

Information Technology Programs

Computer Programming

- 2 Applications Development- Visual Basic.NET Specialization-AAS
- 3 Applications Development- Microsoft C# Specialization-AAS
- 4 Applications Development- Java Specialization-AAS
- 5 Applications Development- Oracle Application Development Sepcialization-AAS

Computer Science Technology

- 6 Oracle Database Administration Specialization-AAS

Computer Systems, Networking and Telecommunications

- 7 Computer Systems, Networking and Telecommunications (MCSA)-AAS
- 9 Computer Systems, Networking and Telecommunications- Certificate

Computer and Information Science Technology

- 10 PC Support Specialization - AAS
- 11 PC Support- Certificate
- 12 UNIX Specialization- AAS
- 13 IBM Enterprise Server- Certificate

Computer Science and Programming- Marketable Skills Achievement Awards

- 14 Microsoft Visual Basic.NET-MSA
- 15 Microsoft C#-MSA
- 16 Java -MSA
- 17 Oracle Application Development- MSA
- 18 Oracle Database Administration- MSA
- 19 UNIX(LINUX)- MSA

Digital Gaming and Simulation

- 20 Digital Gaming and Simulation for Artists-AAS
- 21 Digital Gaming and Simulation for Artists-Certificate (Level 1)
- 22 Digital Gaming and Simulation for Artists-Certificate (Level 2)
- 23 Digital Gaming and Simulation for Programmers-AAS
- 25 Digital Gaming and Simulation for Programmers-Certificate (Level 1)
- 26 Digital Gaming and Simulation for Programmers-Certificate (Level 2)

Geographic Information Science

- 27 Geographic Information Science-AAS
- 28 Geographic Information Science Analyst-Certificate
- 29 GIS Technician-Certificate
- 30 Geographic Information Science-Marketable Skills Achievement Award

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

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

COMPUTER PROGRAMMING - AAS -APPLICATIONS DEVELOPMENT-VISUAL BASIC.NET SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
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						
ITSE 1432 Introduction to Visual Basic.NET						
ITSE 1346 Database Theory and Design						
THIRD SEMESTER						
XXXX #3## Humanities/Fine Arts General Education Elective						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
FIRST SEMESTER						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
ACCT 2301 Principles of Accounting I						
ITSE 1350 System Analysis and Design OR						
XXXX #3## Department Approved Elective						
ITSE 1447 Programming with Visual Basic.NET						
ITSE 1356 Extensible Markup Language (XML)						
SECOND SEMESTER						
SOCI 1301 Introduction to Sociology						
ACCT 2302 Principles of Accounting II						
ITSE 2434 Advanced Visual Basic.NET Programming						
INEW 1340 ASP.NET Programming						
ITSE 1380 Cooperative Education- Computer Programming						

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

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I (with C#)						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1437 Programming Fundamentals II (with C#)						
ITSE 1346 Database Theory and Design						
THIRD SEMESTER						
XXXX #3## Humanities/Fine Arts General Education Elective						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
FIRST SEMESTER						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
XXXX #3## Department Approved Business Elective						
XXXX #3## Department Approved Elective OR						
ITSE 1350 System Analysis and Design						
ITSE 1430 Introduction to C# Programming						
ITSE 1356 Extensible Markup Language (XML)						
SECON SEMESTER						
SOCI 1301 Introduction to Sociology						
XXXX #3## Department Approved Business Elective						
ITSE 2453 Advanced C# Programming						
INEW 1340 ASP.NET Programming						
ITSE 1380 Cooperative Education- Computer Programming						

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COMPUTER PROGRAMMING - AAS -APPLICATIONS DEVELOPMENT- JAVA SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I (with Java)						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1437 Programming Fundamentals II (with Java)						
ITSE 1346 Database Theory and Design						
THIRD SEMESTER						
XXXX #3## Approved Humanities/Fine Arts Elective						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
FIRST SEMESTER						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
XXXX #3## Department Approved Business Elective						
ITSE 1350 System Analysis and Design OR						
XXXX #3## Department Approved Elective						
ITSE 1345 Introduction to Oracle SQL						
ITSE 1356 Extensible Markup Language (XML)						
SECOND SEMESTER						
SOCI 1301 Introduction to Sociology						
XXXX #3## Department Approved Business Elective						
INEW 2418 Web Programming Using JavaServer Pages and Servlets						
INEW 2438 Advanced Java Programming						
ITSE 1380 Cooperative Education- Computer Programming						

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COMPUTER PROGRAMMING - AAS - APPLICATIONS DEVELOPMENT- ORACLE APPLICATION DEVELOPMENT SPECIALIZATION

HCCS Course Requirement	Transfer/Substitution Institution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.					
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					
COSC 1437 Programming Fundamentals II					
ITSE 1346 Database Theory and Design					
ITSE 1345 Introduction to Oracle SQL					
ITSE 1356 Extensible Markup Language (XML)					
THIRD SEMESTER					
XXXX #3## Humanities/Fine Arts General Education Elective					
SPCH 1311 Fundamentals of Speech OR					
SPCH 1315 Public Speaking OR					
SPCH 1321 Business and Professional Speaking					
SECOND YEAR					
FIRST SEMESTER					
MATH 1324 Finite Mathematics with Applications					
XXXX #3## Department Approved Business Elective					
INEW 2418 Web Programming Using JavaServer Pages and Servlets					
ITSE 2302 Intermediate Web Programming					
ITSE 2346 Oracle: Application I					
ITSE 2354 Advanced Oracle PL/SQL					
SECOND SEMESTER					
SOCI 1301 Introduction to Sociology					
ENGL 2311 Tech. & Ind. Correspondence & Report Writing					
XXXX #3## Department Approved Business Elective					
ITSE 2348 Oracle: Applications II					
ITSE 1380 Cooperative Education- Computer Programming					

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COMPUTER SCIENCE TECHNOLOGY - AAS - ORACLE DATABASE ADMINISTRATION SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
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						
SOCI 1301 Introduction to Sociology						
COSC 1437 Programming Fundamentals II OR						
ITSE 2354 Advanced Oracle PL/SQL						
ITSE 1346 Database Theory and Design						
ITSE 1345 Introduction to Oracle SQL						
THIRD SEMESTER						
ITSC 1307 Unix Operating System I (using LINUX)						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
FIRST SEMESTER						
XXXX #3## Humanities/Fine Arts General Education Elective						
ITSC 1458 UNIX System Administration I OR						
ITNW 1425 Fundamentals of Networking Technologies						
MATH 1324 Finite Mathematics with Applications						
XXXX #3## Department Approved Elective OR						
ITSE 1350 System Analysis and Design						
ITSE 2456 Oracle Database Administration I						
SECOND SEMESTER						
ENGL 2311 Tech. & Ind. Correspondence & Report Writing						
ITSE 2444 Oracle Database Structure and Data Warehousing						
ITSE 2458 Oracle Database Administration II						
ITSE 1380 Cooperative Education - Computer Programming						

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COMPUTER SYS., NETWORKING AND TELE. - AAS- COMPUTER SYSTEMS, NETWORKING AND TELECOMMUNICATIONS (MCSA)

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITNW 1425 Fundamentals of Networking Technologies						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1436 Programming Fundamentals I						
ITNW 1358 Network+						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
THIRD SEMESTER						
ITMT 1300 Implementing and Supporting Microsoft Windows XP Professional						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
FIRST SEMESTER						
XXXX#3## Approved Business Elective						
CPMT 1411 Introduction to Computer Maintenance						
ITMT 1350 Implementing, Managing, and Maintaining MS Windows Server 2003 Network Infrastructure						
ITMT 1340 Managing and Maintaining a Microsoft Windows Server 2003 Environment						
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COMPUTER AND INFORMATION SCIENCE TECHNOLOGY- AAS- PC SUPPORT SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITNW 1425 Fundamentals of Networking Technologies						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1436 Fundamentals of Programming I						
ITSC 1321 Intermediate PC Operating Systems						
ITMT 1300 Implementing and Supporting Microsoft Windows XP Professional						
XXXX #3## Humanities/Fine Arts General Education Elective						
THIRD SEMESTER (SUMMER)						
ITSC 2321 Integrated Software Applications II (Adv. Word)						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
FIRST SEMESTER						
XXXX #3## Approved Business Elective						
CPMT 1411 Introduction to Computer Maintenance						
ITSC 1307 UNIX Operating System I						
ITSW 2334 Advanced Spreadsheets						
SECOND SEMESTER						
SOCI 1301 Introduction to Sociology						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
XXXX #3## Approved Business Elective						
ITSW 2337 Advanced Database						
ITSC 1380 Cooperative Education- Computer & Infor. Sci.						

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COMPUTER AND INFORMATION SCIENCE TECHNOLOGY - AAS - UNIX SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITNW 1425 Fundamentals of Networking Technologies						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1436 Programming Fundamentals I						
ITSC 1307 Unix Operating System I						
CPMT 1411 Introduction to Computer Maintenance						
THIRD SEMESTER (SUMMER)						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
XXXX #3## Humanities/Fine Arts General Education Elective						
SECOND YEAR						
FIRST SEMESTER						
ITSC 1342 Shell Programming						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
ITSC 1358 Unix System Administration I						
XXXX #3## Approved Business Elective						
SOCI 1301 Introduction to Sociology						
SECOND SEMESTER						
XXXX #3## Approved Business Elective						
XXXX #4## Department Approved Elective						
ITSC 1447 Unix System Administration II						
ITSC 1380 Cooperative Education-Computer and Information Sciences						

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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
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
GAME 1306 Design and Creation of Games						
ARTC 1302 Digital Imaging I						
COSC 1436 Programming Fundamentals I						
ARTS 2323 Life Drawing I						
SECOND SEMESTER						
GAME 1201 Computer Ethics						
GAME 1212 Game Theory						
ARTV 1345 3-D Modeling and Rendering I						
GAME 1375 Principles of Game Concept Art						
GAME 1314 Character Sculpting						
ARTS 2324 Life Drawing II						
THIRD SEMESTER						
GAME 1302 Storyboarding						
ARTV 1341 3-D Animation I						
SECOND YEAR						
FIRST SEMESTER						
GAME 2332 Project Development I						
GAME 2378 Techniques of Game Art						
GAME 2336 Lighting, Shading, and Texture						
ARTV 2351 3-D Animation II						
GAME 1304 Level Design						
SECOND SEMESTER						
GAME 2334 Project Development II						
ARTV 1343 Digital Sound						
GAME 2379 Portfolio Development						
XXXX #3## Math/Natural Science Elective						
XXXX #3## Social/Behavioral Science Elective						
THIRD SEMESTER						
GAME 2386 Internship- Animation, Interactive Technology, Video Graphics and Special Effects						

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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
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
GAME 1306 Design and Creation of Games						
ARTC 1302 Digital Imaging I						
COSC 1436 Programming Fundamentals I						
MATH 1314 College Algebra						
SECOND SEMESTER						
GAME 1201 Computer Ethics						
GAME 1212 Game Theory						
ARTV 1345 3-D Modeling and Rendering I						
ARTV 2301 2-D Animation I (Flash)						
COSC 1437 Programming Fundamentals II						
GAME 2302 Mathematical Applications for Game Development						
THIRD SEMESTER						
GAME 1302 Storyboarding						
GAME 2342 Game Development Using C++						
SECOND YEAR						
FIRST SEMESTER						
GAME 2332 Project Development I						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
GAME 2341 Game Scripting						
XXXX #3## Computer Programming Elective*						
GAME 1304 Level Design						
SECOND SEMESTER						
GAME 2334 Project Development II						
GAME 2344 Direct X Programming						
GAME 2379 Portfolio Development						
XXXX #3## Math/ Science Elective						
XXXX #3## Social/Behavioral Science Elective						
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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
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
DFTG 1305 Technical Drafting						
ITSC 1301 Introduction to Computers						
GISC 1411 Introduction to GIS						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
COSC 1436 Programming Fundamentals I						
DFTG 1309 BASIC Computer-Aided Drafting						
GISC 1401 Cartography and Geography in GIS/GPS						
GISC 1421 Introduction to Raster-Based GIS						
XXXX #3## Approved Humanities/Fine Arts						
General Education Elective						
SECOND YEAR						
FIRST SEMESTER						
ITSW 1307 Introduction to Database						
GEOG 1403 Physical Geology						
GISC 1491 Special Topics in Cartography						
GISC 2401 Data Acquisition and Analysis in GIS						
ETWR 2301 Technical Writing OR						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND SEMESTER						
GISC 2411 Geographic Info. Systems (GIS) Applications						
XXXX #3## Department Approved Computer Science OR						
XXXX #3## Graphic Design Elective*						
XXXX #3## Department Appr. Program-Related Elective***						
XXXX #3## Social Science General Education Elective**						
GISC 2380 Cooperative Education- Cartography OR						
GISC 2364 Practicum (or Field Experience) Cartography						

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

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

***Program Related Elective- (Choose 1) MATH 2312 and ENVR 1301 also meet the required Academic Core at all Texas public higher educational institutions. ACNT 1303, Introduction to Accounting I; Math 2312, Precalculus; GEOG 1305, Environmental Science

