Interface Design						
XXXX #3## Computer Applications Elective*						
IMED 1316 Web Page Design I						
IMED 1391 Special Topics in Educational/Instructional Media Design						
SECOND YEAR						
FIRST SEMESTER						
IMED 1371 Internet Animation I						
IMED 2351 Multimedia Programming						
IMED 2315 Web Page Design II						
IMED 2309 Internet Commerce						
SECOND SEMESTER						
IMED 1372 Internet Animation II						
IMED 1373 Dynamic Web Page Development						
IMED 2349 Internet Communications						
XXXX #3## Department Approved Elective						
IMED 2388 Internship-Digital Communication and Media/Multimedia						

* ITSE 1309, COSC 1401, POFI 1301 or BCIS 1405

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NAME:	SS#:	DATE:
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TECHNICAL COMMUNICATION-ASSOCIATE IN APPLIED SCIENCE - TECHNICAL COMMUNICATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
XXXX #3## Computer Applications Elective*						
POFT 1301 Proofreading and Editing OR						
ENGL 1311 Business English						
ARTC 1313 Digital Publishing I						
ARTC 1305 Basic Graphic Design						
SECOND SEMESTER						
ENGL 1302 Composition II						
ARTC 2313 Digital Publishing II						
XXXX #3## Math/Natural Science General Education Elective						
ETRW 1371 Technical Composition						
ITSC 1313 Internet Web Page Development						
THIRD SEMESTER						
IMED 1301 Introduction to Multimedia						
SPCH 1321 Business and Professional Speaking						
ARTC 1302 Digital Imaging I						
ETWR 2301 Technical Writing OR						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND YEAR						
FIRST SEMESTER						
ETWR 1372 Technical Writing II						
ETWR 1373 Online Documentation						
XXXX #3## Social Science General Education Elective						
XXXX #3## Approved Humanities/Fine Arts General Education Elective						
SECOND SEMESTER						
ETWR 1374 Proposal Writing						
IMED 2388 Internship Digital Communication and Media/Multimedia Technology/Technician						
XXXX #3## Department Approved Elective						

* ITSE 1309, COSC 1401, POFI 1301 or BCIS 1405

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NAME:	SS#:	DATE:
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DIGITAL GAMING AND SIMULATION FOR ARTISTS-ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
GAME 1370 Concept Design and Evolution of Electronic Games						
ARTC 1302 Digital Imaging I						
COSC 1436 Programming Fundamentals I						
ARTS 2323 Life Drawing I						
SECOND SEMESTER						
GAME 1270 Laws of Cyberspace and Ethical Issues						
GAME 1271 Game Theory						
ARTC 1345 3-D Modeling and Rendering						
GRPH 1359 Object Oriented Computer Graphics						
GAME 1371 Character Sculpting						
ARTS 2324 Life Drawing II						
THIRD SEMESTER						
GAME 1373 Storyboarding						
ARTC 1341 3-D Animation I						
SECOND YEAR						
FIRST SEMESTER						
GAME 2370 Project Development I						
ARTV 1343 Digital Sound						
ARTC 1305 Basic Graphic Design						
ARTC 2341 3-D Animation II						
GAME 1374 Level Design						
SECOND SEMESTER						
GAME 2375 Project Development II						
GAME 2373 Lighting, Shading and Texture						
GAME 2376 Game Testing						
XXXX #3## Math/Natural Science Elective						
XXXX #3## Social/Behavioral Science Elective						
THIRD SEMESTER						
GAME 2377 Internship						

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DIGITAL GAMING AND SIMULATION FOR ARTISTS-CERTIFICATE (LEVEL 2)

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
GAME 1370 Concept Design and Evolution of Electronic Games						
ARTC 1302 Digital Imaging I						
COSC 1436 Programming Fundamentals I						
ARTS 2323 Life Drawing I						
SECOND SEMESTER						
GAME 1270 Laws of Cyberspace and Ethical Issues						
GAME 1271 Game Theory						
ARTC 1345 3-D Modeling and Rendering						
GRPH 1359 Object Oriented Computer Graphics						
GAME 1371 Character Sculpting						
ARTS 2324 Life Drawing II						
THIRD SEMESTER						
GAME 1373 Storyboarding						
ARTC 1341 3-D Animation I						
SECOND YEAR						
FIRST SEMESTER						
GAME 2370 Project Development I						
ARTV 1343 Digital Sound						
ARTC 2341 3-D Animation II						
GAME 1374 Level Design						
SECOND SEMESTER						
GAME 2375 Project Development II						
GAME 2373 Lighting, Shading, and Texture						
GAME 2376 Game Testing						

**HOUSTON COMMUNITY COLLEGE SYSTEM
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DIGITAL GAMING AND SIMULATION FOR PROGRAMMERS-ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
GAME 1370 Concept Design and Evolution of Electronic Games						
ARTC 1302 Digital Imaging I						
COSC 1436 Programming Fundamentals I						
MATH 1314 College Algebra						
SECOND SEMESTER						
GAME 1270 Laws of Cyberspace and Ethical Issues						
GAME 1271 Game Theory						
IMED 1345 Interactive Multimedia I						
ARTC 1345 3-D Modeling and Rendering						
COSC 1437 Programming Fundamentals II						
GAME 1372 Math for Game Programmers						
THIRD SEMESTER						
GAME 1373 Storyboarding						
GAME 2371 Game Development Using C++						
SECOND YEAR						
FIRST SEMESTER						
GAME 2370 Project Development I						
ITNW 1325 Fundamentals of Networking Technologies						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
GAME 2372 ActionScript and Python						
GAME 1374 Level Design						
SECOND SEMESTER						
GAME 2375 Project Development II						
GAME 2374 DirectX Programming						
GAME 2376 Game Testing						
XXXX #3## Social/Behavioral Science Elective						
XXXX #3## Math/Natural Science Elective						
THIRD SEMESTER						
GAME 2377 Internship						

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GEOGRAPHIC INFORMATION SCIENCE - ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
DFTG 1305 Technical Drafting						
ITSC 1301 Introduction to Computers						
CRTG 1411 Introduction to GIS/GPS						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
COSC 1436 Programming Fundamentals I						
DFTG 1309 BASIC Computer-Aided Drafting						
CRTG 1401 Cartography and Geography in GIS/GPS						
CRTG 1421 Introduction to Raster-Based GIS						
XXXX #3## Approved Humanities/Fine Arts General Education Elective						
SECOND YEAR						
FIRST SEMESTER						
ITSW 1307 Introduction to Database						
GEOL 1403 Physical Geology						
CRTG 1491 Special Topics in Cartography						
CRTG 2401 Data Acquisition and Analysis in GIS						
ETWR 2301 Technical Writing OR						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND SEMESTER						
CRTG 2411 Workplace GIS						
CRTG 2380 Cooperative Education OR						
CRTG 2364 Practicum (or Field Experience) Cartography						
XXXX #3## Department Approved Computer Science OR						
XXXX #3## Graphic Design Elective*						
XXXX #3## Department Approved Program-Related Elective***						
XXXX #3## Social Science General Education Elective**						

*Approved Computr Science OR Graphic Design Elective- ITSE 1431, ITSE 1345, COSC 1437, ARTC 1405

**Social Science General Education Elective- ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1300, 1303; GOVT 2304; PSYC 2301; SOCI 1301, 1306, 2301, 2336; TECA 1354

***Program Related Elective- MATH 2312, GEOL 1305, ACNT 1303

