

# Information Technologies Programs

## **Computer Programming**

- 2 Applications Development- Visual Basic.Net Specialization-AAS
- 3 Microsoft Visual Basic.Net-Marketable Skills Achievement Award
- 4 Applications Development- Microsoft C# Specialization-AAS
- 5 Microsoft C#-Marketable Skills Achievement Award
- 6 Applications Development- Java Specialization-AAS
- 7 Java - Marketable Skills Achievement Award
- 8 Applications Development- Oracle Application Development Sepcialization-AAS
- 9 Oracle Application Development-Marketable Skills Achievement Award

## **Computer Science Technology**

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

## **Computer Systems, Networking and Telecommunications**

- 12 Computer Systems, Networking and Telecommunications (MCSA)-AAS
- 14 Computer Systems, Networking and Telecommunications Specialization-Certificate

## **Computer and Information Science Technology**

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

## **Digital Communications**

- 19 Digital Communication-AAS
- 20 Digital Communication- Level I- Certificate
- 21 Digital Communication- Level II- Certificate
- 22 Digital Communication- Marketable Skills Achievement Award
- 23 Graphic Design Specialization -AAS
- 24 Graphic Design Specialization- Level II -Certificate
- 25 Graphic Design - Marketable Skills Achievement Award
- 26 Multimedia Specialization- AAS
- 27 Multimedia Specialization-Level I- Certificate
- 28 Multimedia Specialization-Level II- Certificate
- 29 Multimedia- Marketable Skills Achievement Award
- 30 Web Publishing Specialization- AAS
- 31 Web Publishing Specialization-Level I- Certificate
- 32 Web Publishing Specialization-Level II- Certificate
- 33 Web Publishing - Marketable Skills Achievement Award

- 34 Technical Communication- AAS
- 35 Technical Writing- Certificate
- 36 Online 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-Certificate (Level 1)
- 40 Digital Gaming and Simulation for Artists-Certificate (Level 2)
- 41 Digital Gaming and Simulation for Programmers-AAS
- 42 Digital Gaming and Simulation for Programmers-Certificate (Level 1)
- 43 Digital Gaming and Simulation for Programmers-Certificate (Level 2)

## **Geographic Information Science**

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

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| NAME:    | SS#:               | DATE:               |
| COLLEGE: | COUNSELOR/ADVISOR: | CATALOG YEAR: 06-07 |

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

| HCCS Course Requirement   | Transfer/<br>Institution | Substitution<br>Course | Substitute (SU)<br>Transfer (TR) | Comment/Disapproval | Approval<br>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 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<br>and Report Writing |                          |                        |                                  |                     |                       |      |
| ACCT 2301 Principles of Accounting I                                    |                          |                        |                                  |                     |                       |      |
| XXXX #3## Department Approved Elective                                  |                          |                        |                                  |                     |                       |      |
| ITSE 1432 Introduction to Visual Basic.Net                              |                          |                        |                                  |                     |                       |      |
| ITSE 1356 Extensible Markup Language (XML)                              |                          |                        |                                  |                     |                       |      |
| SECOND SEMESTER   |                          |                        |                                  |                     |                       |      |
| SOCI 1301 Introduction to Sociology                                     |                          |                        |                                  |                     |                       |      |
| ACCT 2302 Principles of Accounting II                                   |                          |                        |                                  |                     |                       |      |
| ITSE 1447 Programming with Visual Basic.Net                             |                          |                        |                                  |                     |                       |      |
| 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/<br>Institution | Substitution<br>Course | Substitute (SU)<br>Transfer (TR) | Comment/Disapproval | Approval<br>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 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<br>and Report Writing |                          |                        |                                  |                     |                       |      |
| ACCT 2301 Principles of Accounting I                                    |                          |                        |                                  |                     |                       |      |
| XXXX #3## Department Approved Elective                                  |                          |                        |                                  |                     |                       |      |
| ITSE 1430 Introduction to C# Programming                                |                          |                        |                                  |                     |                       |      |
| ITSE 1356 Extensible Markup Language (XML)                              |                          |                        |                                  |                     |                       |      |
| SECON SEMESTER  |                          |                        |                                  |                     |                       |      |
| SOCI 1301 Introduction to Sociology                                     |                          |                        |                                  |                     |                       |      |
| ACCT 2302 Principles of Accounting II                                   |                          |                        |                                  |                     |                       |      |
| ITSE 2457 Advanced Object-Oriented Programming                          |                          |                        |                                  |                     |                       |      |
| INEW 1340 ASP.Net Programming   |                          |                        |                                  |                     |                       |      |
| ITSE 1380 Cooperative Education   |                          |                        |                                  |                     |                       |      |
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**COMPUTER PROGRAMMING - AAS -APPLICATIONS DEVELOPMENT- JAVA SPECIALIZATION**

| HCCS Course Requirement   | Transfer/<br>Institution | Substitution<br>Course | Substitute (SU)<br>Transfer (TR) | Comment/Disapproval | Approval<br>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 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<br>and Report Writing |                          |                        |                                  |                     |                       |      |
| ACCT 2301 Principles of Accounting I                                    |                          |                        |                                  |                     |                       |      |
| XXXX #3## Department Approved   |                          |                        |                                  |                     |                       |      |
| INEW 2438 Advanced Java Programming                                     |                          |                        |                                  |                     |                       |      |
| ITSE 1356 Extensible Markup Language (XML)                              |                          |                        |                                  |                     |                       |      |
| SECOND SEMESTER   |                          |                        |                                  |                     |                       |      |
| SOCI 1301 Introduction to Sociology                                     |                          |                        |                                  |                     |                       |      |
| ACCT 2302 Principles of Accounting II                                   |                          |                        |                                  |                     |                       |      |
| ITSE 2302 Intermediate Web Programming                                  |                          |                        |                                  |                     |                       |      |
| INEW 1340 ASP.Net Programming   |                          |                        |                                  |                     |                       |      |
| ITSE 1380 Cooperative Education- Computer Programming                   |                          |                        |                                  |                     |                       |      |
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**COMPUTER PROGRAMMING - AAS - APPLICATIONS DEVELOPMENT- ORACLE APPLICATION DEVELOPMENT SPECIALIZATION**

| HCCS Course Requirement   | Transfer/<br>Institution | Substitution<br>Course | Substitute (SU)<br>Transfer (TR) | Comment/Disapproval | Approval<br>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  |                          |                        |                                  |                     |                       |      |
| COSC 1437 Programming Fundamentals II                                   |                          |                        |                                  |                     |                       |      |
| ITSW 1307 Introduction to Database                                      |                          |                        |                                  |                     |                       |      |
| 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                          |                          |                        |                                  |                     |                       |      |
| ACCT 2301 Principles of Accounting I                                    |                          |                        |                                  |                     |                       |      |
| 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 Technical and Industrial Correspondence and<br>Report Writing |                          |                        |                                  |                     |                       |      |
| ACCT 2302 Principles of Accounting II                                   |                          |                        |                                  |                     |                       |      |
| 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/Substitution<br>Institution Course | Substitute (SU)<br>Transfer (TR) | Comment/Disapproval | Approval<br>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  |   |                                  |                     |                       |      |
| SOCI 1301 Introduction to Sociology                                     |   |                                  |                     |                       |      |
| COSC 1437 Programming Fundamentals II                                   |   |                                  |                     |                       |      |
| ITSW 1307 Introduction to Database                                      |   |                                  |                     |                       |      |
| ITSE 1345 Introduction to Oracle SQL                                    |   |                                  |                     |                       |      |
| THIRD SEMESTER  |   |                                  |                     |                       |      |
| ITSC 1307 Unix Operating System I                                       |   |                                  |                     |                       |      |
| 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 1421 Introduction to Networking                                    |   |                                  |                     |                       |      |
| MATH 1324 Finite Mathematics with Applications                          |   |                                  |                     |                       |      |
| XXXX #3## Department Approved Elective                                  |   |                                  |                     |                       |      |
| ITSE 2456 Oracle Database Administration I                              |   |                                  |                     |                       |      |
| SECOND SEMESTER   |   |                                  |                     |                       |      |
| ENGL 2311 Technical and Industrial Correspondence<br>and 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/<br>Institution | Substitution<br>Course | Substitute (SU)<br>Transfer (TR) | Comment/Disapproval | Approval<br>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   |                          |                        |                                  |                     |                       |      |
| ITNW 1358 Network+   |                          |                        |                                  |                     |                       |      |
| XXXX #3## Humanities/Fine Arts General Education Elective  |                          |                        |                                  |                     |                       |      |
| THIRD SEMESTER   |                          |                        |                                  |                     |                       |      |
| ITMT 1300 Implementing and Supporting Microsoft<br>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<br>Windows Server 2003 Network Infrastructure |                          |                        |                                  |                     |                       |      |
| ITMT 1340 ST-Managing and Maintaining MS Windows<br>Server Environment                             |                          |                        |                                  |                     |                       |      |
|  |                          |                        |                                  |                     |                       |      |
| (Continued on page 2)  |                          |                        |                                  |                     |                       |      |
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**COMPUTER AND INFORMATION SCIENCE TECHNOLOGY- AAS- PC SUPPORT 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  |                                   |        |                               |                     |                    |      |
| 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 Fundamentals of Programming I                              |                                   |        |                               |                     |                    |      |
| ITSC 1321 Intermediate PC Operating Systems                          |                                   |        |                               |                     |                    |      |
| XXXX #3## Humanities/Fine Arts General Education Elective            |                                   |        |                               |                     |                    |      |
| THIRD SEMESTER (SUMMER)  |                                   |        |                               |                     |                    |      |
| ITSW 2331 Advanced Word Processing                                   |                                   |        |                               |                     |                    |      |
| 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 and Information Sciences   |                                   |        |                               |                     |                    |      |
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**COMPUTER AND INFORMATION SCIENCE TECHNOLOGY - AAS - UNIX SPECIALIZATION**

| HCCS Course Requirement   | Transfer/<br>Institution | Substitution<br>Course | Substitute (SU)<br>Transfer (TR) | Comment/Disapproval | Approval<br>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                                       |                          |                        |                                  |                     |                       |      |
| 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<br>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<br>Information Sciences    |                          |                        |                                  |                     |                       |      |
|   |                          |                        |                                  |                     |                       |      |
|   |                          |                        |                                  |                     |                       |      |
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**HOUSTON COMMUNITY COLLEGE SYSTEM  
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

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| NAME:    | SS#:               | DATE:               |
| COLLEGE: | COUNSELOR/ADVISOR: | CATALOG YEAR: 06-07 |

**DIGITAL COMMUNICATION - ASSOCIATE IN APPLIED SCIENCE**

| HCCS Course Requirement   | Transfer/Substitution Institution | Course | Substitute (SU) Transfer (TR) | Comment/Disapproval | Approval Signature | Date |
|---|-----------------------------------|--------|-------------------------------|---------------------|--------------------|------|
| FIRST YEAR  |                                   |        |                               |                     |                    |      |
| First Semester  |                                   |        |                               |                     |                    |      |
| ARTC 1325 Introduction to Computer Graphics                       |                                   |        |                               |                     |                    |      |
| ARTC 1302 Digital Imaging I                                       |                                   |        |                               |                     |                    |      |
| ARTC 1309 Basic Illustration                                      |                                   |        |                               |                     |                    |      |
| ARTC 1305 Basic Graphic Design                                    |                                   |        |                               |                     |                    |      |
| ENGL 1301 Composition I   |                                   |        |                               |                     |                    |      |
| SPCH 1321 Business and Professional Speaking                      |                                   |        |                               |                     |                    |      |
| Second Semester   |                                   |        |                               |                     |                    |      |
| ARTC 1353 Computer Illustration                                   |                                   |        |                               |                     |                    |      |
| ARTC 2311 History of Communication Graphics                       |                                   |        |                               |                     |                    |      |
| IMED 1301 Introduction to Multimedia                              |                                   |        |                               |                     |                    |      |
| IMED 1316 Web Page Design I                                       |                                   |        |                               |                     |                    |      |
| XXXX #3## Math/Natural Science                                    |                                   |        |                               |                     |                    |      |
| General Education Elective  |                                   |        |                               |                     |                    |      |
| Third Semester  |                                   |        |                               |                     |                    |      |
| IMED 1341 Interface Design  |                                   |        |                               |                     |                    |      |
| ETWR 1371 Technical Composition                                   |                                   |        |                               |                     |                    |      |
| ITSE 2313 Web Authoring   |                                   |        |                               |                     |                    |      |
| SECOND YEAR   |                                   |        |                               |                     |                    |      |
| First Semester  |                                   |        |                               |                     |                    |      |
| ARTC 2313 Digital Publishing II                                   |                                   |        |                               |                     |                    |      |
| ARTC 2317 Typographic Design                                      |                                   |        |                               |                     |                    |      |
| ARTV 2301 2-D Animation I   |                                   |        |                               |                     |                    |      |
| ARTV 1351 Digital Video   |                                   |        |                               |                     |                    |      |
| XXXX #3## Humanities/Fine Arts Gen. Ed. Elective                  |                                   |        |                               |                     |                    |      |
| Second Semester   |                                   |        |                               |                     |                    |      |
| XXXX #3## Social Science General Education Elective               |                                   |        |                               |                     |                    |      |
| ARTV 1345 3-D Modeling and Rendering I                            |                                   |        |                               |                     |                    |      |
| IMED 1375 Writing for the Web                                     |                                   |        |                               |                     |                    |      |
| ARTC 2335 Portfolio Development for Graphic Design                |                                   |        |                               |                     |                    |      |
| IMED 2388 Internship- Digital Communication and Media/ Multimedia |                                   |        |                               |                     |                    |      |







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| COLLEGE: | COUNSELOR/ADVISOR: | CATALOG YEAR: 06-07 |

**DIGITAL COMMUNICATION - ASSOCIATE IN APPLIED SCIENCE -GRAPHIC DESIGN 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  |                                   |        |                               |                     |                    |      |
| 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                       |                                   |        |                               |                     |                    |      |
|  |                                   |        |                               |                     |                    |      |
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**HOUSTON COMMUNITY COLLEGE SYSTEM  
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| NAME:    | SS#:               | DATE:               |
| COLLEGE: | COUNSELOR/ADVISOR: | CATALOG YEAR: 06-07 |

**DIGITAL COMMUNICATION -ASSOCIATE IN APPLIED SCIENCE -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 1305 Basic Graphic Design                                   |                                   |        |                               |                     |                    |      |
| ARTC 1325 Introduction to Computer Graphics                      |                                   |        |                               |                     |                    |      |
| IMED 1301 Introduction to Multimedia                             |                                   |        |                               |                     |                    |      |
| SECOND SEMESTER  |                                   |        |                               |                     |                    |      |
| XXXX #3## Math/Natural Science                                   |                                   |        |                               |                     |                    |      |
| General Education Elective                                       |                                   |        |                               |                     |                    |      |
| ARTC 1302 Digital Imaging  |                                   |        |                               |                     |                    |      |
| ETWR 1371 Technical Composition                                  |                                   |        |                               |                     |                    |      |
| IMED 1316 Web Page Design I                                      |                                   |        |                               |                     |                    |      |
| IMED 1341 Interface Design                                       |                                   |        |                               |                     |                    |      |
| THIRD SEMESTER   |                                   |        |                               |                     |                    |      |
| ARTC 1353 Computer Illustration                                  |                                   |        |                               |                     |                    |      |
| ARTV 2301 2-D Animation I  |                                   |        |                               |                     |                    |      |
| ARTV 1345 3-D Modeling and Rendering                             |                                   |        |                               |                     |                    |      |
| IMED 1345 Interactive Multimedia I                               |                                   |        |                               |                     |                    |      |
| Second Year  |                                   |        |                               |                     |                    |      |
| FIRST SEMESTER   |                                   |        |                               |                     |                    |      |
| ARTV 1341 3-D Animation I  |                                   |        |                               |                     |                    |      |
| IMED 1375 Writing for the Web                                    |                                   |        |                               |                     |                    |      |
| ARTV 1351 Digital Video  |                                   |        |                               |                     |                    |      |
| XXXX #3## Approved Humanities/ Fine Arts                         |                                   |        |                               |                     |                    |      |
| General Education Elective                                       |                                   |        |                               |                     |                    |      |
| XXXX #3## Social Science General Education Elective              |                                   |        |                               |                     |                    |      |
| SECOND SEMESTER  |                                   |        |                               |                     |                    |      |
| ARTV 2341 Advanced Digital Video                                 |                                   |        |                               |                     |                    |      |
| ARTV 2351 3-D Animation II                                       |                                   |        |                               |                     |                    |      |
| IMED 2313 Project Analysis and Design                            |                                   |        |                               |                     |                    |      |
| IMED 2345 Interactive Multimedia II                              |                                   |        |                               |                     |                    |      |
| IMED 2388 Internship- Digital Communication and Media/Multimedia |                                   |        |                               |                     |                    |      |







**HOUSTON COMMUNITY COLLEGE SYSTEM  
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| COLLEGE: | COUNSELOR/ADVISOR: | CATALOG YEAR: 06-07 |

**DIGITAL COMMUNICATION -ASSOCIATE IN APPLIED SCIENCE- WEB PUBLISHING SPECIALIZATION**

| HCCS Course Requirement   | Transfer/Substitution<br>Institution Course | Substitute (SU)<br>Transfer (TR) | Comment/Disapproval | Approval<br>Signature | Date |
|---|---|----------------------------------|---------------------|-----------------------|------|
| FIRST YEAR  |   |                                  |                     |                       |      |
| FIRST SEMESTER  |   |                                  |                     |                       |      |
| ENGL 1301 Composition I   |   |                                  |                     |                       |      |
| SPCH 1321 Business and Professional Speaking                          |   |                                  |                     |                       |      |
| ARTC 1325 Introduction to Computer Graphics                           |   |                                  |                     |                       |      |
| ARTC 1305 Basic Graphic Design  |   |                                  |                     |                       |      |
| IMED 1316 Web Page Design I   |   |                                  |                     |                       |      |
| SECOND SEMESTER   |   |                                  |                     |                       |      |
| IMED 2351 Multimedia Programming                                      |   |                                  |                     |                       |      |
| ETWR 1371 Technical Composition                                       |   |                                  |                     |                       |      |
| IMED 1341 Interface Design  |   |                                  |                     |                       |      |
| ITSE 1356 Extensible Markup Language (XML)                            |   |                                  |                     |                       |      |
| THIRD SEMESTER  |   |                                  |                     |                       |      |
| ITSE 2313 Web Authoring   |   |                                  |                     |                       |      |
| XXXX #3## Social Science General Education Elective                   |   |                                  |                     |                       |      |
| XXXX #3## Math/Natural Science<br>General Education Elective          |   |                                  |                     |                       |      |
| SECOND YEAR   |   |                                  |                     |                       |      |
| FIRST SEMESTER  |   |                                  |                     |                       |      |
| ARTV 2301 2-D Animation I   |   |                                  |                     |                       |      |
| IMED 1375 Writing for the Web   |   |                                  |                     |                       |      |
| IMED 2309 Internet Commerce   |   |                                  |                     |                       |      |
| XXXX #3## Approved Humanities/Fine Arts<br>General Education Elective |   |                                  |                     |                       |      |
| SECOND SEMESTER   |   |                                  |                     |                       |      |
| ARTV 2330 2-D Animation II  |   |                                  |                     |                       |      |
| ITSE 1306 Computer Programming Using Hypertext<br>Preprocessor (PHP)  |   |                                  |                     |                       |      |
| IMED 2349 Internet Communications                                     |   |                                  |                     |                       |      |
| IMED 2388 Internship-Digital Communication<br>and Media/Multimedia    |   |                                  |                     |                       |      |







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| NAME:    | SS#:               | DATE:               |
| COLLEGE: | COUNSELOR/ADVISOR: | CATALOG YEAR: 06-07 |

**TECHNICAL COMMUNICATION-ASSOCIATE IN APPLIED SCIENCE - TECHNICAL COMMUNICATION**

| HCCS Course Requirement   | Transfer/Substitution |        | Substitute (SU)<br>Transfer (TR) | Comment/Disapproval | Approval<br>Signature | Date |
|---|-----------------------|--------|----------------------------------|---------------------|-----------------------|------|
|   | Institution           | Course |                                  |                     |                       |      |
| FIRST YEAR  |                       |        |                                  |                     |                       |      |
| FIRST SEMESTER  |                       |        |                                  |                     |                       |      |
| ENGL 1301 Composition I   |                       |        |                                  |                     |                       |      |
| XXXX #3## Computer Applications Elective*                               |                       |        |                                  |                     |                       |      |
| POFT 1301 Business English OR   |                       |        |                                  |                     |                       |      |
| ENGL 1311 Business English  |                       |        |                                  |                     |                       |      |
| ARTC 1325 Introduction to Computer Graphics                             |                       |        |                                  |                     |                       |      |
| ARTC 1305 Basic Graphic Design  |                       |        |                                  |                     |                       |      |
| SECOND SEMESTER   |                       |        |                                  |                     |                       |      |
| ENGL 1302 Composition II  |                       |        |                                  |                     |                       |      |
| ARTC 2313 Digital Publishing II   |                       |        |                                  |                     |                       |      |
| XXXX #3## Math/Natural Science General Education Elective               |                       |        |                                  |                     |                       |      |
| ETWR 1371 Technical Composition   |                       |        |                                  |                     |                       |      |
| IMED 1316 Web Page Design I   |                       |        |                                  |                     |                       |      |
| 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<br>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<br>General Education Elective   |                       |        |                                  |                     |                       |      |
| SECOND SEMESTER   |                       |        |                                  |                     |                       |      |
| ETWR 1374 Proposal Writing  |                       |        |                                  |                     |                       |      |
| IMED 2388 Internship- Digital Communication<br>and Media/Multimedia     |                       |        |                                  |                     |                       |      |
| XXXX #3## Department Approved Elective                                  |                       |        |                                  |                     |                       |      |

\* The Computer Applications Elective may be chosen from the following courses: ITSE 1309, Integrated Software Applications I; POFI 1301, Computer Applications I; BCIS 1405, Business Computer Applications or COSC 1401, Microcomputer Applications.







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| <b>NAME:</b>    | <b>SS#:</b>               | <b>DATE:</b>               |
| <b>COLLEGE:</b> | <b>COUNSELOR/ADVISOR:</b> | <b>CATALOG YEAR: 06-07</b> |

**DIGITAL GAMING AND SIMULATION FOR ARTISTS-ASSOCIATE IN APPLIED SCIENCE**

| HCCS Course Requirement                                       | Transfer/<br>Institution | Substitution<br>Course | Substitute (SU)<br>Transfer (TR) | Comment/Disapproval | Approval<br>Signature | Date |
|---|--------------------------|------------------------|----------------------------------|---------------------|-----------------------|------|
| FIRST YEAR  |                          |                        |                                  |                     |                       |      |
| FIRST SEMESTER  |                          |                        |                                  |                     |                       |      |
| ENGL 1301 Composition I                                       |                          |                        |                                  |                     |                       |      |
| GAME 1370 Concept Design and Evolution of<br>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   |                          |                        |                                  |                     |                       |      |
| ARTV 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                                       |                          |                        |                                  |                     |                       |      |
| ARTV 1341 3-D Animation I                                     |                          |                        |                                  |                     |                       |      |
| SECOND YEAR   |                          |                        |                                  |                     |                       |      |
| FIRST SEMESTER  |                          |                        |                                  |                     |                       |      |
| GAME 2370 Project Development I                               |                          |                        |                                  |                     |                       |      |
| ARTV 1343 Digital Sound                                       |                          |                        |                                  |                     |                       |      |
| ARTC 1305 Basic Graphic Design                                |                          |                        |                                  |                     |                       |      |
| ARTV 2351 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  |                          |                        |                                  |                     |                       |      |



**HOUSTON COMMUNITY COLLEGE SYSTEM  
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| COLLEGE: | COUNSELOR/ADVISOR: | CATALOG YEAR: 06-07 |

**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                                      |                                   |        |                               |                     |                    |      |
| ARTV 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                                    |                                   |        |                               |                     |                    |      |
| ARTV 1341 3-D Animation I                                  |                                   |        |                               |                     |                    |      |
| SECOND YEAR  |                                   |        |                               |                     |                    |      |
| FIRST SEMESTER   |                                   |        |                               |                     |                    |      |
| GAME 2370 Project Development I                            |                                   |        |                               |                     |                    |      |
| ARTV 1343 Digital Sound                                    |                                   |        |                               |                     |                    |      |
| ARTV 2351 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                                     |                                   |        |                               |                     |                    |      |
|  |                                   |        |                               |                     |                    |      |
|  |                                   |        |                               |                     |                    |      |
|  |                                   |        |                               |                     |                    |      |
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**HOUSTON COMMUNITY COLLEGE SYSTEM  
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**DIGITAL GAMING AND SIMULATION FOR PROGRAMMERS-ASSOCIATE IN APPLIED SCIENCE**

| 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                       |                                   |        |                               |                     |                    |      |
| MATH 1314 College Algebra                                  |                                   |        |                               |                     |                    |      |
| SECOND SEMESTER  |                                   |        |                               |                     |                    |      |
| GAME 1270 Laws of Cyberspace and Ethical Issues            |                                   |        |                               |                     |                    |      |
| GAME 1271 Game Theory                                      |                                   |        |                               |                     |                    |      |
| IMED 1345 Interactive Multimedia I                         |                                   |        |                               |                     |                    |      |
| ARTV 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 Action Script and Python                         |                                   |        |                               |                     |                    |      |
| GAME 1374 Level Design                                     |                                   |        |                               |                     |                    |      |
| SECOND SEMESTER  |                                   |        |                               |                     |                    |      |
| GAME 2375 Project Development II                           |                                   |        |                               |                     |                    |      |
| GAME 2374 Direct X Programming                             |                                   |        |                               |                     |                    |      |
| GAME 2376 Game Testing                                     |                                   |        |                               |                     |                    |      |
| XXXX #3## Social/Behavioral Science Elective               |                                   |        |                               |                     |                    |      |
| XXXX #3## Math/Natural Science Elective                    |                                   |        |                               |                     |                    |      |
| THIRD SEMESTER   |                                   |        |                               |                     |                    |      |
| GAME 2377 Internship                                       |                                   |        |                               |                     |                    |      |





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

\_\_\_ FA \_\_\_ VA

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|----------|--------------------|---------------------|
| NAME:    | SS#:               | DATE:               |
| COLLEGE: | COUNSELOR/ADVISOR: | CATALOG YEAR: 06-07 |

**GEOGRAPHIC INFORMATION SCIENCE - ASSOCIATE IN APPLIED SCIENCE**

| HCCS Course Requirement  | Transfer/Substitution Institution | 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 Appr. Program-Related Elective***               |                                   |        |                               |                     |                    |      |
| XXXX #3## Social Science General Education Elective**                |                                   |        |                               |                     |                    |      |

\*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; GEOL 1305, Environmental Science



