Information Technology Programs Catalog Year - 11-12

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 Database Administration Specialization-AAS
- 9 Database Administration-Marketable Skills Achievement Award

Computer Systems, Networking and Telecommunications

- 10 Network and Computer Systems Administration (MCITPS) Specialization-AAS
- 12 Network and Computer Systems Administration (MCITPS) Specialization- Certificate
- 13 Network and Computer Systems Administration-Marketable Skills Achievement Award
- 14 Network Systems and Computer Security Specialization-AAS
- 16 Network Systems and Computer Security Specialization-Certificate
- 17 Network Systems and Computer Security-Marketable Skills Achievement Award
- 18 Network Systems and Unified Communication Specialization-AAS
- 20 Network Systems and Unified Communication Specialization-Certificate
- 21 Network Systems and Unified Communication-Marketable Skills Achievement Award
- 22 PC Support Specialization AAS
- 23 PC Support- Certificate
- 24 UNIX Specialization- AAS
- 25 UNIX (LINUX)--Marketable Skills Achievement Award
- 26 IBM Enterprise Server- Certificate

Digital Gaming and Simulation

- 27 Digital Gaming and Simulation for Artists-AAS
- 28 Digital Gaming and Simulation for Artists-Certificate (Level I)
- 29 Digital Gaming and Simulation for Artists-Certificate (Level II)
- 30 Digital Gaming and Simulation for Programmers-AAS
- 32 Digital Gaming and Simulation for Programmers-Certificate (Level I)
- 33 Digital Gaming and Simulation for Programmers-Certificate (Level II)
- 34 Digital Gaming and Simulation for Game Designers-AAS
- 35 Digital Gaming and Simulation-Level Design-Enhanced Skills Certificate

Geographic Information Science

- 36 Geographic Information Science-AAS (Deactivated as of September 1, 2011)
- 37 Geographic Information Science Analyst-Certificate
- 38 GIS Technician-Certificate
- 39 Geographic Information Science-Marketable Skills Achievement Award

FAVA EDU			MUNITY COLLECTION OF THE COLLE	GE SYSTEM ITUTION PETITION		Page 1 of 1
NAME: SS#:						
COLLEGE:			COUNSELOR/ADVIS	OR:	CATALOG YEAR	R: 11-12
COMPUTER PROGRAMMIN	NG - AAS -A	APPLICAT	TIONS DEVELOPN	MENT-VISUAL BASIC.NET SPE	CIALIZATION	
HCCS Course Requirement	Transfer/S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
First Semester						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I						
Second Semester						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
ITSE 1432 Introduction to Visual Basic.NET						
ITSE 1346 Database Theory and Design Third Semester						1
XXXX #3## Humanities/Fine Arts General Ed. Elective						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
First Semester						
ENGL 2311 Technical and Industrial Correspondence						
and Report Writing						
ACCT 2301 Principles of Accounting I						

ITSE 1350 System Analysis and Design OR XXXX #3## Department Approved Elective ITSE 1447 Programming with Visual Basic.NET ITSE 1356 Extensible Markup Language (XML) SECOND SEMESTER SOCI 1301 Introduction to Sociology ACCT 2302 Principles of Accounting II ITSE 2434 Advanced Visual Basic.NET Programming INEW 1340 ASP.NET Programming ITSE 1380 Cooperative Education- Computer Programming

FAVA EDUC				LEGE SYSTEM SSTITUTION PETITION		Page 1 of 1
NAME:	DATE:					
COLLEGE:			COUNSELOR/AI	OVISOR:	CATALOG YEAR:	:11-12
COMPUTER PROGRAMMING -	VISUAL BASIC .NET					
HCCS Course Requirement	Transfer/Su Institution	ıbstitution Course	Approval Signature	Date		
FIRST SEMESTER						
ITSE 1432 Introduction to Visual Basic.NET Programming						
ITSE 1447 Programming with Visual Basic.NET						
SECOND SEMESTER						
ITSE 2434 Advanced Visual Basic.NET Programming						
INEW 1340 ASP.NET Programming						
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Students must have significant recent work experience. S	bee catalog for	details				
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Department Approval Signature:						
Print Name: Date: _						

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FAVA EDU		Page 1 of 1				
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/AI	DVISOR:	CATALOG YEAR	: 11-12
COMPUTER PROGRAM	IMING - AA	S -APPLI	CATIONS DE	VELOPMENT- MICROSOFT C# SF	PECIALIZATION	
HCCS Course Requirement	Transfer/Su Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
First Semester						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						ļ
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I (with C#)						
Second Semester						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1437 Programming Fundamentals II (with C#)						
ITSE 1346 Database Theory and Design						
THIRD SEMESTER						

XXXX #3## Humanities/Fine Arts General Ed. Elective

SPCH 1311 Fundamentals of Speech OR SPCH 1315 Public Speaking OR

SOCI 1301 Introduction to Sociology

ITSE 2453 Advanced C# Programming INEW 1340 ASP.NET Programming

SECOND YEAR
FIRST SEMESTER

SECOND SEMESTER

SPCH 1321 Business and Professional Speaking

ENGL 2311 Technical and Industrial Correspondence
and Report Writing

XXXX #3## Department Approved Business Elective

XXXX #3## Department Approved Elective OR

ITSE 1350 System Analysis and Design

ITSE 1430 Introduction to C# Programming

ITSE 1356 Extensible Markup Language (XML)

XXXX #3## Department Approved Business Elective

ITSE 1380 Cooperative Education- Computer Programming

FAVA EDU				LEGE SYSTEM STITUTION PETITION		Page 1 of 1
NAME: SS#:						
COLLEGE:			COUNSELOR/AD	VISOR:	DATE: CATALOG YEAR:	:11-12
COMPUTER PROGRAM	IMING - MA	ARKETA	BLE SKILLS A	CHIEVEMENT AWARD - MIC	ROSOFT C#	
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST SEMESTER						
ITSE 1430 Introduction to C# Programming						
ITSE 1356 Extensible Markup Language (XML)						<u> </u>
SECOND SEMESTER						_
ITSE 2453 Advanced C# Programming						<u> </u>
INEW 1340 ASP.NET Programming			-			
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A student can earn only one MSA per academic year.						<u> </u>
A student can earn only one WSA per academic year.						<u> </u>
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Students must have significant recent work experience. S	See catalog for	details				
Students must have signmeant recent work experience.	occ catalog for	uctaiis.				_
Department Approval Signature:						<u> </u>
			 			
Print Name: Date:			 			

FAVA EDU			MUNITY COLLEGANSFER SUBST	GE SYSTEM ITUTION PETITION		Page 1 of 1
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/ADVIS	OR:	CATALOG YEAR	R: 11-12
COMPUTER PROGRA	AMMING - A	AAS -APPI	LICATIONS DEV	ELOPMENT- JAVA SPECIALIZA	ATION	
HCCS Course Requirement	Transfer/S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I (with Java)						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1437 Programming Fundamentals II (with Java)						
ITSE 1346 Database Theory and Design						
THIRD SEMESTER						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
First Semester						

ENGL 2311 Tech. & Ind. Correspondence & Report Writing XXXX #3## Department Approved Business Elective

ITSE1350System Analysis and Design ORXXXX#3##Department Approved ElectiveITSE1345Introduction to Oracle SQL

ITSE 1356 Extensible Markup Language (XML)

XXXX #3## Department Approved Business Elective
INEW 2418 Web Programming Using JavaServer Pages

ITSE 1380 Cooperative Education- Computer Programming

SOCI 1301 Introduction to Sociology

and Servlets

INEW 2438 Advanced Java Programming

SECOND SEMESTER

HOUSTON COMMUNITY COLLEGE SYSTEM — FAVA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION							
NAME:			SS#:		DATE:		
COLLEGE:			COUNSELOR/ADVIS	OR:	CATALOG YEAR	 R: 11-12	
COMPUTER PRO	GRAMMING	G - MARK	ETABLE SKILLS	ACHIEVEMENT AWARD - JAV	A		
HCCS Course Requirement	Transfer/Si Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date	
FIRST SEMESTER							
ITSE 2417 Java Programming							
ITSE 2418 Web Programming Using JavaServer						_	
Pages and Servlets						_	
SECOND SEMESTER			<u> </u>				
INEW 2438 Advanced Java Programming			<u> </u>			-	
ITSE 1345 Introduction to Oracle- SQL			<u> </u>			-	
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A student can earn only one MSA per academic year.						-	
A student can earn only one MSA per academic year.	-		<u> </u>			+	
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Students must have significant recent work experience	e. See catalog for	details.	H			-	
Department Assurance Science			 			+	
Department Approval Signature:						 	
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HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

FAVA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION							
NAME:	SS#:	DATE:					
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 11-12					

COLLEGE.			COUNSLLON	IDVISON.	CAIALOG ILAN.	11-12
COMPUTER SCIEN	NCE TECH	NOLOGY	- AAS - DATA	ABASE ADMINISTRATION SPECIALIZA	TION	
HCCS Course Requirement	Transfer/S	ubstitution	Substitute (SU	Comment Disapprovar	Approval	Date
TSI testing is required prior to first enrollment.	Institution	Course	Transfer (TR)		Signature	
FIRST YEAR				This AAS degree has been deactivated as		
FIRST SEMESTER				of August 15, 2010. New students will not		
LEAD 1200 Workforce Development with Critical Thinking				be admitted into the program.		
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
COSC 1436 Programming Fundamentals I						
Second Semester						
ENGL 1302 Composition II						
SOCI 1301 Introduction to Sociology						
COSC 1437 Programming Fundamentals II OR						
ITSE 2354 Advanced Oracle PL/SQL						
ITSE 1346 Database Theory and Design						
ITSE 1345 Introduction to Oracle SQL						
THIRD SEMESTER						
ITSC 1307 Unix Operating System I (using LINUX)						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
First Semester						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
ITSC 1458 UNIX System Administration I OR						
ITNW 1425 Fundamentals of Networking Technologies						
MATH 1324 Finite Mathematics with Applications						
XXXX #3## Department Approved Elective OR						
ITSE 1350 System Analysis and Design						
ITSE 2456 Oracle Database Administration I						
Second Semester						
ENGL 2311 Tech. & Ind. Correspondence & Report Writing						
ITSE 2444 Oracle Database Structure and Data Warehousing						
ITSE 2458 Oracle Database Administration II						
ITSE 1380 Cooperative Education - Computer Programming						
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FAVA EDU			MUNITY COLL RANSFER SUBS	EGE SYSTEM STITUTION PETITION		Page 1 of 1
NAME:	SS#:					
COLLEGE:						
COMPUTER SCIENCE TECHNOL	OGY- MAR	KETABL	E SKILLS ACHI	EVEMENT AWARD - DATABA	SE ADMINISTRATION	
HCCS Course Requirement	Transfer/S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
First Semester						
ITSE 2354 Advanced Oracle PL/SQL						
ITSE 2456 Oracle Database Administration I (10g)						
SECOND SEMESTER						
ITSE 2458 Oracle Database Administration II (10g)						
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A student can earn only one MSA per academic year.	-		-			
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Students must have significant recent work experience.	Saa aatalaa fa	r details				
Students must have significant recent work experience.	oct catalog 10.	i uctails.				
Department Approval Signature:						
						
Print Name: Date:			 			

FAVA EDUO				LEGE SYSTEM STITUTION PETITION		Page 1 of 2
NAME:	CATIONAL	LANT	SS#:	SITIUTION	DATE:	
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COLLEGE:			COUNSELOR/AD		CATALOG YEAR	
COMPUTER SYS., NETWORKING AND TEL	E AAS- N	ETWOR	K AND COMPU	TER SYSTEMS ADMINISTRATION	ON (MCITP) SPECIA	LIZATION
HCCS Course Requirement	Transfer/Su Institution	ibstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITMT 1371 Windows 7 Configuration						
Second Semester						

ENGL 1302 Composition II

ITNW 1358 Network+ OR

THIRD SEMESTER

SECOND YEAR
FIRST SEMESTER

(Continued on page 2)

ITMT 2302 Windows Server 2008:

COSC 1436 Programming Fundamentals I
SPCH 1311 Fundamentals of Speech OR
SPCH 1315 Public Speaking OR

SOCI 1301 Introduction to Sociology

ITSC 1319 Internet/Web Page Development

Configuration

ITSY 1342 Information Technology Security

SPCH 1321 Business and Professional Speaking

XXXX #3## Humanities/Fine Arts General Ed. Elective

ITMT 2301 Windows Server 2008 Network Infrastructure

MATH1324Finite Mathematics with ApplicationsITSC1425Personal Computer Hardware ORCPMT1411Introduction to Computer MaintenanceITNW1425Fundamentals of Neworking Technologies OR

ITCC 1401 Cisco Exploration 1-Network Fundamentals

Active Directory Configuration

FAVA EDU				LLEGE SYSTEM BSTITUTION PETITION		Page 2 of 2
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/A	DVISOR:	CATALOG YEAR:	11-12
COMPUTER SYS., NETWORKING AND TEL	LE AAS- N					
HCCS Course Requirement	Transfer/Si Institution		Substitute (SU) Transfer (TR)		Approval Signature	Date
Second Semester						
ENGL 2311 Technical and Industrial Correspondence	_					
and Report Writing						
XXXX #3## Approved Business Elective	<u> </u>					
ITMT 2351 Windows Server 2008: Server Administrator	-		-			
ITNW 1380 Cooperative Education - Computer Systems Networking and Telecommunications						
Networking and Telecommunications			-			
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FAVA EDUC				LLEGE SYSTEM BSTITUTION PETITION		Page 1 of 1
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/A	DVISOR:	CATALOG YEA	R: 11-12
COMPUTER SYS., NETWORK. TELE CERTI	FICATE-N	ETWOR	K AND COMPI	UTER SYSTEMS ADMINISTRAT	TION (MCITP) SPECIA	LIZATION
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU)		Approval Signature	Date
TSI testing is required prior to first enrollment.						
First Semester						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITMT 1371 Windows 7 Configuration						
Second Semester						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
ITSC 1425 Personal Computer Hardware OR						_
CMPT 1411 Introduction to Computer Maintenance						-
ITNW 1425 Fundamentals of Neworking Technologies OR						_
ITNW 1358 Network+ OR						-
ITCC 1401 Cisco Exploration I - Network Fundamentals						-
ITMT 2302 Windows Server 2008						-
Active Directory Configuration						

FAVAEI			LEGE SYSTEM BSTITUTION PETITION		Page 1 of 1
NAME:		SS#:		DATE:	
COLLEGE:		COUNSELOR/AI	OVISOR:	CATALOG YEAR	
NETWORK AND COMPUT	TER SYSTEMS ADMI	NISTRATION-M	IARKETABLE SKILLS ACHIEVEME	NT AWARD	
HCCS Course Requirement	Transfer/Substitutio Institution Course	Substitute (SU)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR					
First Semester					
ITMT 1371 Windows 7 Configuration					
ITMT 2302 Windows Server 2008					
Active Directory Configuration					
Second Semester					
ITMT 2301 Windows Server 2008:					
Network Infrastructure Configuration					
ITMT 2351 Windows Server 2008:					
Server Administrator					
A student can only earn one MSA per academic year.					
					
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FAVA EDU				LEGE SYSTEM BSTITUTION PETITION		Page 1 of 2
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/AI	OVISOR:	CATALOG YEAR	R: 11-12
COMPUTER SYS., NETWORKING	AND TELE	E-AAS-N				
HCCS Course Requirement	Transfer/Su Institution			Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITNW 1425 Fundamentals of Neworking Technologies OR						
ITNW 1358 Network+ OR						
ITCC 1401 Cisco Exploration 1-Network Fundamentals						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
ITSY 1342 Information Technology Security						
ITSC 1307 UNIX Operating System I OR						
ITMT 1371 Windows 7 Configuration						
Third Semester						
COSC 1436 Programming Fundamentals I						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
First Semester						
SOCI 1301 Introduction to Sociology						
ITSC 1319 Internet/Web Page Development						
ITSY 2300 Operating System Security						
ITSC 1425 Personal Computer Hardware OR						
CPMT 1411 Introduction to Computer Maintenance						
ITMT 2302 Windows Server 2008:						
Active Directory Configuration OR						

ITSC 1458 UNIX System Administration I

(Continued on page 2)

FAVA EDU				LEGE SYSTEM BSTITUTION PETITION		Page 2 of 2	
NAME:			SS#:		DATE:		
COLLEGE:			COUNSELOR/A	DVISOR:	CATALOG YEAR: 11-12		
COMPUTER SYS., NETWORKING AND TEL	EAAS-NE	 ΓWORK	SYSTEMS ANI	D COMPUTER SECURITY SPE	CIALIZATION COMPUT	TER SYS	
HCCS Course Requirement	Transfer/St Institution	ubstitution	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date	
SECOND SEMESTER							
ENGL 2311 Technical and Industrial Correspondence and Report Writing							
ITSY 2330 Intrusion Detection							
XXXX #3## Approved Business Elective ITSY 2343 Computer System Forensics							
ITNW 1380 Cooperative Education-Computer Systems			_				
Networking and Telecommunications							
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FAVA EDU0				LEGE SYSTEM STITUTION PETITION		Page 1 of 1
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/AD	VISOR:	CATALOG YEAR:	11-12
COMPUTER SYS., NETWORKING AND	TELE -CEI				I	
HCCS Course Requirement	Transfer/S Institution	ubstitution	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
ITSY 1342 Information Technology Security						
ITNW 1425 Fundamentals of Neworking Technologies OR						
ITNW 1358 Network+ OR						
ITCC 1401 Cisco Exploration 1-Network Fundamentals						
ITSC 1307 UNIX Operating System I OR						
ITMT 1371 Windows 7 Configuration						
Second Semester						
ITSC 1425 Personal Computer Hardware OR						
CPMT 1411 Introduction to Computer Maintenance						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
ITSY 2300 Operating System Security						
ITSY 2330 Intrusion Detection						
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FAVAE			LEGE SYSTEM BSTITUTION PETITION		Page 1 of 1
NAME:		SS#:		DATE:	
COLLEGE:		COUNSELOR/A	DVISOR:	CATALOG YEAR	R: 11-12
NETWORK SYSTEM	IS AND COMPUTER S	ECURITY-MAR	KETABLE SKILLS ACHIEVEMENT	AWARD	_
HCCS Course Requirement	Transfer/Substitution Institution Course	Substitute (SU)		Approval Signature	Date
FIRST YEAR					
First Semester					
ITSY 1342 Information Technology Security					
ITSY 2300 Operating System Security					
Second Semester					
ITSY 2330 Intrusion Detection					
ITSY 2343 Computer System Forensics					
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A student can only earn one MSA per academic year.					
					
					
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FAVA EDU			IMUNITY COLLEG RANSFER SUBSTI	E SYSTEM TUTION PETITION	Page 1 of	
NAME:			SS#:		DATE: CATALOG YEAR: 11-12	
COLLEGE:			COUNSELOR/ADVISO	OR:		
COMPUTER SYS., NETWORKING AN	ID TELE -AAS-	NET				
HCCS Course Requirement	Transfer/Substitution Institution Course		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
First Semester						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITCC 1401 Cisco Exploration 1-Network Fundamentals						
SECOND SEMESTER						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
ITCC 1404 Cisco Exploration 2-Routing						
Protocols and Concepts						
ITSC 1307 UNIX Operating System I OR						
ITMT 1371 Windows 7 Configuration						
Third Semester						
COSC 1436 Programming Fundamentals I						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
First Semester						
SOCI 1301 Introduction to Sociology						
ITSC 1319 Internet/Web Page Development						
ITCC 2408 Cisco Exploration 3-LAN						
Switching and Wireless						
ITCC 1408 Introduction to Voice over Internet Protocol						
(VoIP)						
ITMT 2302 Windows Server 2008						

Active Directory Configuration OR

ITSC 1458 UNIX System Administration I

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FAVA	EDUC				LLEGE SYSTEM BSTITUTION PETITION		Page 2 of 2
NAME:				SS#:		DATE:	
COLLEGE:				COUNSELOR/A	DVISOR:	CATALOG YEA	R: 11-12
I	SYS., NETWORKING AND TELI	EAAS-NE	TWORK			N SPECIALIZATION CO	OMPUTER
	CS Course Requirement	Transfer/Si Institution	ubstitution	Substitute (SU) Transfer (TR)		Approval Signature	Date
SECOND SEMESTER			Ī				
ENGL 2311 Techn	nical and Industrial Correspondence and ort Writing						
1	anced Voice Over Internet Protocol (VoIP)						
ITCC 2410 Cisco	Exploration 4-Accessing the WAN						
ITNW 1380 Coop	perative Education-Computer Systems						
Netw	vorking and Telecommunications						
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FAVA EDU		OMMUNITY COI N/TRANSFER SU	LLEGE SYSTEM BSTITUTION PETITION		Page 1 of 1
NAME:		SS#:		DATE:	
COLLEGE:		COUNSELOR/A	DVISOR:	CATALOG YEAR	 R: 11-12
COMPUTER SYS., NETWORKING AND TE	LECERTIFICAT	E-NETWORK S	YSTEMS AND UNIFIED COMMU	NICATION SPECIALI	ZATION
HCCS Course Requirement	Transfer/Substitut Institution Cou	ion Substitute (SU)		Approval Signature	Date
TSI Testing is required prior to first enrollment.					
FIRST SEMESTER					
LEAD 1200 Workforce Development with Critical Thinking					
ENGL 1301 Composition I					
MATH 1314 College Algebra					
ITCC 1401 Cisco Exploration 1-Network Fundamentals					
ITSC 1307 UNIX Operating System I OR					
ITMT 1371 Windows 7 Configuration					
Second Semester					
ITSC 1319 Internet/Web Page Development					
XXXX #3## Humanities/Fine Arts General Ed. Elective					
ITCC 1404 Cisco Exploration 2-Routing					
Protocols and Concepts					
ITCC 1408 Introduction to Voice over Internet					
Protocol (VoIP)					
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FAVA ED			MUNITY COLL RANSFER SUBS	EGE SYSTEM STITUTION PETITION		Page 1 of 1
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/ADV	/ISOR:	CATALOG YEAR	: 11-12
NETWORK SYSTEMS AND UNIFIED	COMMUNI	CATION	SPECIALIZATIO	ON-MARKETABLE SKILLS ACI	HIEVEMENT AWARD)
HCCS Course Requirement	Transfer/S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
First Semester						
ITCC 1401 Cisco Exploration 1-Network Fundamentals						
ITCC 1404 Cisco Exploration 2-Routing Protocols and						
Concepts						
ITCC 2408 Cisco Exploration 3-LAN Switching						
and Wireless						
ITCC 2410 Cisco Exploration 4-Accessing the WAN						
A student can only earn one MSA per academic year.						ļ
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FAVA EDU			MUNITY COLLEG RANSFER SUBSTI	GE SYSTEM ITUTION PETITION	Page 1 of 1	
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/ADVIS	OR:	CATALOG YEAR	R: 11-12
COMPUTER SYS., NETW	ORKING A	AND TELI	ECOMMUNICATION	ONS- AAS- PC SUPPORT SPEC	IALIZATION	
HCCS Course Requirement	1	ubstitution	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
First Semester						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Applications						
ITNW 1425 Fundamentals of Neworking Technologies						
Second Semester						
ENGL 1302 Composition II						
MATH 1324 Finite Mathematics with Applications						
COSC 1436 Fundamentals of Programming I						
ITSC 1321 Intermediate PC Operating Systems OR						
ITMT 1371 Windows 7 Configuration						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
THIRD SEMESTER (SUMMER)						
ITSC 2321 Integrated Software Applications II (Adv. Word)						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
SECOND YEAR						
First Semester						
XXXX #3## Approved Business Elective						
ITSC 1425 Personal Computer Hardware OR						1

CPMT 1411 Introduction to Computer Maintenance

ENGL 2311 Tech. & Ind. Correspondence & Report Writing

ITSC 1380 Cooperative Education- Computer & Infor. Sci.

ITSC 1307 UNIX Operating System I ITSW 2334 Advanced Spreadsheets

SOCI 1301 Introduction to Sociology

XXXX #3## Approved Business Elective

ITSW 2337 Advanced Database

SECOND SEMESTER

FAVA EDU0				LEGE SYSTEM BSTITUTION PETITION		Page 1 of 1
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/AI	OVISOR:	CATALOG YEAR	 ₹: 11-12
	NETWORK	ING AN		UNICATIONS - CERTIFICATE -		
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
BCIS 1405 Business Computer Application						
ITNW 1425 Fundamentals of Neworking Technologies						
SECOND SEMESTER						
SPCH 1311 Fundamentals of Speech OR						
SPCH 1315 Public Speaking OR						
SPCH 1321 Business and Professional Speaking						
ITSC 1425 Personal Computer Hardware OR						
CPMT 1411 Introduction to Computer Maintenance						
ITSC 1321 Intermediate PC Operating Systems						
ITSW 2334 Advanced Spreadsheets						
ITSW 2337 Advanced Database						
						
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	Page 1 of 1
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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: 11-12

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LEGE:			COUNSELOR/AI	OVISOR:	CATALOG YEAR	CATALOG YEAR: 11-12	
COMPUTER SYS., NET	WORKING	AND TE	LECOMMUNI	CATIONS - AAS - UNIX SPECIALIZ	ZATION		
HCCS Course Requirement	Transfer/S Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date	
TSI Testing is required prior to first enrollment.							
FIRST YEAR							
First Semester							
LEAD 1200 Workforce Development with Critical Thinking							
ENGL 1301 Composition I							
MATH 1314 College Algebra							
BCIS 1405 Business Computer Applications							
ITNW 1425 Fundamentals of Neworking Technologies							
SECOND SEMESTER							
ENGL 1302 Composition II							
MATH 1324 Finite Mathematics with Applications	ļ						
COSC 1436 Programming Fundamentals I	ļ						
ITSC 1307 Unix Operating System I	ļ						
ITSC 1425 Personal Computer Hardware OR	ļ						
CPMT 1411 Introduction to Computer Maintenance	<u> </u>					<u> </u>	
Third Semester (Summer)	<u> </u>					<u> </u>	
SPCH 1311 Fundamentals of Speech OR	<u> </u>					<u> </u>	
SPCH 1315 Public Speaking OR	<u> </u>					<u> </u>	
SPCH 1321 Business and Professional Speaking	<u> </u>					<u> </u>	
XXXX #3## Humanities/Fine Arts General Ed. Elective	ļ					<u> </u>	
SECOND YEAR	ļ					<u> </u>	
First Semester	ļ					<u> </u>	
ITSC 1342 Shell Programming	ļ					<u> </u>	
ENGL 2311 Technical and Industrial Correspondence	ļ					 	
and Report Writing	ļ					 	
ITSC 1458 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 Coop. Education-Computer & Infor. Sciences							

FAVA			MUNITY COLLECTION OF THE COLLE	GE SYSTEM ITUTION PETITION		Page 1 of 1	
NAME:			SS#:		DATE:	DATE:	
COLLEGE:			COUNSELOR/ADVIS	OR:	CATALOG YEAR	R: 11-12	
COMPUTER SYS., NETWORKING ANI) TELECOMM						
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date	
FIRST YEAR							
First Semester							
ITSC 1307 UNIX Operating System I							
ITSC 1458 UNIX System Administration I							
Second Semester							
ITSC 1342 Shell Programming							
ITSC 1447 UNIX System Administration II							
A student can only earn one MSA per academic year.							
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Students must have significant recent work experien	ice. See catalog for	details.	 			1	
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Department Approval Signature:			H			1	
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Print Name: Da	ແປ.		H		 	†	

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NAME:		SS#:		DATE:		
COLLEGE:			COUNSELOR/ADV	/ISOR:	CATALOG YEAR	: 11-12
COMPUTER SYS., NETWORK	KING AND	TELECO				
HCCS Course Requirement	Transfer/Si Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
Prerequisite Semester						
ITSC 1301 Introduction to Computers						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ITSC 1370 Introduction to Enterprise Servers						ļ
ITSC 1316 Linux Installation and Configuration						ļ
Second Semester						ļ
ITSC 1302 Computer Control Language						ļ
ITSE 1402 Computer Programming (CICS)						ļ
THIRD SEMESTER						<u> </u>
ITSE 2337 Assembly Language Programming						ļ
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FAVA EDUC				LEGE SYSTEM SSTITUTION PETITION		Page 1 of 1
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/AD	OVISOR:	CATALOG YEAR	: 11-12
DIGITAL GAMING	AND SIMU	ULATION	N FOR ARTIST	S-ASSOCIATE IN APPLIED SCIE	NCE	
HCCS Course Requirement TSI testing is required prior to first enrollment.	Transfer/Substitution Institution Course		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
First Semester						
LEAD 1200 Workforce Development with Critical Thinking ENGL 1301 Composition I						
GAME 1306 Design and Creation of Games						
GAME 1371 Introduction to Game 2D Art GAME 1372 Game Programming for Non-Programmers						
GAME 1336 3D Game Modeling						

SECOND SEMESTER

THIRD SEMESTER

SECOND YEAR
FIRST SEMESTER

SECOND SEMESTER

THIRD SEMESTER

GAME 1302 Interactive Storyboarding
GAME 1375 Principles of Game Concept Art

GAME 2336 Lighting, Shading, and Texture
GAME 2378 Techniques of Game Art

GAME 1374 Introduction to 3D Game Animation

XXXX #3## Social/Behavioral Science General Ed. Elective

XXXX #3## Math/Natural Science General Ed. Elective

GAME 2386 Internship- Animation, Interactive Technology,
Video Graphics and Special Effects

GAME 2312 Interactive Audio

GAME 1304 Level Design

GAME 2332 Project Development I
GAME 1314 Character Sculpting
GAME 2325 3D Animation II
ARTS 2323 Life Drawing I

GAME 2334 Project Development II
ARTS 2324 Life Drawing II

GAME 2308 Portfolio Game Development

GAME 2372 Emerging Game Technology

FAVA EDUC				LEGE SYSTEM BSTITUTION PETITION		Page 1 of 1
NAME:		DATE:				
COLLEGE:			COUNSELOR/A	DVISOR:	CATALOG YEAR	: 11-12
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HCCS Course Requirement	Transfer/St Institution		Substitute (SU) Transfer (TR)		Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
First Semester						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
GAME 1306 Design and Creation of Games						
GAME 1371 Introduction to 2D Game Art						
GAME 1372 Game Programming for Non-Programmers						
GAME 1336 3D Game Modeling						
Second Semester						
GAME 1212 Game Theory						
GAME 1302 Interactive Storyboarding						
GAME 1375 Principles of Game Concept Art						
GAME 2312 Interactive Audio						
GAME 2378 Techniques of Game Art						
Third Semester						
GAME 1304 Level Design						ļ
GAME 1374 Introduction to 3D Game Animation						ļ
GAME 2332 Project Development I						ļ
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NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/AI	OVISOR:	CATALOG YEAR:	11-12
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HCCS Course Requirement	Transfer/Si Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.		1				
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
GAME 1306 Design and Creation of Games						
GAME 1371 Introduction to 2D Game Art						
GAME 1372 Game Programming for Non-Programmers						
GAME 1336 3D Game Modeling						
Second Semester						
GAME 1212 Game Theory						
GAME 1302 Interactive Storyboarding						
GAME 1375 Principles of Game Concept Art						
GAME 2312 Interactive Audio						
GAME 2378 Techniques of Game Art						
THIRD SEMESTER						
GAME 1304 Level Design						
GAME 1374 Introduction to 3D Game Animation						
SECOND YEAR						
First Semester	_					
GAME 2332 Project Development I						
GAME 1314 Character Sculpting						
GAME 2325 3D Animation II-Character Setup						
ARTS 2323 Life Drawing I						
XXXX #3## Social/Behavioral Science General Ed. Elective	ļ					
Second Semester						
GAME 2308 Portfolio for Game Development		ļ				
GAME 2334 Project Development II	 					
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FAVA	MMUNITY COLLEGE SYSTEM FRANSFER SUBSTITUTION PETITION	Page 1 of 2
NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 11-12

DIGITAL GAMING AND SIMULATION FOR PROGRAMMERS-ASSOCIATE IN APPLIED SCIENCE Approval Transfer/Substitution Substitute (SU) **HCCS Course Requirement** Comment/Disapproval Date Transfer (TR) Signature Institution Course TSI testing is required prior to first enrollment. FIRST YEAR FIRST SEMESTER LEAD 1200 Workforce Development with Critical Thinking ENGL 1301 Composition I GAME 1306 Design and Creation of Games GAME 1371 Introduction to 2D Game Art COSC 1436 Programming Fundamentals I MATH 1314 College Algebra SECOND SEMESTER GAME 1336 3D Game Modeling GAME 2312 Interactive Audio GAME 2347 Advanced Game Programming GAME 2302 Mathematical Applications for Game Development XXXX #3## Social/Behavioral Science General Ed. Elective THIRD SEMESTER GAME 1304 Level Design GAME 2373 2D Game Programming SECOND YEAR FIRST SEMESTER GAME 2332 Project Development I GAME 2341 Game Scripting GAME 2342 Game Development Using C++ GAME 2319 Game Engine XXXX #3## Humanities/Fine Arts General Ed. Elective SECOND SEMESTER GAME 2334 Project Development II GAME 2344 Direct X Programming GAME 2308 Portfolio Game Development XXXX #3## Math/ Natural Science General Ed. Elective GAME 2372 Emerging Game Technology (Continued on page 2)

HOUSTON COMMUNITY COLLEGE SYSTEM — FAVA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION											
NAME:			SS#:		DATE:						
COLLEGE:			COUNSELOR/AI	OVISOR:	CATALOG YEAR	:11-12					
DIGITAL GAMING AND SIMULATION FOR PROGRAMMERS-ASSOCIATE IN APPLIED SCIENCE											
HCCS Course Requirement	Transfer/Su Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date					
THIRD SEMESTER											
GAME 2386 Internship- Animation, Interactive Technology,											
Video Graphics and Special Effects											
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HOUSTON COMMUNITY COLLEGE SYSTEM FAVA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION										
NAME:			SS#:		DATE:					
COLLEGE:			COUNSELOR/A	OVISOR:	CATALOG YEAR	: 11-12				
DIGITAL GAMING AND SIMULATION FOR PROGRAMMERS-CERTIFICATE (LEVEL I)										
HCCS Course Requirement	Transfer/Su Institution			Comment/Disapproval	Approval Signature	Date				
TSI testing is required prior to first enrollment.										
FIRST YEAR										
First Semester										
LEAD 1200 Workforce Development with Critical Thinking										
ENGL 1301 Composition I						<u> </u>				
GAME 1306 Design and Creation of Games						ļ				
GAME 1371 Introduction to 2D Game Art										
COSC 1436 Programming Fundamentals I						ļ				
MATH 1314 College Algebra						ļ				
Second Semester						ļ				
GAME 1212 Game Theory						ļ				
GAME 1336 3D Game Modeling						ļ				
GAME 2312 Interactive Audio						ļ				
GAME 2347 Advanced Game Programming						ļ				
GAME 2302 Mathematical Applications for						 				
Game Development						 				
GAME 1304 Level Design						<u> </u>				
THIRD SEMESTER						 				
GAME 2342 Game Development Using C++						<u> </u>				
GAME 2332 Project Development I						 				
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NAME:			DATE:			
COLLEGE:			COUNSELOR/ADVISO	OR∙	CATALOG YEAR	R· 11-12
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HCCS Course Requirement	Transfer/St Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
First Semester						
LEAD 1200 Workforce Development with Critical Thinking	3					
ENGL 1301 Composition I						
GAME 1306 Design and Creation of Games						
GAME 1371 Introduction to 2D Game Art						
COSC 1436 Programming Fundamentals I						
MATH 1314 College Algebra						
Second Semester						
GAME 1212 Game Theory						
GAME 1336 3D Game Modeling						
GAME 2312 Interactive Audio						
GAME 2347 Advanced Game Programming						
GAME 2302 Mathematical Applications for						
Game Development						
SECOND YEAR						
First Semester						
GAME 2332 Project Development I						
GAME 2341 Game Scripting						
GAME 2342 Game Development Using C++						
GAME 2319 Game Engine						
Second Semester						
GAME 1304 Level Design						
GAME 2344 Direct X Programming						
GAME 2308 Portfolio for Game Development						
GAME 2334 Project Development II						
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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: 11-12

COLLEGE:	COUNSELOR/ADVISOR:		DVISOR:	CATALOG YEAR	:11-12	
DIGITAL GAMING AND	SIMULAT	ION FOR	GAME DESIG	GNERS-ASSOCIATE IN APPLIED SCI	ENCE	
HCCS Course Requirement	Transfer/S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.	mstitution	Course	Transfer (11t)			
FIRST YEAR			ļ			<u> </u>
First Semester						_
LEAD 1200 Workforce Development with Critical Thinking						<u> </u>
ENGL 1301 Composition I						
GAME 1306 Design and Creation of Games						
GAME 1371 Introduction to 2D Game Art						
GAME 1372 Game Programming for Non-Programmers						
GAME 1336 3D Game Modeling						
SECOND SEMESTER						
GAME 1212 Game Theory						
GAME 1302 Interactive Storyboarding						
GAME 2312 Interactive Audio						
GAME 2373 2D Game Programming						
GAME 1335 Interactive Writing I						
THIRD SEMESTER						
GAME 1304 Level Design						
GAME 2338 Game Testing						
SECOND YEAR						
First Semester						
GAME 2332 Project Development I						
GAME 2305 Interactive Writing II						
XXXX #3## Math/Natural Science Elective						
SOCI 1301 Introduction to Sociology						
XXXX #3## Humanities/Fine Arts Elective						
SECOND SEMESTER						
GAME 2334 Project Development II						
GAME 2336 Lighting, Shading and Texture						
GAME 2308 Portfolio Game Development						
XXXX #3## Foreign Language						
GAME 2372 Emerging Game Technology						
Third Semester						
GAME 2386 Internship- Animation, Interactive Technology,						
Video Graphics and Special Effects						
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HOUSTON COMMUNITY COLLEGE SYSTEM FAVA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION							
NAME: SS#:							
COLLEGE:							
	SKILLS CERTIFICATE-LEVEL DESIGN	CATALOG YEAR:					
HCCS Course Requirement	Transfer/St Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date	
First Semester							
GAME 1304 Level Design							
GAME 2304 Level Design II							
GAME 2371 Level Design III							
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HOUSTON COMMUNITY COLLEGE SYSTEM Page 1 of 1									
FAVA EDUC				SSTITUTION PETITION		Page 1 01 1			
NAME:			SS#:		DATE:				
COLLEGE:			COUNSELOR/AD	DVISOR:	CATALOG YEAR	: 11-12			
GEOGRAPH	IC INFORM	IATION :	SCIENCE - AS	SOCIATE IN APPLIED SCIENCE					
HCCS Course Requirement	Transfer/Su	bstitution	Substitute (SU)	Comment/Disapproval	Approval	Date			
TSI testing is required prior to first enrollment.	Institution	Course	Transfer (TR)		Signature				
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking									
ENGL 1301 Composition I									
MATH 1314 College Algebra									
DFTG 1305 Technical Drafting									
TSC 1301 Introduction to Computers									
GISC 1411 Introduction to GIS									
SECOND SEMESTER									
MATH 1316 Plane Trigonometry									
COSC 1436 Programming Fundamentals I									
DFTG 1309 BASIC Computer-Aided Drafting									
GISC 1401 Cartography and Geography in GIS/GPS									
GISC 1421 Introduction to Raster-Based GIS									
SECOND YEAR									
FIRST SEMESTER									
TSE 1346 Database Theory and Design OR									
TSE 1345 Introduction to Oracle SQL				This AAS degree will be deactivated as of					
GEOL 1403 Physical Geology				September 1, 2011. New students will not be					
GISC 1491 Special Topics in Cartography				admitted into the program.					
GISC 2401 Data Acquisition and Analysis in GIS									
ETWR 2301 Technical Writing OR									
ENGL 2311 Tech. & Ind. Correspondence & Report Writing									
SECOND SEMESTER									
GISC 2411 Geographic Info. Systems (GIS) Applications									
XXXX #3## Department Appr. Computer Science*OR									
XXXX #3## Graphic Design Elective*									
XXXX #3## Humanities/Fine Arts Elective									
XXXX #3## Social/Behavioral Science Elective**									
GISC 2380 Cooperative Education- Cartography OR									
GISC 2364 Practicum (or Field Experience) Cartography									
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^{*}Department Approved Computer Science OR Graphic Design Elective- (Choose 1) ITSE 1432, Intro to Visual Basic NET Programming; ITSE 1345, Intro to Oracle/SQL; COSC 1437, Programming Fundamentals II; ARTC 1305, BASIC Graphic Design

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

HOUSTON COMMUNITY COLLEGE SYSTEM — FAVA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION							Page 1 of 1
NAME: SS#: DATE:						DATE:	
COLLEGE:						CATALOG YEAR:	11-12
GEOGRAPHIC INFORMATION SCIENCE - CERTIFICATE - ANALYST							
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)	Comment/Disappro		Approval Signature	Date
TSI testing is required prior to first enrollment.							
FIRST SEMESTER							
LEAD 1200 Workforce Development with Critical Thinking GISC 1411 Introduction to GIS							
MATH 1314 College Algebra BCIS 1405 Business Computer Applications SECOND SEMESTER							
GISC 2250 Scripting for Geographic Information Systems (GIS)							
COSC 1436 Programming Fundamentals I GISC 1401 Cartography and Geography in GIS/GPS							
GISC 1421 Introduction to Raster-Based GIS ITSE 1345 Introduction to Oracle SQL							
THIRD SEMESTER							
GISC 2411 Geographic Info. Systems (GIS) Applications							
GISC 1491 Special Topics in Cartography							
GISC 2364 Practicum (or Field Experience) Cartography OR							
GISC 2380 Cooperative Education- Cartography							
GISC 2401 Data Acquisition and Analysis in GIS							
GISC 2359 Web-Served Geographic Information							
Systems (GIS)							
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HOUSTON COMMUNITY COLLEGE SYSTEM FAVA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION							
NAME: SS#: DATE:							
COLLEGE: COUNSELOR/ADVISOR:					CATALOG YEAR	: 11-12	
GEOGRAPHIC INFORMATION SCIENCE - CERTIFICATE - GIS TECHNICIAN							
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)		Approval Signature	Date	
TSI testing is required prior to first enrollment.							
FIRST SEMESTER							
LEAD 1200 Workforce Development with Critical Thinking							
GISC 1411 Introduction to GIS							
MATH 1314 College Algebra							
BCIS 1405 Business Computer Applications							
Second Semester							
COSC 1436 Programming Fundamentals I							
GISC 1401 Cartography and Geography in GIS/GPS							
GISC 1421 Introduction to Raster-Based GIS							
ITSE 1345 Introduction to Oracle SQL							
THIRD SEMESTER						<u> </u>	
GISC 2364 Practicum (or Field Experience) Cartography OR							
GISC 2380 Cooperative Education- Cartography							
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NAME:			SS#:		DATE:	
COLLEGE:	COUNSELOR/ADVISOR:			CATALOG YEAR	:11-12	
GEOGRAPHIC INFO	RMATION	SCIENC	E - MARKETA	ABLE SKILLS ACHIEVEMENT AW	ARD	
HCCS Course Requirement	Transfer/St Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
First Semester						
GISC 1411 Introduction to GIS						
GISC 1401 Cartography and Geography in Geographical						
Information Systems (GIS) and						
Global Positioning Systems						
Second Semester						
GISC 2411 Geographic Information Systems (GIS)						
Applications, OR						
GISC 2401 Data Acquisition and Anaylsis in						<u> </u>
Geographic Information Systems (GIS)						<u> </u>
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A student can only earn one MSA per academic year.			_			
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