## Information Technology Programs Offered for Year 2012 - 2013



Computer Programming	DIGITAL GAMING AND SIMULATION
Applications Development - Visual Basic.NET Specialization - AAS	Digital Gaming and Simulation for Artists - AAS
Database Administration - Marketable Skills Achievement Award	GEOGRAPHIC INFORMATION SCIENCE
COMPUTER SYSTEMS, NETWORKING AND TELECOMMUNICATIONSNetwork & Computer Systems Admin. (MCITPS) Specialization - AAS.12Network & Computer Systems Admin. (MCITPS) Specialization- Certificate.14Network & Computer Systems AdminMarketable Skills Achievement Award.15Network Systems & Computer Security Specialization - AAS.16Network Systems & Computer Security-Marketable Skills Achievement Award.19Network Systems & Unified Communication Specialization - AAS.20Network Systems & Unified Communication Specialization - Certificate.22Network Systems & Unified Communication MSA Award.23PC Support Specialization - AAS.24PC Support- Certificate.25UNIX Specialization - AAS.26UNIX (LINUX) - Marketable Skills Achievement Award.27IBM Enterprise Server - Certificate.28	Geographic Information Science - AAS (Deactivated as of September 1, 2011)  Geographic Information Science Analyst - Certificate

HOUSTON COMMUNITY COLLEGE SYSTEM FA_VA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION Page 1										
NAME:			SS#:			DATE:				
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR: 12-13				
COMPUTER PROGRAMMIN	IG - AAS -A	PPLICA	TIONS DEVEL	OPMENT-VISUAL	BASIC.NET SPECIA	LIZATION				
HCCS Course Requirement	Transfer/Si Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/l	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										
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										

HOUSTON COMMUNITY COLLEGE SYSTEM  FA_VA  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION										
NAME:			SS#:			DATE:				
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR:	12-13			
COMPUTER PROGRAMMING -	MARKET	ABLE SK	ILLS ACHIEV	EMENT AWARD	- MICROSOFT VISUA	L BASIC .NET				
HCCS Course Requirement	Transfer/S Institution		Substitute (SU) Transfer (TR)		ent/Disapproval	Approval Signature	Date			
First Semester										
<ul><li>ITSE 1432 Introduction to Visual Basic.NET Programming</li><li>ITSE 1447 Programming with Visual Basic.NET</li></ul>										
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	laa aatalaa fa									
Students must have significant recent work experience.	see catalog lo	details.								
Department Approval Signature:			<b></b>							
Print Name: Date:			<b> </b>							

FAVA EDUC				LEGE SYSTEM BSTITUTION PETITION			Page 1 of 1
NAME:			SS#:		DATE:		
COLLEGE:			COUNSELOR/A	DVISOR:	(	CATALOG YEAR:	12-13
COMPUTER PROGRAMMIN	G - AAS - A	PPLICA	TIONS DEVEL	OPMENT - MICROSOFT C	# SPECIALIZA	ATION	
HCCS Course Requirement	Transfer/Si Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapprov	al	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 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## Approved Humanities/Fine Arts General							
Education Elective							
SPCH 1311 Fundamentals of Speech							
SECOND YEAR							
First Semester							
XXXX #3## Department Approved Business Elective							
XXXX #3## Department Approved Computer Science Elective							
ITSE 1430 Introduction to C# Programming							
ITSE 1456 Extensible Markup Language (XML)							
SECOND SEMESTER							
XXXX #3## Social/Behavioral Science							
General Education Elective							
XXXX #3## Department Approved Business Elective							
ITSE 2453 Advanced C# Programming							
INEW 1340 ASP.NET Programming							
ITSE 1380 Cooperative Education - Computer Programming/							
Programmer, General							
ITSE 2357 <b>OR</b> Advanced Object Oriented Programming							

HOUSTON COMMUNITY COLLEGE SYSTEM  FA_VA  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION									
NAME:			SS#:			DATE:			
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR	: 12-13		
COMPUTER PROGRAMMING - APPLI	CATIONS	DEVELO			ECIALIZATION - CERT	<u> </u>			
HCCS Course Requirement	Transfer/Substitution Institution Course		on Substitute (SU) Comment/Disapproval			Approval Signature	Date		
TSI testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER									
LEAD 1200 Workforce Development with Critical Thinking									
COSC 1436 Programming Fundamentals I (with C#)									
BCIS 1405 Business Computer Applications									
SECOND SEMESTER									
COSC 1437 Programming Fundamentals II (with C#)			_			<u> </u>	<del> </del>		
ITSE 1456 Extensible Markup Language (XML)	<u> </u>						<u> </u>		
ITSE 1430 Introduction to C# Programming									
113L 1430 introduction to C# Hogramming			_				<u> </u>		
THIRD SEMESTER									
INEW 1340 ASP.NET Programming	<b>-</b>					<del> </del>	<del> </del>		
ITSE 2453 Advanced C# Programming									
11SE 2433 Advanced C# Flogramming							<del> </del>		
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HOUSTON COMMUNITY COLLEGE SYSTEM  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION									
NAME:			DATE:						
COLLEGE:		COUNSELOR/A	DVISOR:	CATALOG YEAR	: 12-13				
COMPUTER PROGRAM	MING - MARKET	ABLE SKILLS A	ACHIEVEMENT AWARD - MICR	ROSOFT C#					
HCCS Course Requirement	Transfer/Substitution Institution Course		Comment/Disapproval	Approval Signature	Date				
FIRST SEMESTER  ITSE 1430 Introduction to C# Programming  ITSE 1356 Extensible Markup Language (XML)  SECOND SEMESTER  ITSE 2453 Advanced C# Programming  INEW 1340 ASP.NET Programming  A student can earn only one MSA per academic year.									
Students must have significant recent work experience. S  Department Approval Signature:  Print Name: Date:									

FAVA EDUC				LEGE SYSTEM BSTITUTION PETITI	ON		Page 1 of 1	
NAME:			SS#:			DATE:		
COLLEGE:			COUNSELOR/A	OVISOR:		CATALOG YEAR: 12-13		
COMPUTER PROGRA	MMING - A	AS - APP	LICATIONS I	DEVELOPMENT - JAV	VA SPECIALIZATION	ON		
HCCS Course Requirement	Transfer/St Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Di	sapproval	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## Approved Humanities/Fine Arts								
General Education Elective								
SPCH 1311 Fundamentals of Speech								
SECOND YEAR								
First Semester								
XXXX #3## Department Approved Business Elective								
XXXX #3## Department Approved Computer Science Elective								
ITSE 1345 Introduction to Oracle SQL								
ITSE 1456 Extensible Markup Language (XML)								
SECOND SEMESTER								
XXXX #3## Social/Behavioral Science								
General Education Elective								
XXXX #3## Department Approved Business Elective								
INEW 2418 Web Programming Using Java Server Pages			<b>†</b>					
and Servlets								
INEW 2438 Advanced Java Programming			1					
ITSE 1380 Cooperative Education - Computer			1					
Programming/Programmer, General			1					
ITSE 2357 <u>OR</u> Advanced Object - Oriented Programming								

HOUSTON COMMUNITY COLLEGE SYSTEM  FAVA  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION										
NAME:			SS#:			DATE:				
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR:	12-13			
COMPUTER PROGRAMMING -	APPLICAT	TONS DE	VELOPMENT	- JAVA SPECIALIZATION	N CERTIFICATE	E-LEVEL I				
HCCS Course Requirement	Transfer/Substitution Institution Course				val	Approval Signature	Date			
TSI testing is required prior to first enrollment.										
FIRST YEAR							<u> </u>			
FIRST SEMESTER										
LEAD 1200 Workforce Development with Critical Thinking										
BCIS 1405 Business Computer Applications										
COSC 1436 Programming Fundamentals I (with Java)										
SECOND SEMESTER	-		-				<u> </u>			
COSC 1437 Programming Fundamentals II (with Java)	<b> </b>						<u> </u>			
ITSE 1456 Extensible Markup Language (XML)	<b> </b>						<b></b>			
INEW 2418 Web Programming Using Java Server Pages	<b> </b>						<u> </u>			
and Servlets	ļ									
INEW 2438 Advanced Java Programming										
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HOUSTON COMMUNITY COLLEGE SYSTEM  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION									
NAME:				DATE:					
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR:	12-13		
COMPUTER PROC	GRAMMING	G - MARK	ETABLE SKII	LLS ACHIEVEMENT AW	ARD - JAVA				
HCCS Course Requirement	Transfer/S Institution		Substitute (SU) Transfer (TR)			Approval Signature	Date		
First Semester									
ITSE 2417 Java Programming ITSE 2418 Web Programming Using JavaServer Pages and Servlets									
Second Semester									
INEW 2438 Advanced Java Programming									
ITSE 1345 Introduction to Oracle- SQL									
A student can earn only one MSA per academic year.	<u> </u>		_						
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Students must have significant recent work experience.	See catalog for	details.							
Department Approval Signature:									
Print Name: Date:	-								

FAVA EDUC		Page 1 of 1				
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/A	DVISOR:	CATALOG YEAR:	12-13
COMPUTER SCIEN	NCE TECH	NOLOGY	- AAS - DATA	ABASE ADMINISTRATION SPECIALIZ	ATION	
HCCS Course Requirement	Transfer/S		Substitute (SU)	Comment/Disapproval	Approval	Date
TSI testing is required prior to first enrollment.	Institution	Course	Transfer (TR)		Signature	
FIRST YEAR				This AAS degree has been deactivated as of		
FIRST SEMESTER				August 15, 2010. New students will not be		
LEAD 1200 Workforce Development with Critical Thinking				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						

HOUSTON COMMUNITY COLLEGE SYSTEM  FAVA  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION										
NAME:			SS#:		DAT	E:				
COLLEGE:			COUNSELOR/A	DVISOR:	CAT	ALOG YEAR:	12-13			
COMPUTER SCIENCE TECHNOLO	OGY- MAR	KETABL	E SKILLS ACI	HIEVEMENT AWARD - DAT	ABASE ADMINIS	TRATION				
HCCS Course Requirement	Transfer/Solution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapprov		pproval gnature	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)										
A student can earn only one MSA per academic year.										
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Students must have significant recent work experience. S	See catalog for	details								
Students must have significant recent work experience.	see catalog for	uctans.								
Department Approval Signature:										
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Print Name: Date:			<b>_</b>							

HOUSTON COMMUNITY COLLEGE SYSTEM  FAVA  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION										
NAME:			SS#:		DATE:					
COLLEGE:			COUNSELOR/AI	OVISOR:	CATALOG	YEAR: 12-13				
COMPUTER SYS., NETWORKING AND TEL	E AAS - N	ETWOR	K AND COMP	UTER SYSTEMS ADMINISTRA	ATION (MCITP) SPE	CIALIZATION				
HCCS Course Requirement	Transfer/Su Institution	ibstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approva Signatur	Bate				
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										
MATH 1324 Finite Mathematics with Applications										
ITSC 1425 Personal Computer Hardware										
ITNW 1425 Fundamentals of Networking Technologies										
SPCH 1311 Fundamentals of Speech										
THIRD SEMESTER										
COSC 1436 Programming Fundamentals I										
ITMT 2302 Windows Server 2008: Active Directory										
Configuration										
SECOND YEAR										
First Semester										
XXXX #3## Social/Behavioral Science/General										
Education Elective										
XXXX #3## Humanities/Fine Arts/ General										
Education Elective										
ITSC 1319 Internet/Web Page Development										
ITMT 2301 Windows Server 2008: Network Infrastructure										
Configuration										
ITSY 1342 Information Technology Security										
(Cont'd on Page 2)										

HOUSTON COMMUNITY COLLEGE SYSTEM  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION											
NAME:			SS#:			DATE:					
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR: 12-13					
COMPUTER SYS., NETWORKING AND TEL	E AAS - N	ETWOR			NISTRATION (M						
HCCS Course Requirement	ICCS Course Requirement Transfer/Substituti Institution Cour		Substitute (SU) Transfer (TR)	Comment/Disapp	Approval Signature	Date					
Second Semester											
XXXX #3## Approved Business Elective											
ITMT 2351 Windows Server 2008: Server Administrator											
ITNW 2335 Network Troubleshooting and Support											
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FAVA EDUC				LEGE SYSTEM BSTITUTION PE	TITION		Page 1 of 1	
NAME:			SS#:			DATE:		
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR: 12-13		
COMPUTER SYS., NETWORK. TELE CERTI	FICATE-N	ETWORI			ADMINISTRATION (M	<u> </u>		
HCCS Course Requirement	Transfer/Si Institution		Substitute (SU) Transfer (TR)		ent/Disapproval	Approval Signature	Date	
TSI testing is required prior to first enrollment.								
First Semester								
LEAD 1200 Workforce Development with Critical Thinking								
BCIS 1405 Business Computer Applications								
ITMT 1371 Windows 7 Configuration								
ITNW 1425 Fundamentals of Networking Technologies								
Second Semester								
ITSC 1425 Personal Computer Hardware								
ITMT 2302 Windows Server 2008:Active Directory								
Configuration**								
** Capstone								

FAVA EDUC	HOUSTON ( CATIONAL PLA		IMUNITY COL RANSFER SU					Page 1 of 1
NAME:			SS#:			D	ATE:	
COLLEGE:			COUNSELOR/A	DVISOR:	С	CATALOG YEAR: 12-13		
NETWORK AND COMPUTER	R SYSTEMS AD	MIN	ISTRATION-N	IARKETABLI	E SKILLS ACHIEV	VEMENT AV	WARD	
HCCS Course Requirement	Transfer/Substitu		Substitute (SU) Transfer (TR)		nment/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.								

FAVA EDUC				LEGE SYSTEM BSTITUTION PETITION		Page 1 of 2
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/AI	OVISOR:	CATALO	G YEAR: 12-13
COMPUTER SYS., NETWORKING AN	D TELECO	MMAA	S-NETWORK	SYSTEMS AND COMPUTER	SECURITY SPECIA	LIZATION
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Appro Signate	val 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)						

FA	HOUSTON COMMUNITY COLLEGE SYSTEM  FAVA  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION											
NAME:				SS#:			DATE:	PATE:				
COLLEGE:				COUNSELOR/A	CATALOG YEAR	:12-13						
CO	MPUTER SYS., NETWORKING AN	D TELECO	MAAS-	NETWORK SY	NETWORK SYSTEMS AND COMPUTER SECURITY SPECIAL							
	HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)		ment/Disapproval	Approval Signature	Date				
SECOND SEMEST	TER											
ENGL 2311	Technical and Industrial Correspondence and Report Writing											
ITSY 2330	Intrusion Detection											
	Approved Business Elective											
	Computer System Forensics							<u> </u>				
ITNW 1380	Cooperative Education-Computer Systems							<del> </del>				
	Networking and Telecommunications							<del> </del>				
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NAME:			SS#:			DATE:		
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR: 12-13		
COMPUTER SYS., NETWORKING AND	TELECER	TIFICAT			COMPUTER SECURIT			
HCCS Course Requirement	Transfer/St		Substitute (SU)	1	nt/Disapproval	Approval	Date	
1	Institution	Course	Transfer (TR)		11	Signature		
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								

FAVA EDU			LLEGE SYSTEM BSTITUTION PETITION			Page 1 of 1	
NAME:		SS#:			DATE:		
COLLEGE:		COUNSELOR/A	DVISOR:		CATALOG YEAR: 12-13		
	ND COMPI		KETABLE SKILLS ACHIE	EVEMENT AW			
HCCS Course Requirement	Transfer/Si Institution	Substitute (SU) Transfer (TR)			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							
A student can only earn one MSA per academic year.							

FAVA EDUC				LEGE SYSTEM BSTITUTION PE			Page 1 of 2
NAME:			SS#:			DATE:	
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR: 12-13	
COMPUTER SYS., NETWORKING AN	D TELEA	AS-NET	WORK SYSTE	MS AND UNIFIE	ED COMMUNICATION	SPECIALIZATION	ON
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)		ent/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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FA	HOUSTON COMMUNITY COLLEGE SYSTEM											
NAME:				SS#:		DATE:						
COLLEGE:				COUNSELOR/A	DVISOR:	CATALOG YEA	CATALOG YEAR: 12-13					
	TER SYS., NETWORKING AND TEL	EAAS-NE	ГWORK									
	HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)		Approval Signature	Date					
SECOND SEMES	STER											
ENGL 2311	Technical and Industrial Correspondence and											
	Report Writing											
ITCC 2359	Advanced Voice Over Internet Protocol (VoIP)											
	Cisco Exploration 4-Accessing the WAN											
ITNW 1380	Cooperative Education-Computer Systems											
	Networking and Telecommunications											
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NAME:			SS#:				DATE:		
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR: 12-13			
COMPUTER SYS., NETWORKING AND TEL	LECERTI	FICATE-			UNIFIED COMN	//UNICATI			
HCCS Course Requirement	Transfer/Substitution Institution Course		Substitute (SU) Transfer (TR)		nment/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									
TCC 1401 Cisco Exploration 1-Network Fundamentals									
TSC 1307 UNIX Operating System I OR									
TMT 1371 Windows 7 Configuration									
Second Semester									
TSC 1319 Internet/Web Page Development									
XXXX #3## Humanities/Fine Arts General Ed. Elective									
TCC 1404 Cisco Exploration 2-Routing									
Protocols and Concepts									
TCC 1408 Introduction to Voice over Internet									
Protocol (VoIP)									

FAVA EDU			MUNITY COI RANSFER SU				Page 1 of 1	1	
NAME:			SS#:		DATE:				
COLLEGE:			COUNSELOR/A	DVISOR:	CATALOG YEAR: 12-13				
NETWORK SYSTEMS AND UNIFIED	COMMUNIC	CATION			ETABLE SKILLS AG				
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)		Appro Signat	oval 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.									

FAVA EDUC				LEGE SYSTEM BSTITUTION PETI	ITION		Page 1 of 1
NAME:			SS#:			DATE:	
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR:	12-13
COMPUTER SYS., NETW	ORKING A	ND TELI	ECOMMUNIC	ATIONS- AAS- PC	SUPPORT SPECIALIZ	ZATION	
HCCS Course Requirement	Transfer/Solution		Substitute (SU) Transfer (TR)		/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							
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 Tech. & Ind. Correspondence & Report Writing							
XXXX #3## Approved Business Elective							
ITSW 2337 Advanced Database							
ITSC 1380 Cooperative Education- Computer & Infor. Sci.							

FAVA EDUC				LEGE SYSTEM BSTITUTION PETIT	TION		Page 1 of 1
NAME:			SS#:			DATE:	
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR: 12-13	
	NETWORK	ING AN			RTIFICATE - PC SU		
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							
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							

FAVA EDU				LEGE SYSTEM BSTITUTION PETITION			Page 1 of 1
NAME:			SS#:			DATE:	
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR:	12-13
COMPUTER SYS., NET	WORKING	AND TE	LECOMMUNI	CATIONS - AAS - UNIX S	PECIALIZATI	ON	
HCCS Course Requirement	Transfer/Si 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							
MATH 1314 College Algebra							<u> </u>
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 Programming Fundamentals I							
ITSC 1307 Unix Operating System I							
ITSC 1425 Personal Computer Hardware OR							
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 Ed. Elective							
SECOND YEAR							
First Semester							
ITSC 1342 Shell Programming							
ENGL 2311 Technical and Industrial Correspondence							
and Report Writing							
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							

HOUSTON COMMUNITY COLLEGE SYSTEM FA_VA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION Page 1 of 1											
NAME:			SS#:			DATE:					
COLLEGE:			COUNSELOR/A	DVISOR:		CATALOG YEAR: 12-13					
COMPUTER SYS., NETWORKING AND TI	ELECOMM	UNICAT	IONS- MARKE	ETABLE SKILLS ACHIEV	EMENT AWAR	RD - UNIX (LINUX)					
HCCS Course Requirement	Transfer/S Institution		Substitute (SU) Transfer (TR)			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.											
	7 . 1 . 6	1 / 1									
Students must have significant recent work experience.	see catalog for	details.									
Department Approval Signature:											
Department ripprovidi dignature.											
Print Name: Date:											

FAVA EDUC			MUNITY COI RANSFER SU					Page 1 of 1	
NAME:			SS#:				DATE:		
COLLEGE:			COUNSELOR/ADVISOR:				CATALOG YEAR:	12-13	
COMPUTER SYS., NETWORK	ING AND	TELECO:	MMUNICATIO	ONS- CERTIF	FICATE- IBM ENT	ERPRISE			
HCCS Course Requirement	Transfer/St Institution		Substitute (SU) Transfer (TR)		mment/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									
ITSC 1316 Linux Installation and Configuration									
Second Semester									
ITSC 1302 Computer Control Language									
ITSE 1402 Computer Programming (CICS)									
THIRD SEMESTER								<u> </u>	
ITSE 2337 Assembly Language Programming									
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FAVA EDUC				LEGE SYSTEM BSTITUTION PETITIO	ON		Page 1 of 1
NAME:			SS#:			DATE:	
COLLEGE:			COUNSELOR/A		CATALOG YEAR: 12-13		
	AND SIM	ULATIO		S-ASSOCIATE IN API	PLIED SCIENCE		
HCCS Course Requirement	Transfer/St		Substitute (SU)			Approval	Date
TSI testing is required prior to first enrollment.	Institution	Course	Transfer (TR)		11	Signature	
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							
GAME 1302 Interactive Storyboarding							
GAME 1375 Principles of Game Concept Art							
GAME 2312 Interactive Audio							
GAME 2336 Lighting, Shading, and Texture							
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							
ARTS 2323 Life Drawing I							
XXXX #3## Social/Behavioral Science General Ed. Elective							
Second Semester							
GAME 2334 Project Development II							
ARTS 2324 Life Drawing II							
GAME 2308 Portfolio Game Development							
XXXX #3## Math/Natural Science General Ed. Elective							
GAME 2372 Emerging Game Technology							
Third Semester							
GAME 2386 Internship- Animation, Interactive Technology,							
Video Graphics and Special Effects							

HOUSTON COMMUNITY COLLEGE SYSTEM FA_VA  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION  NAME:  DATE:												
NAME:			SS#:		DATE:							
COLLEGE:			COUNSELOR/A	DVISOR:	CATALOG YEAF	 ₹: 12-13						
	MING AND	SIMUL		RTISTS-CERTIFICATE (LEV								
HCCS Course Requirement	Transfer/Su 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												
GAME 1374 Introduction to 3D Game Animation												
GAME 2332 Project Development I												

FA	VA <b>EDU</b> O				LEGE SYSTEM BSTITUTION PETITION		Page 1 of 1
NAME:				SS#:		DATE:	
COLLEGE:				COUNSELOR/A	DVISOR:	CATALOG YE	AR: 12-13
	DIGITAL GA	MING AND	SIMULA	ATION FOR A	RTISTS-CERTIFICATE (LEV	VEL II)	
	HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)			Date
TSI testing is requir	ed 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						
	3D Game Modeling						
SECOND SEMES							
	Game Theory						
	Interactive Storyboarding						
	Principles of Game Concept Art						
	Interactive Audio						
GAME 2378	Techniques of Game Art						
THIRD SEMESTE	R						
GAME 1304	Level Design						
GAME 1374	Introduction to 3D Game Animation						
SECOND YEAR							
FIRST SEMESTER	3						
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						
SECOND SEMES	TER						
GAME 2308	Portfolio for Game Development						
GAME 2334	Project Development II						

FAV	'A EDUC				LEGE SYSTEM BSTITUTION PETITION		Page 1 of 2
NAME:				SS#:		DATE:	
COLLEGE:				COUNSELOR/AI	OVISOR:	CATALOG YE	AR: 12-13
	DIGITAL GAMING AN	D SIMULA	TION FO	OR PROGRAM	MERS-ASSOCIATE IN APPL	IED SCIENCE	
	HCCS Course Requirement	Transfer/Su Institution	bstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is require	ed 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 SEMEST	ER						
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 SEMEST	ER						
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 o	n page 2)						

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NAME:				SS#:			DATE:						
COLLEGE:				COUNSELOR/A	DVISOR:		CATALOG YEAR:	12-13					
	DIGITAL GAMING AN	D SIMULA	TION FO	OR PROGRAM	MERS-ASSOCIA	TE IN APPLIED SCIEN	NCE						
HCCS Course Requirement		Transfer/Substitution Institution Course		Substitute (SU) Transfer (TR)	Comme	nt/Disapproval	Approval Signature	Date					
THIRD SEMESTE	R												
GAME 2386	Internship- Animation, Interactive Technology, Video Graphics and Special Effects												
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NAME:				SS#:		DATE:							
COLLEGE:				COUNSELOR/A	DVISOR:	CATALOG	YEAR: 12-13						
	DIGITAL GAMIN	IG AND SIN	MULATIO	ON FOR PROC	GRAMMERS-CERTIFICATE	(LEVEL I)							
	HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)									
TSI testing is rec	quired prior to first enrollment.												
FIRST YEAR													
FIRST SEMESTI	ER												
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 SEME	STER												
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												
GAME 1304	4 Level Design												
THIRD SEMEST	ER												
GAME 2342	Game Development Using C++												
GAME 2332	Project Development I												

HOUSTON COMMUNITY COLLEGE SYSTEM  FAVA  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION												
NAME:			SS#:		DATE:							
COLLEGE:			COUNSELOR/A	DVISOR:	CATALOG YEAR	: 12-13						
DIGITAL GAMIN	G AND SIN			RAMMERS-CERTIFICATE (I								
HCCS Course Requirement	Transfer/Su 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												
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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FAVA EDUC				LEGE SYSTEM STITUTION PETIT	ΓΙΟΝ		Page 1 of 1
NAME:			SS#:			DATE:	
COLLEGE:			COUNSELOR/AI	OVISOR:		CATALOG YEAR:	12-13
DIGITAL GAMING AND	SIMULAT	ION FOR			E IN APPLIED SCIEN		
HCCS Course Requirement		ubstitution Course			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							
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  CAME 2322 Project Development I							
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		<u> </u>					
THIRD SEMESTER		<u> </u>					
GAME 2386 Internship- Animation, Interactive Technology,							
Video Graphics and Special Effects							

HOUSTON COMMUNITY COLLEGE SYSTEM  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION								
NAME:		SS#:	DATE:	DATE:				
COLLEGE:			COUNSELOR/A	DVISOR:	CATALOG YEA	CATALOG YEAR: 12-13		
	NG AND SIMU			SKILLS CERTIFICATE-LEVI				
HCCS Course Requirement	Transfer/S Institution	ubstitution Course	Substitute (SU) Comment/Disapproval Transfer (TR)		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  FA_VA  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION								
	CATIONAL	PLAN/I		SITUTION PETITION	DATE			
NAME:			SS#:		DATE:			
COLLEGE:			COUNSELOR/AD	VISOR:	CATALOG YEAR	1: 12-13		
GEOGRAPH	IC INFORM	MATION	SCIENCE - ASS	SOCIATE IN APPLIED SCIENCE				
HCCS Course Requirement	Transfer/Substitution				Approval	Date		
TSI testing is required prior to first enrollment.	Institution Course		Transfer (TR)	11	Signature			
FIRST YEAR						1		
First Semester								
LEAD 1200 Workforce Development with Critical Thinking								
ENGL 1301 Composition I								
MATH 1314 College Algebra								
DFTG 1305 Technical Drafting								
ITSC 1301 Introduction to Computers								
GISC 1411 Introduction to GIS								
Second Semester								
MATH 1316 Plane Trigonometry								
COSC 1436 Programming Fundamentals I								
DFTG 1309 BASIC Computer-Aided Drafting								
GISC 1401 Cartography and Geography in GIS/GPS								
GISC 1421 Introduction to Raster-Based GIS								
SECOND YEAR								
First Semester								
TSE 1346 Database Theory and Design OR						ļ		
ITSE 1345 Introduction to Oracle SQL				This AAS degree will be deactivated as of		ļ		
GEOL 1403 Physical Geology				September 1, 2011. New students will not be				
GISC 1491 Special Topics in Cartography				admitted into the program.		ļ		
GISC 2401 Data Acquisition and Analysis in GIS						ļ		
ETWR 2301 Technical Writing OR						ļ		
ENGL 2311 Tech. & Ind. Correspondence & Report Writing						ļ		
Second Semester						<u> </u>		
GISC 2411 Geographic Info. Systems (GIS) Applications						<b>_</b>		
XXXX #3## Department Appr. Computer Science*OR						<u> </u>		
XXXX #3## Graphic Design Elective*						<u> </u>		
XXXX #3## Humanities/Fine Arts Elective						<u> </u>		
XXXX #3## Social/Behavioral Science Elective**						<u> </u>		
GISC 2380 Cooperative Education- Cartography OR						<del> </del>		
GISC 2364 Practicum (or Field Experience) Cartography						1		
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<sup>\*</sup>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

<sup>\*\*</sup>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  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION								
NAME:		SS#: DATE:						
COLLEGE:			COUNSELOR/A	DVISOR:	CAT	CATALOG YEAR: 12-13		
	APHIC IN			- CERTIFICATE - ANALY				
HCCS Course Requirement	Transfer/St Institution		Substitute (SU) Transfer (TR)		oval A	pproval ignature	Date	
TSI testing is required prior to first enrollment.							i	
First Semester							1	
LEAD 1200 Workforce Development with Critical Thinking GISC 1411 Introduction to GIS								
MATH 1314 College Algebra	<del> </del>	<u> </u>	1					
BCIS 1405 Business Computer Applications		<u> </u>						
Second Semester								
GISC 2250 Scripting for Geographic Information								
Systems (GIS)	<del> </del>		+					
COSC 1436 Programming Fundamentals I	<u> </u>		+					
GISC 1401 Cartography and Geography in GIS/GPS		<del> </del>	+					
GISC 1421 Introduction to Raster-Based GIS	<del> </del>		+					
ITSE 1345 Introduction to Oracle SQL	<del> </del>		+					
THIRD SEMESTER	<del> </del>		+					
GISC 2411 Geographic Info. Systems (GIS) Applications			+				<u> </u>	
GISC 1491 Special Topics in Cartography			+					
GISC 2364 Practicum (or Field Experience) Cartography OR	<del> </del>		+					
GISC 2380 Cooperative Education- Cartography		<u> </u>	1					
GISC 2401 Data Acquisition and Analysis in GIS	<u> </u>							
GISC 2359 Web-Served Geographic Information		<u> </u>	1					
Systems (GIS)							<del></del>	
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HOUSTON COMMUNITY COLLEGE SYSTEM  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION								
NAME:		SS#:		DATE:	DATE:			
COLLEGE:			COUNSELOR/A	DVISOR:	CATALOG YEAR	: 12-13		
GEOGRAPI	HC INFOR	MATION	SCIENCE - C	ERTIFICATE - GIS TECHNIC	CIAN			
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)		1	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								
GISC 2364 Practicum (or Field Experience) Cartography OR								
GISC 2380 Cooperative Education- Cartography								

HOUSTON COMMUNITY COLLEGE SYSTEM  EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION								
NAME:				SS#:	DATE:			
COLLEGE:				COUNSELOR/A	DVISOR:		CATALOG YEAR: 12-13	
	GEOGRAPHIC INFO	RMATION	SCIENC	E - MARKETA	BLE SKILLS ACHIEVE	MENT AWARD		
HCCS Co	ourse Requirement	Transfer/Substitution Institution Course		Substitute (SU) Transfer (TR)	Comment/Disapp	proval	Approval Signature	Date
FIRST SEMESTER								
GISC 1411 Introductio								
	hy and Geography in Geographical							
	on Systems (GIS) and							
	sitioning Systems							
SECOND SEMESTER								ļ
	ic Information Systems (GIS)							
Application				_				<u> </u>
GISC 2401 Data Acqu								
Geographi	ic Information Systems (GIS)							<b></b>
				_				
A student can only carn or	ne MSA per academic year.							
A student can only earn of	ie MSA per academic year.							
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