DIGITAL & INFORMATION TECHNOLOGY - COE 2020 - 2021 V.3

Associate of Arts in Computer Information Systems	Artificial Intelligence - AAS
Associate of Science in Computer Science - Field of Study Curriculum	COMPUTER SCIENCE
Applications Development - Cloud Computing and Application Development Specialization - AAS	·
Applications Development - Microsoft C# Specialization - AAS	COMPUTER PROGRAMMING
Digital Communication - General - Certificate Level 2	Applications Development - Cloud Computing and Application Development Specialization - AAS
	Digital Communication - General - Certificate Level 2

DIGITAL & INFORMATION TECHNOLOGY - COE 2020 - 2021 V.3

Digital Communication - XR Design & Development Specialization - AAS
Digital Communication - XR Design & Development Specialization - Certificate Level 1
Digital Communication - XR Design & Development Specialization - Certificate Level 2
Digital Communication - Digital Photography Specialization - AAS
Digital Communication - Digital Photography Specialization - Certificate Level 1
Digital Communication - Digital Photography Specialization - Certificate Level 2
Digital Communication - Graphic Design Specialization - AAS
Digital Communication - Graphic Design Specialization - Certificate Level 1
Digital Communication - Graphic Design Specialization - Certificate Level 2
Digital Communication - Mobile Application - Certificate Level 1
Digital Communication - Visual Effects & Motion Graphics Specialization - AAS
Digital Communication - Visual Effects & Motion Graphics Specialization - Certificate Level 1 42
Digital Communication - Visual Effects & Motion Graphics Specialization - Certificate Level 2 43
Digital Communication - Web Publishing Specialization - AAS
Digital Communication - Web Publishing Specialization - Certificate Level 1
Digital Communication - Web Publishing Specialization - Certificate Level 2
DIGITAL GAMING AND SIMULATION
Digital Gaming & Simulation for Artists - AAS
Digital Gaming & Simulation for Artists - Certificate Level 2
Digital Gaming & Simulation for Programmers - AAS49
Digital Gaming & Simulation for Programmers - Certificate Level 2 50

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ARTIFICIAL INTELLIGENCE (A.I.)

ARTIFICIAL INTELLIGENCE

Associate of Applied Science		SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
MATH1314	College Algebra	3
ENGL 1301	English Compositionv	3
XXXX #3## ¹	General Education Elective	3
ITAI 1370	Artificial Intelligence (A.I.) History, Theory & Platforms	3
	Semester Total	15
Second Semest	ter - Spring	
COSC 1436	Programming Fundamentals I (Python)	4
ITAI 1371	Introduction to Machine Learning	3
ITAI 1372	Artificial Intelligence (A.I.) in Cybersecurity	3
ITAI 1378	Computer Vision for Artificial Intelligence (A.I.)	3
	Semester Total	13
Third Semester	- Summer	
ITSC 1316	LINUX Installation & Configuration	3
ITNW 1313	Computer Virtualization	3
	Semester Total	6
	SECOND YEAR	
First Semester	- Fall	
ITAI 2374	Robot Operating System & Platforms in Artificial Intelligence (A.I.)	3
ITAI 2373	Natural Language Processing	3
ITAI 2372	Artificial Intelligence (A.I.) Applications & Case Histories	3
XXXX #3## ¹	Humanities / Fine Arts Elective	3
ITSE 1346	Database Design and Theory	3
	Semester Total	15
Second Semest	er - Spring	
PHIL 1301	Introduction to Philosophy	3
ITAI 2377	Data Science in Artificial Intelligence (A.I.)	3
ITAI 2376	Deep Learning in Artificial Intelligence (A.I.)	3
ITAI 2275	Cooperative Education - Artificial Intelligence (A.I.) OR	
ITAI 2277	Artificial Intelligence (A.I.) Resources & References (Capstone)	2
	Semester Total	11
Total Minimum Credits for the AAS Degree 60		
	¹ A list of electives appears in the Core Curriculum section of this catalog.	

Academic Degrees and Certificates 2020-2021

Associate of Arts in

COMPUTER INFORMATION SYSTEMS

	FIRST YEAR	SCH
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
MATH 1324	Mathematics for Business & Social Sciences	3
BCIS 1305	Business Computer Applications	3
HIST #3##1	American History Elective	3
	Semester Total	15
Second Semest	er - Spring	
ENGL 1302	Composition II	3
MATH 1325	Calculus for Business & Social Sciences	3
COSC 1436	Programming Fundamentals I	4
XXXX #3##¹	Life & Physical Sciences Elective	3
HIST #3##1	American History Elective	3
	Semester Total	16
	SECOND YEAR	
First Semester	- Fall	
ACCT 2301	Principles of Financial Accounting	3
COSC 1437	Programming Fundamentals II	4
ECON 2301	Principles of Macroeconomics OR	
ECON 2302	Principles of Microeconomics	3
GOVT 2305	Federal Government	3
XXXX #3##1	Creative Arts Elective	3
	Semester Total	16
Second Semest	ter - Spring	
MATH 1342	Elementary Statistical Methods OR	
ACCT 2302	Principles of Managerial Accounting	3
COSC 2425	Computer Organization	4
XXXX #3## ¹	Language, Philosophy, & Culture Elective	3
GOVT 2306	Texas Government	3
	Semester Total	13
Total Minimum	Credits for the AA Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog.	

Academic Degrees and Certificates 2020-2021

Associate of Science in

COMPUTER SCIENCE

Field of Study Curriculum

	FIRST YEAR	SCH
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
MATH 2412	Pre-Calculus Math	4
COSC 1436	Programming Fundamentals I	4
HIST #3##1	American History Elective	3
	Semester Total	17
Second Semes	ter - Spring	
ENGL 1302	Composition II	3
MATH 2413	Calculus I	4
COSC 1437	Programming Fundamentals II	4
HIST #3##1	American History Elective	3
	Semester Total	14
	SECOND YEAR	
First Semester	- Fall	
MATH 2414	Calculus II	4
PHYS 2325	University Physics I (Lecture)	3
PHYS 2125	University Physics I (Lab)	1
COSC 2436	Programming Fundamentals III	4
GOVT 2305	Federal Government	3
	Semester Total	15
Second Semes	ter - Spring	
PHYS 2326	University Physics II (Lecture)	3
PHYS 2126	University Physics II (Lab)	1
COSC 2425	Computer Organization	4
XXXX #3## ¹	Social & Behavioral Sciences Elective	3
GOVT 2306	Texas Government	3
	Semester Total	14
Total Minimum Credits for the AS Degree 60		

¹A list of electives appears in the Core Curriculum section of this catalog. Consult with advisor regarding Core completion

COMPUTER PROGRAMMING

COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - CLOUD COMPUTING AND APPLICATION DEVELOPMENT - SPECIALIZATION

Associate of Applied Science		SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
ITSE 1411	Beginning Web Programming	4
MATH 1314	College Algebra	3
COSC 1436	Programming Fundamentals I	4
	Semester Total	14
Second Seme	ster - Spring	
COSC 1437	Programming Fundamentals II	4
ITSE 2402	Intermediate Web Programming	4
ITCC 1414	CCNA1: Introduction to Computer Networks OR	
ITNW 1425	Fundamentals of Networking Technologies	4
ITSE 1345	Introduction to Oracle SQL OR	
ITSE 1346	Database Theory and Design	3
	Semester Total	15
Third Semest	er - Summer	
ENGL 1301	Composition I	3
ITNW 1313	Computer Virtualization	3
	Semester Total	6
	SECOND YEAR	
First Semeste	er - Fall	
ITSE 2473	Cloud Computing I- Solution Architect	4
INEW 2434	Advanced Web Programming	4
XXXX #3## ¹	Social / Behavioral Sciences Elective	3
	Semester Total	11

Second Semester - Spring

ITSE 2474	Cloud Computing II- Developer	4
XXXX #4##²	Program Approved IT Elective	4
XXXX #3##¹	Humanities/Fine Arts Elective	3
ITSE 1380 ³	Cooperative Education - Computer Programming/Programmer, General (Capstone) OR	
INEW 2332 ³	Comprehensive Software Project	3
	Semester Total	14
Total Minimur	n Credits for the AAS Degree	60

¹A list of electives appears in the Core Curriculum section of this catalog.

²COSC 2436; GISC 1411; INEW 2475; ITNW 1313; ITSE 2333, 2471; ITSY 1342.

³Choose one as the capstone ITSE 1380 or INEW 2332

COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - MICROSOFT C# SPECIALIZATION

Associate of Applied Science		SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
MATH 1314	College Algebra	3
BCIS 1305	Business Computer Applications	3
COSC 1436	Programming Fundamentals I (with C#)	4
	Semester Total	16
Second Semes	ter - Spring	
MATH 1324	Mathematics for Business & Social Sciences	3
COSC 1437	Programming Fundamentals II (with C#)	4
ITSE 1346	Database Theory & Design OR	
ITSE 1345	Introduction to Oracle SQL	3
XXXX #3##¹	Humanities/Fine Arts Elective	3
	Semester Total	13
Third Semeste	r - Summer	
XXXX #3##¹	Social / Behavioral Sciences Elective	3
	Semester Total	3
	SECOND YEAR	
First Semester	- Fall	
ITSE 2402	Intermediate Web Programming	4
ITSE 2471	Mobile Application Programming I	4
XXXX #3##¹	General Education Elective	3
XXXX #3## ²	Program Approved Business Elective	3
	Semester Total	14
Second Semes	ter - Spring	
INEW 2434	Advanced Web Programming	4
ITSE 2453	Advanced C# Programming	4
ITSE 1380	Cooperative Education - Computer Programming/Programmer, General OR	
INEW 2332	Comprehensive Software Project: Coding, Testing, & Implementation (Capstone)	3
XXXX #3## ³	Program Approved IT Elective	3
	Semester Total	14
Total Minimun	n Credits for the AAS Degree	60
¹ A list of electives appears in the Core Curriculum section of this catalog.		
² ACCT 2301, 2302; BMGT 1301, 1325; BUSG 1301, 2305; ECON 1301, 2301, 2302; HRPO 1311, 2307.		

³COSC 2436; GISC 1411; INEW 2475; ITNW 1313; ITSE 2333, 2471; ITSY 1342.

COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - MICROSOFT C++ SPECIALIZATION

Associate of Applied Science		SCH
FIRST YEAR		
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
MATH 1314	College Algebra	3
BCIS 1305	Business Computer Applications	3
COSC 1436	Programming Fundamentals I (with C++)	4
	Semester Total	16
Second Semest	er - Spring	
MATH 1324	Mathematics for Business & Social Sciences	3
COSC 1437	Programming Fundamentals II (with C++)	4
ITSE 1346	Database Theory & Design OR	
ITSE 1345	Introduction to Oracle SQL	3
XXXX #3##¹	Social/Behavioral Sciences Elective	3
	Semester Total	13
Third Semester	- Summer	
XXXX #3##¹	Humanities/Fine Arts Elective	3
	Semester Total	3
	SECOND YEAR	
First Semester	- Fall	
ITSE 2402	Intermediate Web Programming	4
COSC 2425	Computer Organization & Machine Language	4
COSC 2436	Programming Fundamentals III (with C++)	4
XXXX #3## ²	Program Approved Business Elective	3
	Semester Total	15
Second Semest	er - Spring	
INEW 2434	Advanced Web Programming	4
ITSE 1380	Cooperative Education - Computer Programming/Programmer, General OR	
INEW 2332	Comprehensive Software Project: Coding, Testing, & Implementation (Capstone)	3
XXXX #3##¹	General Education Elective	3
XXXX #3## ³	Program Approved IT Elective	3
	Semester Total	13
Total Minimum	Credits for the AAS Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog.	
	² ACCT 2301, 2302; BMGT 1301, 1325; BUSG 1301, 2305; ECON 1301, 2301, 2302; HRPO 1311, 2307.	
	³ COSC 2436; GISC 1411; INEW 2475; ITNW 1313; ITSE 2333, 2471; ITSY 1342.	

COMPUTER PROGRAMMING - APPLICATIONS DEVELOPMENT - JAVA SPECIALIZATION

Associate of Applied Science		SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
MATH 1314	College Algebra	3
BCIS 1305	Business Computer Applications	3
COSC 1436	Programming Fundamentals I (with Java)	4
	Semester Total	16
Second Semest	er - Spring	
MATH 1324	Mathematics for Business & Social Sciences	3
COSC 1437	Programming Fundamentals II (with Java)	4
ITSE 1346	Database Theory & Design OR	
ITSE 1345	Introduction to Oracle SQL	3
XXXX #2##¹	General Education Elective	2
	Semester Total	12
Third Semester	- Summer	
XXXX #3##¹	Humanities/Fine Arts Elective	3
	Semester Total	3
	SECOND YEAR	
First Semester	- Fall	
ITSE 2402	Intermediate Web Programming	4
COSC 2436	Programming Fundamentals III (with Java)	4
INEW 2438	Advanced Java Programming	4
XXXX #3## ²	Program Approved Business Elective	3
	Semester Total	15
Second Semest	er - Spring	
INEW 2434	Advanced Web Programming	4
XXXX #3##¹	Social/Behavioral Sciences Elective	3
ITSE 1380	Cooperative Education - Computer Programming/Programmer, General OR	
INEW 2332	Comprehensive Software Project: Coding, Testing, & Implementation (Capstone)	3
XXXX #4## ³	Program Approved IT Elective	4
	Semester Total	14
Total Minimum	Credits for the AAS Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog.	
	² ACCT 2301, 2302; BMGT 1301, 1325; BUSG 1301, 2305; ECON 1301, 2301, 2302; HRPO 1311, 2307.	

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³COSC 2436; GISC 1411; INEW 2475; ITNW 1313; ITSE 2333, 2471; ITSY 1342.

COMPUTER PROGRAMMING - DATABASE ADMINISTRATOR

Certificate - Level 2		SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
ITSC 1309	Integrated Software Applications I OR	
BCIS 1305	Business Computer Applications	3
COSC 1436	Programming Fundamentals I	4
MATH 1314	College Algebra	3
	Semester Total	13
Second Seme	ester - Spring	
ITSC 1307	UNIX Operating System I OR	
ITMT 1358	Windows Client Operating System	3
ITSE 1345	Introduction to Oracle SQL	3
ITSE 1456	Extensible Markup Language (XML)	4
	Semester Total	10
Third Semest	er - Summer	
ITSE 2456	Oracle Database Administration I OR	
ITMT 2403	Administering a Microsoft SQL Server Database	4
	Semester Total	4
	SECOND YEAR	
First Semeste	er - Fall	
ITSE 2458	Oracle Database Administration II OR	
ITSE 2333	Implementing a Database on Microsoft SQL Server (Capstone)	4
	Semester Total	4
Total Minimu	m Credits for the Level 2 Certificate	31

COMPUTER PROGRAMMING - MOBILE APPLICATION DEVELOPER

Certificate - Level 2		SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
ITSC 1309	Integrated Software Applications I OR	
BCIS 1305	Business Computer Applications	3
COSC 1436	Programming Fundamentals I	4
MATH 1314	College Algebra	3
	Semester Total	13
Second Seme	ester - Spring	
ITSE 1346	Database Theory & Design OR	
ITSE 1345	Introduction to Oracle SQL	3
ITSE 2410	iOS Application Development	4
ITSE 1411	Beginning Web Programming	4
	Semester Total	11
	SECOND YEAR	
First Semeste	er - Fall	
ITSE 2402	Intermediate Web Programming	4
ITSE 2472	Mobile Application Programming II (Capstone)	4
	Semester Total	8
Total Minimum Credits for the Level 2 Certificate		32

COMPUTER PROGRAMMING - SHAREPOINT ADMINISTRATOR

Certificate -	- Level 2	SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
COSC 1436	Programming Fundamentals I	4
ITSC 1319	Internet/Web Page Development	3
MATH 1314	College Algebra	3
	Semester Total	13
Second Seme	ester - Spring	
INEW 2475	SharePoint Administration I	4
ITSE 1346	Database Theory & Design OR	
ITSE 1345	Introduction to Oracle SQL	3
ITSE 2402	Intermediate Web Programming	4
	Semester Total	11
	SECOND YEAR	
First Semeste	er - Fall	
INEW 1340	ASP.NET Programming	3
INEW 2476	SharePoint Administration II (Capstone)	4
	Semester Total	7
Total Minimu	m Credits for the Level 2 Certificate	31

COMPUTER PROGRAMMING - WEB APPLICATION DEVELOPER

Certificate -	Level 2	SCH
	FIRST YEAR	
First Semeste	r - Fall	
EDUC 1300	Learning Framework	3
COSC 1436	Programming Fundamentals I	4
ITSC 1319	Internet/Web Page Development	3
MATH 1314	College Algebra	3
	Semester Total	13
Second Semes	ster - Spring	
ITSE 2402	Intermediate Web Programming	4
COSC 1437	Programming Fundamentals II	4
ITSC 1309	Integrated Software Applications I OR	
BCIS 1305	Business Computer Applications	3
ITSC 1307	UNIX Operating System I OR	
ITMT 1358	Windows Client Operating System	3
	Semester Total	14
	SECOND YEAR	
First Semeste	r - Fall	
ITSE 13461	Database Theory & Design (Capstone) OR	
ITSE 13451	Introduction to Oracle SQL	3
	Semester Total	3
Total Minimu	n Credits for the Level 2 Certificate	30
	¹ Choose one as the capstone ITSE 1346 or ITSE 1345	

COMPUTER SYSTEMS NETWORKING

COMPUTER SYSTEMS NETWORKING - CISCO SPECIALIZATION

Associate of	Applied Science	SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
MATH 1314	College Algebra	3
ITSC 1309	Integrated Software Applications I OR	
BCIS 1305	Business Computer Applications	3
ITSC 1316	Linux Installation & Configuration OR	
ITSC 1307	UNIX Operating System I OR	
ITMT 1358	Windows Client Operating System	3
	Semester Total	15
Second Semest	ter - Spring	
ITSC 1319	Internet/Web Page Development	3
ITSC 1425	Personal Computer Hardware	4
ITCC 1414	CCNA 1: Introduction to Networks	4
ITSY 1342	Information Technology Security	3
	Semester Total	14
Third Semester	r - Summer	
ITCC 1444	CCNA 2: Switching, Routing & Wireless Essentials	4
XXXX #3##1	Humanities/Fine Arts Elective	3
	Semester Total	7
	SECOND YEAR	
First Semester	- Fall	
XXXX #3##¹	Social/Behavioral Sciences Elective	3
ITCC 2420	CCNA 3: Enterprise Networking, Security, and Automation	4
XXXX #3##¹	General Education Elective	3
ITSC 1358	UNIX System Administration I	3
	Semester Total	13
Second Semest	ter - Spring	
ITCC 2441	CCNA Security	4
ITSY 2401	Firewalls & Network Security	4
ITNW 1380	Cooperative Education - Computer Systems Networking & Telecommunications OR	
ITNW 2335	Network Troubleshooting & Support (Capstone)	3
	Semester Total	11
Total Minimum	Credits for the AAS Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog.	

COMPUTER SYSTEMS NETWORKING - CERTIFIED CISCO NETWORK PROFESSIONAL (CCNP)

Certificate	- Level 1	SCH
	FIRST YEAR	
First Semeste	er - Fall	
ITCC 1414	CCNA 1: Introduction to Networks	4
	Semester Total	4
Second Seme	ester - Spring	
ITCC 1444	CCNA 2: Switching, Routing & Wireless Essentials	4
ITCC 2420	CCNA 3: Enterprise Networking, Security, and Automation	4
	Semester Total	8
Third Semest	ter - Summer	
ITSY 2401	Firewalls & Network Security	4
	Semester Total	4
	SECOND YEAR	
First Semeste	er - Fall	
ITCC 2454	CCNP R&S ROUTE	4
ITCC 2455	CCNP R&S SWITCH	4
	Semester Total	8
Second Seme	ester - Spring	
ITCC 2456	CCNP R&S TSHOOT (Capstone)	4
ITSC 1307	UNIX Operating System I	3
	Semester Total	7
Total Minimu	ım Credits for the Level 1 Certificate	31

COMPUTER SYSTEMS NETWORKING - CERTIFIED CISCO NETWORK ASSOCIATE (CCNA)

Certificate	- Level 1	SCH
First Semeste	er - Fall	
ITCC 1414	CCNA 1: Introduction to Networks	4
	Semester Total	4
Second Seme	ester - Spring	
ITCC 1444	CCNA 2: Switching, Routing & Wireless Essentials	4
ITCC 2420	CCNA 3: Enterprise Networking, Security, and Automation	4
	Semester Total	8
Third Semest	ter - Summer	
ITSY 2401	Firewalls & Network Security	4
	Semester Total	4
Total Minimu	ım Credits for the Level 1 Certificate	16

COMPUTER SYSTEMS NETWORKING - CYBERSECURITY- SPECIALIZATION

Associate of	Applied Science	SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
MATH 1314	College Algebra	3
BCIS 1305	Business Computer Applications OR	
ITMT 1358	Windows Client Operating System	3
ITSC 1307	UNIX Operating System I	3
	Semester Total	15
Second Semes	ter - Spring	
XXXX #3## ¹	Humanities/Fine Arts Elective	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
ITNW 1425	Fundamentals of Networking Technologies OR	
ITCC 1414	CCNA 1: Introduction to Networks	4
ITSY 1342	Information Technology Security	3
COSC 1436	Programming Fundamentals I	4
	Semester Total	17
Third Semeste	r - Summer	
ITMT 1357	Administering a Windows Server Operating System	3
	Semester Total	3
	SECOND YEAR	
First Semester	- Fall	
XXXX #3##¹	Social/Behavioral Sciences Elective	3
ITNW 1313	Computer Virtualization	3
ITSY 2330	Intrusion Detection	3
ITSY 2401	Firewalls & Network Security	4
	Semester Total	13
Second Semes	ter - Spring	
ITSY 2443	Computer System Forensics	4
ITSY 1491	Special Topics in Information Technology/Security	4
ITSY 2472	Cybersecurity Challenge (Capstone)	4
	Semester Total	12
Total Minimun	n Credits for the AAS Degree	60
	¹ A list of electives annears in the Core Curriculum section of this catalog	

COMPUTER SYSTEMS NETWORKING - CYBERSECURITY- SPECIALIZATION

Certificate	- Level 1	SCH
First Semeste	er - Fall	
ITSC 1307	UNIX Operating System I	3
ITMT 1358	Windows Client Operating System	3
ITNW 1425	Fundamentals of Networking Technologies OR	
ITCC 1414	CCNA 1: Introduction to Networks	4
	Semester Total	10
Second Seme	ester - Spring	
ITSY 1342	Information Technology Security	3
ITSY 2330	Intrusion Detection (Capstone)	3
	Semester Total	6
Total Minimu	um Credits for the Level 1 Certificate	16

COMPUTER SYSTEMS NETWORKING - CYBERSECURITY

Certificate	- Level 2	SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
ITSC 1307	UNIX Operating System I	3
BCIS 1305	Business Computer Applications OR	
ITMT 1358	Windows Client Operating System	3
ITNW 1425	Fundamentals of Networking Technologies OR	
ITCC 1414	CCNA 1: Introduction to Networks	4
	Semester Total	13
Second Seme	ester - Spring	
ITSY 1342	Information Technology Security	3
ITNW 1313	Computer Virtualization	3
	Semester Total	6
	SECOND YEAR	
First Semeste	er - Fall	
ITSY 2401	Firewalls & Network Security	4
ITSY 2330	Intrusion Detection	3
ITSY 2443	Computer System Forensics	4
	Semester Total	11
Second Seme	ester - Spring	
ITSY 1491	Special Topics in Information Technology/Security	4
ITSY 2472	Cybersecurity Challenge (Capstone)	4
	Semester Total	8
Total Minimu	ım Credits for the Level 2 Certificate	38

COMPUTER SYSTEMS NETWORKING - INFORMATION TECHNOLOGY CORE

Certificate	- Level 1	SCH
First Semeste	er - Fall	
ITSC 1301	Introduction to Computers	3
ITSC 1425	Personal Computer Hardware	4
ITMT 1358	Windows Client Operating System	3
ITSC 1307	UNIX Operating System I	3
	Semester Total	13
Second Seme	ester - Spring	
ITNW 1425	Fundamentals of Networking Technologies	4
ITSE 1402	Computer Programming (Swift I)	4
ITSY 1342	Information Technology Security (Capstone)	3
ITNW 1313	Computer Virtualization	3
	Semester Total	14
Total Minimu	um Credits for the Level 1 Certificate	30

COMPUTER SYSTEMS NETWORKING - LINUX SERVER ADMINISTRATOR SPECIALIZATION

Associate of	f Applied Science	SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
MATH 1314	College Algebra	3
ITSC 1307	UNIX Operating System I	3
ITSC 1425	Personal Computer Hardware	4
	Semester Total	16
Second Semes	ter - Spring	
ENGL 1302	Composition II	3
ITSC 1458	UNIX System Administration I	4
ITNW 1425	Fundamentals of Networking Technologies OR	
ITCC 1414	CCNA 1: Introduction to Networks	4
XXXX #3##¹	Humanities/Fine Arts Elective	3
	Semester Total	14
Third Semeste	r - Summer	
ITSC 1319	Internet/Web Page Development OR	
ITSC 1391	Special Topics in Computer and Information Sciences, General (Linux OS Red Hat)	3
XXXX #3## ¹	Humanities/Fine Arts Elective	3
	Semester Total	6
	SECOND YEAR	
First Semester	- Fall	
ITSC 1447	UNIX System Administration II	4
ITNW 1313	Computer Virtualization	3
ITSY 1342	Information Technology Security	3
XXXX #3##¹	Social/Behavioral Sciences Elective	3
	Semester Total	13
Second Semes	ter - Spring	
ITSC 2425	Advanced Linux (Capstone)	4
ITSC 1491	Special Topics in Computer and Information Sciences, General	4
XXXX #3##²	Program Approved Business Elective	3
	Semester Total	11
Total Minimur	n Credits for the AAS Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog.	

²Consult with an advisor to select a Program Approved Business Elective.

COMPUTER SYSTEMS NETWORKING - LINUX SYSTEM ADMINISTRATION SPECIALIZATION

Certificate -	Certificate - Level 1	
First Semeste	r - Fall	
ITSC 1425	Personal Computer Hardware	4
ITSC 1307	UNIX Operating System I	3
ITNW 1425	Fundamentals of Networking Technologies OR	
ITCC 1414	CCNA 1: Introduction to Networks	4
	Semester Total	11
Second Seme	ster - Spring	
ITSC1319	Internet/Web Page Development OR	
ITSC 1391	Special Topics in Computer and Information Sciences, General (Linux OS Red Hat)	3
ITSC 1491	Special Topics in Computer and Information Sciences, General	4
ITSC 1458	UNIX System Administration I (Capstone)	4
	Semester Total	11
Total Minimu	m Credits for the Level 1 Certificate	22

COMPUTER SYSTEMS NETWORKING - LINUX ADMINISTRATOR

Certificate	- Level 2	SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
ITSC 1425	Personal Computer Hardware	4
ITSC 1307	UNIX Operating System I	3
ITNW 1425	Fundamentals of Networking Technologies OR	
ITCC 1414	CCNA 1: Introduction to Networks	4
	Semester Total	14
Second Seme	ster - Spring	
ITSC 1458	UNIX System Administration I	4
ITSC 1319	Internet/Web Page Development OR	
ITSC 1391	Special Topics in Computer and Information Sciences, General (Linux OS Red Hat)	3
	Semester Total	7
Third Semest	er - Summer	
ITSC 1447	UNIX System Administration II	4
ITNW 1313	Computer Virtualization	3
	Semester Total	7
	SECOND YEAR	
First Semeste	er - Fall	
ITSC 1491	Special Topics in Computer and Information Sciences, General	4
ITSC 2425	Advanced Linux (Capstone)	4
	Semester Total	8
Total Minimu	m Credits for the Level 2 Certificate	36

COMPUTER SYSTEMS NETWORKING - MICROSOFT SERVER ADMINISTRATION SPECIALIZATION

Associate of Applied Science		SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ITSC 1309	Integrated Software Applications I OR	
BCIS 1305	Business Computer Applications	3
MATH 1314	College Algebra	3
ITSC 1425	Personal Computer Hardware	4
ITMT 1358	Windows Client Operating System	3
	Semester Total	16
Second Semes	ter - Spring	
ENGL 1301	Composition I	3
ITNW 1425	Fundamentals of Networking Technologies OR	
ITCC 1414	CCNA 1: Introduction to Networks	4
ITMT 1357	Administering a Windows Server Operating System	3
ITSY 1342	Information Technology Security	3
	Semester Total	13
Third Semeste	r - Summer	
XXXX #3## ¹	General Education Elective	3
ITSC 1319	Internet/Web Page Development	3
	Semester Total	6
	SECOND YEAR	
First Semester	- Fall	
ITNW 1313	Computer Virtualization	3
COSC 1436	Programming Fundamentals I	4
ITMT 2304	Implementing an Advanced Server Infrastructure	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
	Semester Total	13
Second Semes	ter - Spring	
ITMT 2305	Designing & Implementing a Server Infrastructure	3
ITSY 2330	Intrusion Detection	3
ITNW 1380	Cooperative Education - Computer Systems Networking & Telecommunications OR	
ITNW 2335	Network Troubleshooting & Support (Capstone)	3
XXXX #3## ¹	Humanities/Fine Arts Elective	3
	Semester Total	12
Total Minimum Credits for the AAS Degree 60		
	¹ A list of electives appears in the Core Curriculum section of this catalog.	

COMPUTER SYSTEMS NETWORKING - MICROSOFT SERVER ADMINISTRATION

Certificate - Level 1		SCH
First Semeste	er - Fall	
ITMT 1358	Windows Client Operating System	3
ITSC 1309	Integrated Software Applications I OR	
BCIS 1305	Business Computer Applications	3
ITSC 1425	Personal Computer Hardware	4
	Semester Total	10
Second Seme	ester - Spring	
ITMT 1357	Administering a Windows Server Operating System (Capstone)	3
ITNW 1425	Fundamentals of Networking Technologies OR	
ITCC 1414	CCNA 1: Introduction to Networks	4
ITSY 1342	Information Technology Security	3
	Semester Total	10
Total Minimum Credits for the Level 1 Certificate		20

COMPUTER SYSTEMS NETWORKING - MICROSOFT SERVER ADMINISTRATION Certificate - Level 2 **SCH FIRST YEAR** First Semester - Fall EDUC 1300 Learning Framework 3 ITSC 1309 Integrated Software Applications I OR BCIS 1305 **Business Computer Applications** 3 Windows Client Operating System ITMT 1358 3 Personal Computer Hardware ITSC 1425 4 **Semester Total** 13 Second Semester - Spring Administering a Windows Server Operating System ITMT 1357 3 ITNW 1425 Fundamentals of Networking Technologies OR ITCC 1414 CCNA 1: Introduction to Networks 4 ITSY 1342 Information Technology Security 3 **Semester Total** 10 **Third Semester - Summer** ITSC 1319 Internet/Web Page Development 3 **Semester Total** 3 **SECOND YEAR** First Semester - Fall Computer Virtualization ITNW 1313 3 ITSY 2330 Intrusion Detection 3 ITMT 2304 Implementing an Advanced Server Infrastructure (Capstone) 3 **Semester Total** 9

Total Minimum Credits for the Level 2 Certificate

35

DIGITAL COMMUNICATION

DIGITAL COMMUNICATION - GENERAL

Associate of Applied Science		
FIRST YEAR		
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ARTC 1325	Introduction to Computer Graphics	3
ARTC 1302	Digital Imaging I (Photoshop)	3
ARTC 1309	Basic Illustration	3
ARTC 1305	Basic Graphic Design	3
	Semester Total	15
Second Semes	ter - Spring	
ARTC 1353	Computer Illustration (Illustrator)	3
PHTC 1311	Fundamentals of Photography	3
ARTC 1313	Digital Publishing I	3
IMED 1316	Web Design I	3
ARTV 1351	Digital Video	3
	Semester Total	15
Third Semeste	r - Summer	
IMED 1341	Interface Design	3
XXXX #3## ¹	General Education Elective	3
	Semester Total	6
	SECOND YEAR	
First Semester	- Fall	
IMED 2359	Interactive Web Elements	3
IMED 1359	Writing for Digital Media	3
ARTS 1303	Art History I	3
XXXX #3## ¹	Humanities/Fine Arts Elective	3
	Semester Total	12
Second Semes	ter - Spring	
ARTV 1345	3-D Modeling & Rendering I	3
ARTC 2335	Portfolio Development for Graphic Design OR	
IMED 2313	Project Analysis & Design	3
XXXX #3##¹	Math/Natural Science Elective	3
IMED 2388	Internship - Digital Communication & Media/Multimedia (Capstone)	3
	Semester Total	12
Total Minimum Credits for the AAS Degree 60		
	¹ A list of electives appears in the Core Curriculum section of this catalog.	

DIGITAL COMMUNICATION - GENERAL

Certificate - Level 1		SCH
First Semeste	er - Fall	
ARTC 1325	Introduction to Computer Graphics	3
ARTC 1305	Basic Graphic Design	3
ARTC 1302	Digital Imaging I (Photoshop)	3
	Semester Total	9
Second Seme	ester - Spring	
PHTC 1311	Fundamentals of Photography	3
IMED 1316	Web Design I (Capstone)	3
ARTV 1351	Digital Video	3
	Semester Total	9
Total Minimum Credits for the Level 1 Certificate		18

DIGITAL COMMUNICATION - GENERAL

Certificate -	- Level 2	SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
ARTC 1325	Introduction to Computer Graphics	3
ARTC 1302	Digital Imaging I (Photoshop)	3
ARTC 1309	Basic Illustration	3
ARTC 1305	Basic Graphic Design	3
	Semester Total	15
Second Seme	ester - Spring	
PHTC 1311	Fundamentals of Photography	3
ARTC 1353	Computer Illustration (Illustrator)	3
IMED 1316	Web Design I	3
	Semester Total	9
	SECOND YEAR	
First Semeste	er - Fall	
IMED 1341	Interface Design	3
IMED 2359	Interactive Web Elements	3
ARTV 1351	Digital Video	3
	Semester Total	9
Second Seme	ster - Spring	
IMED 1359	Writing for Digital Media	3
ARTV 1345	3-D Modeling & Rendering I	3
ARTC 1313	Digital Publishing I	3
ARTC 2335	Portfolio Development for Graphic Design OR	
IMED 2313	Project Analysis & Design (Capstone)	3
	Semester Total	12
Total Minimu	m Credits for the Level 2 Certificate	45

DIGITAL COMMUNICATION - XR DESIGN & DEVELOPMENT SPECIALIZATION **Associate of Applied Science SCH FIRST YEAR** First Semester - Fall EDUC 1300 Learning Framework 3 ARTC 1302 Digital Imaging I (Photoshop) 3 Basic Graphic Design ARTC 1305 3 Interactive Digital Media I (Virtual Reality -Introduction) IMED 1345 3 **Semester Total** 12 Second Semester - Spring Digital Video ARTV 1351 3 IMED 1341 Interface Design 3 IMED 2345 Interactive Digital Media II (Virtual Reality - Intermediate) 3 ARTV 1345 3-D Modeling & Rendering I 3 Computer Illustration (Illustrator) ARTC 1353 3 **Semester Total** 15 Third Semester - Summer XXXX #3##¹ Math/Natural Science Elective 3 IMED 1359 Writing for Digital Media 3 **Semester Total** 6 **SECOND YEAR** First Semester - Fall Art History I ARTS 1303 3 ARTV 2341 Advanced Digital Video 3 3-D Modeling & Rendering II ARTV 2345 3 ARTV 2301 2-D Animation I 3 ITXR 2375 Advanced XR Design 3 **Semester Total** 15 Second Semester - Spring XXXX #3##¹ General Education Elective 3 XXXX #3##1 General Education Elective 3 IMED 2313 Project Analysis & Design (Assessment) 3 IMED 2388 Internship - Digital Communication & Media/Multimedia (Capstone) 3 **Semester Total** 12 **Total Minimum Credits for the AAS Degree** 60

¹A list of electives appears in the Core Curriculum section of this catalog.

DIGITAL COMMUNICATION - XR DESIGN & DEVELOPMENT SPECIALIZATION

Certificate - Level 1		SCH
First Semeste	er - Fall	
ARTC 1302	Digital Imaging I (Photoshop)	3
ARTC 1305	Basic Graphic Design	3
ARTV 1351	Digital Video	3
	Semester Total	9
Second Seme	ester - Spring	
IMED 1341	Interface Design	3
ARTV 1345	3-D Modeling & Rendering I	3
IMED 1345	Interactive Digital Media I (Virtual Reality -Introduction) (Capstone)	3
	Semester Total	9
Total Minimu	m Credits for the Level 1 Certificate	18

DIGITAL COMMUNICATION - XR DESIGN & DEVELOPMENT SPECIALIZATION

Certificate -	Level 2	SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
IMED 1345	Interactive Digital Media I (Virtual Reality -Introduction)	3
ARTV 1345	3-D Modeling & Rendering I	3
ARTC 1302	Digital Imaging I (Photoshop)	3
	Semester Total	12
Second Semes	ter - Spring	
ARTC 1305	Basic Graphic Design	3
IMED 2345	Interactive Digital Media II (Virtual Reality - Intermediate)	3
ARTC 1353	Computer Illustration (Illustrator)	3
ARTV 2345	3-D Modeling & Rendering II	3
	Semester Total	12
	SECOND YEAR	
First Semester	- Fall	
ITXR 2375	Advanced XR Design	3
ARTV 1351	Digital Video	3
IMED 1341	Interface Design	3
IMED 1359	Writing for Digital Media	3
	Semester Total	12
Second Semes	ter - Spring	
ARTV 2301	2-D Animation I	3
ARTV 2341	Advanced Digital Video	3
IMED 2313	Project Analysis & Design (Capstone)	3
	Semester Total	9
Total Minimum Credits for the Level 2 Certificate		45

^{*} TSI testing is required prior to first enrollment

DIGITAL COMMUNICATION - DIGITAL PHOTOGRAPHY SPECIALIZATION Associate of Applied Science SCH FIRST YEAR First Semester - Fall EDUC 1300 Learning Framework 3 PHTC 1343 **Expressive Photography** 3 Adobe Photoshop Lightroom CC PHTC 1371 3 Digital Imaging I (Photoshop) ARTC 1302 3 Fundamentals of Photography PHTC 1311 3 **Semester Total** 15 Second Semester - Spring PHTC 2349 Photo Digital Imaging II 3 IMED 1359 Writing for Digital Media 3 ARTC 1305 Basic Graphic Design 3 PHTC 1353 Portraiture I 3 **Semester Total** 12 Third Semester - Summer XXXX #3##1 Humanities/Fine Arts Elective 3 ARTV 1351 Digital Video 3 ARTS 1303 Art History I 3 **Semester Total** 9 **SECOND YEAR** First Semester - Fall PHTC 1345 Illustrative Photography I 3 PHTC 1351 Photojournalism I 3 PHTC 2353 Portraiture II 3 XXXX #3##¹ General Education Elective 3 **Semester Total** 12 Second Semester - Spring XXXX #3##1 Math/Natural Science Elective 3 PHTC 2340 Photographic Studio Management 3 IMED 2388 Internship - Digital Communication & Media/Multimedia (Capstone) 3 PHTC 2343 Portfolio Development 3 **Semester Total** 12 **Total Minimum Credits for the AAS Degree** 60

¹A list of electives appears in the Core Curriculum section of this catalog.

DIGITAL COMMUNICATION - DIGITAL PHOTOGRAPHY SPECIALIZATION

Certificate - Level 1		SCH
First Semeste	er - Fall	
ARTC 1302	Digital Imaging I (Photoshop)	3
ARTC 1305	Basic Graphic Design	3
PHTC 1311	Fundamentals of Photography	3
	Semester Total	9
Second Seme	ester - Spring	
IMED 1359	Writing for Digital Media	3
PHTC 1353	Portraiture I	3
PHTC 1343	Expressive Photography (Capstone)	3
	Semester Total	9
Total Minimum Credits for the Level 1 Certificate		18

DIGITAL COMMUNICATION - DIGITAL PHOTOGRAPHY SPECIALIZATION

Certificate - Level 2		SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
PHTC 1371	Adobe Photoshop Lightroom CC	3
PHTC 1311	Fundamentals of Photography	3
PHTC 1343	Expressive Photography	3
ARTC 1302	Digital Imaging I (Photoshop)	3
	Semester Total	15
Second Seme	ester - Spring	
PHTC 2349	Photo Digital Imaging II	3
IMED 1359	Writing for Digital Media	3
ARTC 1305	Basic Graphic Design	3
PHTC 1353	Portraiture I	3
	Semester Total	12
	SECOND YEAR	
First Semeste	er - Fall	
PHTC 1351	Photojournalism I	3
PHTC 1345	Illustrative Photography I	3
ARTV 1351	Digital Video	3
PHTC 2353	Portraiture II	3
	Semester Total	12
Second Seme	ester - Spring	
PHTC 2343	Portfolio Development	3
PHTC 2340	Photographic Studio Management (Capstone)	3
	Semester Total	6
Total Minimu	ım Credits for the Level 2 Certificate	45

DIGITAL COMMUNICATION - GRAPHIC DESIGN SPECIALIZATION

Associate of	Applied Science	SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ARTC 2311	History of Communication Graphics	3
ARTC 1302	Digital Imaging I (Photoshop)	3
ARTC 1309	Basic Illustration	3
ARTC 1305	Basic Graphic Design	3
	Semester Total	15
Second Semes	ter - Spring	
ARTC 1313	Digital Publishing I	3
ARTC 1321	Illustration Techniques I	3
ARTC 1353	Computer Illustration (Illustrator)	3
XXXX #3##¹	Humanities/Fine Arts Elective	3
	Semester Total	12
Third Semeste	r - Summer	
XXXX #3## ¹	Math/Natural Science Elective	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
	Semester Total	6
	SECOND YEAR	
First Semester	- Fall	
ARTC 1317	Design Communication I	3
ARTC 2313	Digital Publishing II	3
ARTC 2305	Digital Imaging II	3
ARTC 2317	Typographic Design	3
	Semester Total	12
Second Semes	ter - Spring	
XXXX #3##¹	General Education Elective	3
ARTC 2347	Design Communication II	3
ARTC 2335	Portfolio Development for Graphic Design	3
IMED 1316	Web Design I	3
	Semester Total	12
Third Semeste		
IMED 2388	Internship - Digital Communication & Media/Multimedia (Capstone)	3
	Semester Total	3
Total Minimun	r Credits for the AAS Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog.	

DIGITAL COMMUNICATION - GRAPHIC DESIGN SPECIALIZATION

Certificate	- Level 1	SCH
First Semeste	er - Fall	
ARTC 1302	Digital Imaging I (Photoshop)	3
ARTC 1305	Basic Graphic Design	3
ARTC 1309	Basic Illustration	3
	Semester Total	9
Second Seme	ester - Spring	
IMED 1316	Web Design I	3
ARTC 1353	Computer Illustration (Illustrator)	3
ARTC 1313	Digital Publishing I (Capstone)	3
	Semester Total	9
Total Minimu	ım Credits for the Level 1 Certificate	18

DIGITAL COMMUNICATION - GRAPHIC DESIGN SPECIALIZATION

Certificate	- Level 2	SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
ARTC 1305	Basic Graphic Design	3
ARTC 2311	History of Communication Graphics	3
ARTC 1302	Digital Imaging I (Photoshop)	3
ARTC 1309	Basic Illustration	3
	Semester Total	15
Second Seme	ester - Spring	
ARTC 1321	Illustration Techniques I	3
ARTC 1353	Computer Illustration (Illustrator)	3
ARTC 1317	Design Communication I	3
ARTC 1313	Digital Publishing I	3
	Semester Total	12
	SECOND YEAR	
First Semeste	er - Fall	
ARTC 2313	Digital Publishing II	3
ARTC 2305	Digital Imaging II	3
IMED 1316	Web Design I	3
ARTC 2317	Typographic Design	3
	Semester Total	12
Second Seme	ester - Spring	
ARTC 2347	Design Communication II	3
ARTC 2335	Portfolio Development for Graphic Design (Capstone)	3
	Semester Total	6
Total Minimu	m Credits for the Level 2 Certificate	45

DIGITAL COMMUNICATION - MOBILE APPLICATION

Certificate	- Level 1	SCH
First Semeste	er - Fall	
ARTC 1325	Introduction to Computer Graphics	3
IMED 1316	Web Design I	3
IMED 1341	Interface Design	3
	Semester Total	9
Second Seme	ester - Spring	
IMED 2351	Digital Media Programming	3
IMED 2359	Interactive Web Elements	3
IMED 2345	Interactive Digital Media II (Capstone)	3
	Semester Total	9
Total Minimum Credits for the Level 1 Certificate		18

DIGITAL COMMUNICATION - VISUAL EFFECTS & MOTION GRAPHICS SPECIALIZATION **Associate of Applied Science** SCH **FIRST YEAR** First Semester - Fall EDUC 1300 Learning Framework 3 ARTC 1302 Digital Imaging I (Photoshop) 3 **Basic Animation** ARTV 1303 3 **Basic Illustration** ARTC 1309 3 3-D Modeling & Rendering I ARTV 1345 3 **Semester Total** 15 Second Semester - Spring XXXX #3##1 Math/Natural Science Elective 3 ARTV 2301 2-D Animation I 3 ARTV 2345 3-D Modeling & Rendering II 3 ARTV 1351 Digital Video 3 Computer Illustration (Illustrator) ARTC 1353 3 **Semester Total** 15 Third Semester - Summer ARTS 1303 Art History I 3 XXXX #3##1 Social/Behavioral Sciences Elective 3 **Semester Total SECOND YEAR** First Semester - Fall ARTV 2355 Character Rigging & Animation 3 ARTV 2330 2-D Animation II 3 ARTC 1359 Visual Design For New Media 3 Advanced Digital Video ARTV 2341 3 XXXX #3##1 General Education Elective 3 **Semester Total** 15 Second Semester - Spring XXXX #3##1 Humanities/Fine Arts Elective 3 ARTV 2335 Portfolio Development for Animation 3 IMED 2388 Internship-Digital Communication & Media/Multimedia (Capstone) 3 **Semester Total** 9 **Total Minimum Credits for the AAS Degree** 60

¹A list of electives appears in the Core Curriculum section of this catalog.

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DIGITAL COMMUNICATION - VISUAL EFFECTS & MOTION GRAPHICS SPECIALIZATION Certificate - Level 1 SCH **FIRST YEAR** First Semester - Fall ARTC 1302 Digital Imaging I (Photoshop) 3 ARTV 1303 **Basic Animation** 3 ARTC 1309 **Basic Illustration** 3 **Semester Total** 9 Second Semester - Spring 3-D Modeling & Rendering I ARTV 1345 3 ARTC 1305 Basic Graphic Design 3 ARTV 2301 2-D Animation I (Capstone) 3

Semester Total

Total Minimum Credits for the Level 1 Certificate

DIGITAL COMMUNICATION - VISUAL EFFECTS & MOTION GRAPHICS SPECIALIZATION Certificate - Level 2 FIRST YEAR

	FIRST YEAR	50
First Semester -	Fall	
EDUC 1300	Learning Framework	3
ARTC 1302	Digital Imaging I (Photoshop)	3
ARTV 1303	Basic Animation	3
ARTC 1309	Basic Illustration	3
ARTV 1345	3-D Modeling & Rendering I	3
	Semester Total	15
Second Semeste	er - Spring	
ARTV 2345	3-D Modeling & Rendering II	3
ARTV 1351	Digital Video	3
ARTC 1353	Computer Illustration (Illustrator)	3
ARTC 1305	Basic Graphic Design	3
ARTV 2301	2-D Animation I	3
	Semester Total	15
	SECOND YEAR	
First Semester -	Fall	
ARTV 2330	2-D Animation II	3
ARTV 2355	Character Rigging & Animation	3
ARTC 1359	Visual Design For New Media	3
ARTV 2341	Advanced Digital Video	3
	Semester Total	12
Second Semeste	er - Spring	
ARTV 2335	Portfolio Development for Animation (Capstone)	3
	Semester Total	3
Total Minimum	Credits for the AAS Degree	45

¹A list of electives appears in the Core Curriculum section of this catalog.

DIGITAL COMMUNICATION - WEB PUBLISHING SPECIALIZATION

Associate o	f Applied Science	SCH
	FIRST YEAR	
First Semester	r - Fall	
EDUC 1300	Learning Framework	3
ARTC 1325	Introduction to Computer Graphics	3
ARTC 1305	Basic Graphic Design	3
IMED 1316	Web Design I	3
ARTC 1302	Digital Imaging I (Photoshop)	3
	Semester Total	15
Second Semes	ster - Spring	
XXXX #3## ¹	General Education Elective	3
IMED 2351	Digital Media Programming	3
IMED 1341	Interface Design	3
IMED 2315	Web Design II	3
	Semester Total	12
Third Semeste	er - Summer	
IMED 2359	Interactive Web Elements	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
XXXX #3## ¹	Math/Natural Science Elective	3
	Semester Total	9
	SECOND YEAR	
First Semester	r - Fall	
IMED 1359	Writing for Digital Media	3
IMED 2309	Internet Commerce	3
ARTV 1351	Digital Video	3
ARTS 1303	Art History I	3
	Semester Total	12
Second Semes	ster - Spring	
IMED 2371	Content Management Systems	3
IMED 2313	Project Analysis & Design	3
XXXX #3## ¹	Approved Program Elective	3
IMED 2388	Internship-Digital Communication & Media/Multimedia (Capstone)	3
	Semester Total	12
Total Minimur	n Credits for the AAS Degree	60
	1 A list of alactives appears in the Core Curriculum section of this catalog	

¹A list of electives appears in the Core Curriculum section of this catalog.

DIGITAL COMMUNICATION - WEB PUBLISHING SPECIALIZATION

Certificate	- Level 1	SCH
First Semeste	er - Fall	
ARTC 1325	Introduction to Computer Graphics	3
ARTC 1305	Basic Graphic Design	3
IMED 1341	Interface Design	3
IMED 1316	Web Design I	3
	Semester Total	12
Second Seme	ester - Spring	
ARTC 1302	Digital Imaging I (Photoshop)	3
IMED 2359	Interactive Web Elements (Capstone)	3
	Semester Total	6
Total Minimu	ım Credits for the Level 1 Certificate	18

DIGITAL COMMUNICATION - WEB PUBLISHING SPECIALIZATION

Certificate ·	- Level 2	SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
ARTC 1325	Introduction to Computer Graphics	3
ARTC 1305	Basic Graphic Design	3
IMED 1316	Web Design I	3
ARTC 1302	Digital Imaging I (Photoshop)	3
	Semester Total	15
Second Seme	ester - Spring	
IMED 1341	Interface Design	3
IMED 2351	Digital Media Programming	3
IMED 2315	Web Design II	3
	Semester Total	9
	SECOND YEAR	
First Semeste	er - Fall	
IMED 2359	Interactive Web Elements	3
ARTV 1351	Digital Video	3
IMED 2309	Internet Commerce	3
	Semester Total	9
Second Seme	ester - Spring	
IMED 2371	Content Management Systems	3
IMED 1359	Writing for Digital Media	3
IMED 2313	Project Analysis & Design (Capstone)	3
	Semester Total	9
Total Minimu	ım Credits for the Level 2 Certificate	42

DIGITAL GAMING

DIGITAL GAMING & SIMULATION FOR ARTISTS

Associate of	f Applied Science	SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
GAME 1378	Art for 2D Games	3
GAME 1306	Design & Creation of Games	3
GAME 1373	Introduction to Perspective Drawing	3
GAME 1336	Introduction to 3D Game Modeling	3
	Semester Total	15
Second Semes	eter - Spring	
ARTS 1303	Art History I OR	
ARTS 1304	Art History II (14th century to present)	3
GAME 1375	Principles of Game Concept Art	3
GAME 2312	Interactive Audio OR	
GAME 2341	Game Scripting	3
GAME 1304	Level Design	3
GAME 2376	Advanced 3D Game Modeling	3
	Semester Total	15
Third Semeste	er - Summer	
XXXX #3##¹	Social/Behavioral Sciences Elective	3
XXXX #3## ¹	Math/Natural Science Elective	3
	Semester Total	6
	SECOND YEAR	
First Semester	- Fall	
GAME 1314	Character Sculpting	3
GAME 2304	Level Design II	3
GAME 2332	Project Development I	3
GAME 1374	Introduction to 3D Game Animation	3
	Semester Total	12
Second Semes	ter - Spring	
GAME 2374	3D Rigging for Games & Simulations	3
PSYC 2301	General Psychology	3
GAME 2308	Portfolio for Game Development	3
GAME 2334	Project Development II (Capstone)	3
	Semester Total	12
Total Minimun	n Credits for the AAS Degree	60

¹A list of electives appears in the Core Curriculum section of this catalog.

DIGITAL GAMING & SIMULATION FOR ARTISTS

Certificate -	- Level 2	SCH
	FIRST YEAR	
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
GAME 1378	Art for 2D Games	3
GAME 1306	Design & Creation of Games	3
GAME 1373	Introduction to Perspective Drawing	3
GAME 1336	Introduction to 3D Game Modeling	3
	Semester Total	15
Second Semes	ster - Spring	
ARTS 1303	Art History I OR	
ARTS 1304	Art History II (14th century to present)	3
GAME 1375	Principles of Game Concept Art	3
GAME 2312	Interactive Audio OR	
GAME 2341	Game Scripting	3
GAME 1304	Level Design	3
GAME 2376	Advanced 3D Game Modeling	3
	Semester Total	15
	SECOND YEAR	
First Semeste	er - Fall	
GAME 1314	Character Sculpting	3
GAME 2304	Level Design II	3
GAME 1374	Introduction to 3D Game Animation	3
GAME 2332	Project Development I (Capstone)	3
	Semester Total	12
Total Minimu	m Credits for the Level 2 Certificate	42

DIGITAL GAMING & SIMULATION FOR PROGRAMMERS

Associate o	f Applied Science	SCH
	FIRST YEAR	
First Semeste	r - Fall	
EDUC 1300	Learning Framework	3
GAME 1306	Design & Creation of Games	3
GAME 1379	Introduction to Game Programming	3
GAME 2341	Game Scripting	3
MATH 1314	College Algebra	3
	Semester Total	15
Second Semes	ster - Spring	
GAME 2373	2D Game Programming	3
GAME 2312	Interactive Audio	3
GAME 1336	Introduction to 3D Game Modeling	3
GAME 2347	Advanced Game Programming	3
GAME 2302	Mathematical Applications for Game Development	3
	Semester Total	15
Third Semeste	er - Summer	
XXXX #3##¹	Social/Behavioral Sciences Elective	3
XXXX #3## ¹	Humanities/Fine Arts Elective	3
	Semester Total	6
	SECOND YEAR	
First Semeste	r - Fall	
GAME 2319	Game Engine	3
GAME 2304	Level Design II	3
GAME 2342	Game Development Using C++	3
GAME 2332	Project Development I	3
	Semester Total	12
Second Semes	ster - Spring	
PSYC 2301	General Psychology	3
GAME 2379	Motion Capture	3
GAME 2308	Portfolio for Game Development	3
GAME 2334	Project Development II (Capstone)	3
	Semester Total	12
Total Minimu	n Credits for the AAS Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog	

¹A list of electives appears in the Core Curriculum section of this catalog.

DIGITAL GAMING & SIMULATION FOR PROGRAMMERS

Certificate -	Level 2	SCH
	FIRST YEAR	
First Semeste	r - Fall	
EDUC 1300	Learning Framework	3
GAME 1306	Design & Creation of Games	3
GAME 1379	Introduction to Game Programming	3
GAME 2341	Game Scripting	3
MATH 1314	College Algebra	3
	Semester Total	15
Second Seme	ster - Spring	
GAME 2312	Interactive Audio	3
GAME 1336	Introduction to 3D Game Modeling	3
GAME 2373	2D Game Programming	3
GAME 2347	Advanced Game Programming	3
GAME 2302	Mathematical Applications for Game Development	3
	Semester Total	15
	SECOND YEAR	
First Semeste	r - Fall	
GAME 2319	Game Engine	3
GAME 1304	Level Design	3
GAME 2342	Game Development Using C++	3
GAME 2332	Project Development I (Capstone)	3
	Semester Total	12
Total Minimu	m Credits for the Level 2 Certificate	42