Information Technology (A25590)

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

COURSE REQUIREMENTS

Richmond Community College provides day and evening course sequences for selected programs to enable students to better plan what courses to take to reach their educational goals. However, given the continued increase in the use of technology in instruction and increasing student demand for distance learning courses, the College may offer hybrid, online, web-based and information highway courses in place of traditional courses in any course sequence that is listed. Therefore, students should be aware of this possibility and prepare themselves to successfully function in a hybrid, online, web-based, or information highway course.

CYBER SECURITY (A25590A) COURSE REQUIREMENTS

			Work/				
			Class	Lab	Clinical	lCredit	
A. General	Educa	tion Courses					
1. Requ	ired Co	ourses					
ENG	111	Writing and Inquiry	3	0	0	3	
COM	231	Public Speaking	3	0	0	3	
or							
ENG	112	Writing/Research in the Disciplines	3	0	0	3	
MAT	143	Quantitative Literacy	2	2	0	3	
		Humanities/Fine Arts Elective*	3	0	0	3	
		Social/Behavioral Sciences Elective*	3	0	0	3	
B. Major C	ourses	5					
1. Core	Course	es					
To re	ceive a	a degree, diploma or certificate from RCC,	a student	must V	have a gr	ade of "C"	
or bei	tter in	all core courses for the program of study.					
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3	
CTI	120	Network & Security Foundation	2	2	0	3	
CTS	115	Info Sys Business Concepts	3	0	0	3	
CTS	120	Hardware/Software Support	2	3	0	3	

С.

			Total Credit Hours			64-65	
	ACA	122	College Transfer Success	0	2	0	1
. Ot	her Ree	quire	d Courses				
			IT Major Elective**	1-3	0-3	0	4
	WEB	140	Web Development Tools	2	2	0	3
	NOS	230	Windows Administration I	2	2	0	3
	NOS		Windows Single User	2	2	0	3
	NOS	120	Linux/UNIX Single User	2	2	0	3
	DBA	120	Database Programming I	2	2	0	3
	WBL	115	Work-Based Learning Seminar I	1	0	0	1
	and		Work Dused Learning I	Ū	0	10	1
		111	Work-Based Learning I	0	0	10	1
	CTS or	289	System Support Project	1	4	0	3
	CTS	220	Advanced Hard/Software Support	2	3	0	3 3
	CIS		Introduction to Programming Logic	2	3	0	3
2.			Courses	2	2	0	2
•	SEC	160	Security Administration I	2	2	0	3
	SEC	110	Security Concepts	2	2	0	3
			Introduction to Networks	1	4	0	3
		105	T . 1 1	1		0	2

*Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives are listed on the page before the Course Descriptions.

**Approved IT Electives may be selected from courses listed below. Cyber Security students must choose a total of 4 credit hours from this list. Only 3 SCH of SPA are allowed towards the Information Technology degree:

momation reemology degree.									
ACC	115	College Accounting	3	2	0	4			
ACC	120	Principles of Financial Accounting	3	2	0	4			
BUS	110	Introduction to Business	3	0	0	3			
BUS	115	Business Law I	3	0	0	3			
BUS	125	Personal Finance	3	0	0	3			
BUS	137	Principles of Management	3	0	0	3			
BUS	139	Entrepreneurship I	3	0	0	3			
BUS	230	Small Business Management	3	0	0	3			
BUS	260	Business Communications	3	0	0	3			
CHI	111	Elementary Chinese I	3	0	0	3			
CIS	110	Introduction to Computers	2	2	0	3			
CIS	111	Basic PC Literacy	1	2	0	2			
CSC	151	Java Programming	2	3	0	3			
CSC	153	C# Programming	2	3	0	3			
CTS	130	Spreadsheet	2	2	0	3			
CTS	155	Tech Support Functions	2	2	0	3			
ECO	251	Principles of Microeconomics	3	0	0	3			
ECO	252	Principles of Macroeconomics	3	0	0	3			

HBI	110	Issues and Trends in HBI	3	0	0	3
HMT	110	Intro to Healthcare Management	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	221	Consumer Behavior	3	0	0	3
MKT	223	Customer Service	3	0	0	3
OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	110	Intro to Project Management	3	0	0	3
PMT	210	Project Management Issues	2	2	0	3
PMT	215	Project Management Leadership	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3

SEMESTER SCHEDULE CYBER SECURITY (A25590A)

			•)							
					Work/					
			Class	Lab	Clinical	Credit				
		First Year — Fall Semester								
ACA	122	College Transfer Success	0	2	0	1				
CIS	115	Introduction to Programming and Logic	2	3	0	3				
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3				
CTI	120	Network & Security Foundation	2	2	0	3				
CTS	120	Hardware/Software Support	$\frac{1}{2}$	3	0	3				
010	120	nardware, bortware support								
			8	12	0	13				
	First Year — Spring Semester									
CTS	115	Info Sys Business Concepts	3	0	0	3				
CTS	220	Advanced Hard/Software Support	2	3	0	3				
NET	125	Introduction to Networks	1	4	0	3				
NOS	130	Windows Single User	2	2	0	3				
SEC	110	Security Concepts	$\overline{2}$	2	0	3				
~										
			10	11	0	15				
		First Year — Summer Semeste	er							
ENG	111	Writing and Inquiry	3	0	0	3				
MAT	143	Quantitative Literacy	2	2	0	3				
		Humanities/Fine Arts Elective*	3	0	0	3 3				
		Social/Behavioral Sciences Elective*	3	0	0	3				
			11	2	0	12				
		Second Year — Fall Semester	r							
DBA	120	Database Programming I	2	2	0	3				

NOS	120	Linux/UNIX Single User	2	2	0	3				
NOS	230	Windows Administration I	2	0	3					
SEC	160	Security Administration I	2	2	0	3				
			8	8	0	12				
		Second Veer Spring Semest	-	0	0	12				
Second Year — Spring Semester										
COM	231	Public Speaking	3	0	0	3				
or										
ENG	112	Writing/Research in the Disciplines	3	0	0	3				
CTS	289	System Support Project	1	4	0	3				
or										
WBL	111	Work-Based Learning I	0	0	10	1				
and		C C								
WBL	115	Work-Based Learning Seminar I	1	0	0	1				
WEB	140	Web Development Tools	2	2	0	3				
		IT Major Elective**	1-3	0-3	0	4				
			7-9	2-9	0-10	12-13				
		Total Credit Hours			64-65					

*Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives are listed on the page before the Course Descriptions.

**Approved IT Electives may be selected from courses listed above.

CYBER SECURITY (DIPLOMA) (D25590A) COURSE REQUIREMENTS

			0			
			Work/			
			Class	Lab ClinicalCredit		
ACA	122	College Transfer Success	0	2	0	1
COM	231	Public Speaking	3	0	0	3
or						
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
CTS	115	Info Sys Business Concepts	3	0	0	3
CTS	120	Hardware/Software Support	2	3	0	3
CTS	220	Advanced Hard/Software Support	2	3	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
NET	125	Introduction to Networks	1	4	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	130	Windows Single User	2	2	0	3
NOS	230	Windows Administration I	2	2	0	3

140	Web Development Tools	2	2	0	3
160	Security Administration I	2	2	0	3
110	Security Concepts	2	2	0	3
1	60	 Security Concepts Security Administration I Web Development Tools 	60Security Administration I2	60Security Administration I22	60Security Administration I220

SEMESTER SCHEDULE

CYBER SECURITY TECHNICIAN (CERTIFICATE) (C25590A1) Work/

					Work/	
			Class	Lab	Clinical	lCredit
		First Year — Fall Semester				
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
			6	7	0	9
		First Year — Spring Semester	-		Ũ	-
NET	125	Introduction to Networks	1	4	0	3
SEC	110	Security Concepts	2	2	0	3
			3	6	0	6
		First Year — Summer Semest	er			
SEC	160	Security Administration I	2	2	0	3
			2	2	0	3
		Total Credit Hours			18	

SEMESTER SCHEDULE SECURITY+ PREP (CERTIFICATE) (C25590A2)

			Class	Work/ Lab ClinicalCred		
			C1455	Lau	Cinica	Cicuit
		First Year — Fall Semester				
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
			6	7	0	9
		First Year — Spring Semester	r			
SEC	110	Security Concepts	2	2	0	3
			2	2	0	3
		Total Credit Hours			12	

Note: Security+ Prep (C25590A2) is a subset of the Cyber Security Technician (C25590A1) certificate. Students using financial aid should enroll in Cyber Security Technician (C25590A1).

CYBER SECURITY (ONLINE) (A25590A) COURSE REQUIREMENTS

Students must meet eligibility to take college-level coursework through placement tests or other measures. Please see the student handbook for further information.

						Work/	
				Class	Lab (Clinical	lCredit
А.	General I	Educa	tion Courses				
	1. Requi	red Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
	COM	231	Public Speaking	3	0	0	3
	or						
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
	MAT	143	Quantitative Literacy	2	2	0	3
			Humanities/Fine Arts Elective*	3	0	0	3
			Social/Behavioral Sciences Elective*	3	0	0	3
В.	Major Co	ourses	3				
	1. Core C	Course	es				
	To rec	eive a	degree, diploma or certificate from RCC,	a student	must he	ave a gr	ade of "C"
	or bet	ter in	all core courses for the program of study.				
	CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
	CTI	120	Network & Security Foundation	2	2	0	3
	CTS	115	Info Sys Business Concepts	3	0	0	3
	CTS	120	Hardware/Software Support	2	3	0	3
	NET	125	Introduction to Networks	1	4	0	3
	SEC	110	Security Concepts	2	2	0	3
	SEC	160	Security Administration I	2	2	0	3
	2. Other	Major	r Courses				
	CIS	115	Introduction to Programming Logic	2	3	0	3
	CTS	220	Advanced Hard/Software Support	2	3	0	3
	CTS	289	System Support Project	1	4	0	3
	or						
	WBL	111	Work-Based Learning I	0	0	10	1
	and						
	WBL	115	Work-Based Learning Seminar I	1	0	0	1
	DBA		Database Programming I	2	2	0	3
	NOS		Linux/UNIX Single User	2	2	0	3
	NOS		Windows Single User	2	2	0	3
	NOS	230	Windows Administration I	2	2	0	3
	WEB	140	Web Development Tools	2	2	0	3
			IT Major Elective**	1-3	0-3	0	4
C.	Other Re						
	ACA	122	College Transfer Success	0	2	0	1
			Total Credit Hours			64-65	

*Approved Humanities/Fine Arts electives offered online:

ART 111, ENG 231, ENG 262, MUS 110, PHI 240, REL 211, REL 212

*Approved Social/Behavioral Sciences electives offered online:

ANT 220, HIS 131, HIS 132, HIS 236, POL 120, PSY 150, PSY 241, SOC 210, SOC 213

**Approved IT electives offered online may be selected from courses listed below. Cyber Security students must choose a total of 4 credit hours from this list. Only 3 SCH of SPA are allowed towards the Information Technology degree:

ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law I	3	0	0	3
BUS	125	Personal Finance	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
BUS	139	Entrepreneurship I	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
BUS	260	Business Communications	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
CSC	151	Java Programming	2	3	0	3
CSC	153	C# Programming	2	3	0	3
CTS	130	Spreadsheet	2	2	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
HBI	110	Issues and Trends in HBI	3	0	0	3
HMT	110	Intro to Healthcare Management	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	221	Consumer Behavior	3	0	0	3
OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	110	Intro to Project Management	3	0	0	3
PMT	210	Project Management Issues	2	2	0	3
PMT	215	Project Management Leadership	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3

SEMESTER SCHEDULE CYBER SECURITY (ONLINE) (A25590A)

			Work/				
			Class	Lab ClinicalCree		Credit	
		First Year — Fall Semester					
ACA	122	College Transfer Success	0	2	0	1	
CIS	115	Introduction to Programming and Logic	2	3	0	3	
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3	
CTI	120	Network & Security Foundation	2	2	0	3	
CTS	120	Hardware/Software Support	2	3	0	3	

			8	12	0	13				
		First Year — Spring Semester								
CTS	115	Info Sys Business Concepts	3	0	0	3				
CTS	220	Advanced Hard/Software Support	2	3	0	3				
NET	125	Introduction to Networks	1	4	0	3				
NOS	130	Windows Single User	2	2	0	3 3				
SEC	110	Security Concepts	2	2	0	3				
			10	<u> </u>	0	15				
		First Year — Summer Semeste		11	0	15				
ENG	111	Writing and Inquiry	3	0	0	3				
MAT	143	Quantitative Literacy	2	2	0	3				
		Humanities/Fine Arts Elective*	3	0	0	3				
		Social/Behavioral Sciences Elective*	3	0	0	3				
			11	2	0	12				
Second Year — Fall Semester										
DBA	120	Database Programming I	2	2	0	3				
NOS	120	Linux/UNIX Single User	2	2	0	3				
NOS	230	Windows Administration I	2	2	0	3 3				
SEC	160	Security Administration I	2	2	0	3				
			8	8	0	12				
		Second Year — Spring Semeste		0	0	12				
COM	231	Public Speaking	3	0	0	3				
or			-	-		-				
ENG	112	Writing/Research in the Disciplines	3	0	0	3				
CTS	289	System Support Project	1	4	0	3				
or										
WBL	111	Work-Based Learning I	0	0	10	1				
and										
WBL	115	Work-Based Learning Seminar I	1	0	0	1				
WEB	140	Web Development Tools	2	2	0	3				
		IT Major Elective**	1-3	0-3	0	4				
			 7-9	2-9	0-10	12-13				
					<i></i> -					
		Total Credit Hours			64-65					

*Approved Humanities/Fine Arts electives offered online:

ART 111, ENG 231, ENG 262, MUS 110, PHI 240, REL 211, REL 212

*Approved Social/Behavioral Sciences electives offered online:

ANT 220, HIS 131, HIS 132, HIS 236, POL 120, PSY 150, PSY 241, SOC 210, SOC 213

**Approved IT Electives may be selected from courses listed above.

SEMESTER SCHEDULE

					Work/	
			Class	Lab	Clinical	Credit
		First Year — Fall Semester				
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3 3
				—	—	
			6	7	0	9
		First Year — Spring Semeste	er			
NET	125	Introduction to Networks	1	4	0	3
SEC	110	Security Concepts	2	2	0	3
			3	6	0	6
a	1.60	First Year — Summer Semest		•	0	•
SEC	160	Security Administration I	2	2	0	3
			2	2	0	3
			Z	Z	0	3
		Total Credit Hours			18	

CYBER SECURITY TECHNICIAN (CERTIFICATE) (ONLINE) (C25590A1)

SEMESTER SCHEDULE SECURITY+ PREP (CERTIFICATE) (ONLINE) (C25590A2)

			Work/			
		Class	Lab	Clinical	Credit	
	First Year — Fall Semester					
110	Web, Pgm, & DB Foundation	2	2	0	3	
120	Network & Security Foundation	2	2	0	3	
120	Hardware/Software Support	2	3	0	3	
		6	7	0	9	
	First Year — Spring Semeste	r				
110	Security Concepts	2	2	0	3	
		2	2	0	3	
	Total Credit Hours			12		
	120 120	 110 Web, Pgm, & DB Foundation 120 Network & Security Foundation 120 Hardware/Software Support First Year — Spring Semester 110 Security Concepts 	First Year — Fall Semester110Web, Pgm, & DB Foundation2120Network & Security Foundation2120Hardware/Software Support26First Year — Spring Semester110Security Concepts222	First Year — Fall Semester110Web, Pgm, & DB Foundation22120Network & Security Foundation22120Hardware/Software Support23First Year — Spring Semester110Security Concepts22222222	ClassLabClinicalFirst Year — Fall Semester 110 Web, Pgm, & DB Foundation 2 2 0 120Network & Security Foundation 2 2 0 120Hardware/Software Support 2 3 0 $110Security Concepts220220$	

Note: Security+ Prep (C25590A2) is a subset of the Cyber Security Technician (C25590A1) certificate. Students using financial aid should enroll in Cyber Security Technician (C25590A1).

The courses listed on this program guide are the courses currently offered online through Richmond Community College. Please speak to your advisor if you have taken courses at another college or university.

The following courses are part of the North Carolina Articulation Agreement: ACC 120, ART 111, BUS 110, BUS 115, BUS 137, CIS 110, CIS 115, COM 231, CSC 151, ECO 251, ECO 252, ENG 111, ENG 112, ENG 231, ENG 232, MAT 143, MUS 110, PHI 240, and SPA 111. The North Carolina Comprehensive Articulation Agreement is a statewide agreement governing transfer credits from North Carolina community colleges to North Carolina public universities and participating private universities. RichmondCC cannot guarantee the transfer of courses to out-of-state universities.

INFORMATION TECHNOLOGY SUPPORT (A25590B) COURSE REQUIREMENTS

							Work/	
					Class	Lab	Clinical	lCredit
А.	Ge	eneral I	Educa	tion Courses				
	1.	Requi	red Co	ourses				
		ENG	111	Writing and Inquiry	3	0	0	3
		COM	231	Public Speaking	3	0	0	3
		or						
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
		MAT	143	Quantitative Literacy	2	2	0	3
				Humanities/Fine Arts Elective*	3	0	0	3
				Social/Behavioral Sciences Elective*	3	0	0	3
В.	M	ajor Co	ourses					
	1.	Core C	Course	S				
		To rec	eive a	degree, diploma or certificate from RCC, a	a student	must h	ave a gr	ade of "C"
		or beta	ter in c	all core courses for the program of study.				
		CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
		CTI	120	Network & Security Foundation	2	2	0	3
		CTS	115	Info Sys Business Concepts	3	0	0	3
		CTS	120	Hardware/Software Support	2	3	0	3
		CTS	155	Tech Support Functions	2	2	0	3
		CTS	220	Advanced Hard/Software Support	2	3	0	3
		SEC	110	Security Concepts	2	2	0	3
	2.	Other	Major	Courses				
		CIS	110	Introduction to Computers	2	2	0	3
		CTS	289	System Support Project	1	4	0	3
		or						
		WBL	111	Work-Based Learning I	0	0	10	1
		and						
		WBL	115	Work-Based Learning Seminar I	1	0	0	1
		DBA	110	Database Concepts	2	3	0	3
		NET	125	Introduction to Networks	1	4	0	3
		NOS	120	Linux/UNIX Single User	2	2	0	3
		NOS	130	Windows Single User	2	2	0	3
		NOS	230	Windows Administration I	2	2	0	3
		PMT	110	Intro to Project Management	3	0	0	3
				IT Major Elective**	Varies	Varies	0	4
C.	Ot	her Re	quired	l Courses				
		ACA	122	College Transfer Success	0	2	0	1
				Total Credit Hours			64-65	

*Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives are listed on the page before the Course Descriptions.

**Approved IT Electives may be selected from courses listed below. IT Support students must choose a total of 4 credit hours from this list. Only 3 SCH of SPA are allowed towards the Information Technology degree:

mom	anon 1	cennology degree.				
	115	College Accounting	3	2	0	4
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law I	3	0	0	3
BUS	125	Personal Finance	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
BUS	139	Entrepreneurship I	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
BUS	260	Business Communications	3	0	0	3
CHI	111	Elementary Chinese I	3	0	0	3
CIS	115	Introduction to Programming and Logic	2	3	0	3
CSC	151	Java Programming	2	3	0	3
CSC	153	C# Programming	2	3	0	3
CTS	130	Spreadsheet	2	2	0	3
DBA	120	Database Programming I	2	2	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
HBI	110	Issues and Trends in HBI	3	0	0	3
HMT	110	Intro to Healthcare Management	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	221	Consumer Behavior	3	0	0	3
MKT	223	Customer Service	3	0	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	210	Project Management Issues	2	2	0	3
PMT	215	Project Management Leadership	3	0	0	3
SEC	160	Security Administration I	2	2	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
WEB	140	Web Development Tools	2	2	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3

SEMESTER SCHEDULE INFORMATION TECHNOLOGY SUPPORT (A25590B)

				Work/		
			Class	Lab	Lab ClinicalCredit	
		First Year — Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
CIS	110	Introduction to Computers	2	2	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3

CTS	120	Hardware/Software Support	2	3	0	3
			8	11	0	13
		First Year — Spring Semester			Ū	10
CTS	115	Info Sys Business Concepts	3	0	0	3
CTS	220	Advanced Hard/Software Support	2	3	0	
NET	125	Introduction to Networks	1	4	0	3
NOS	130	Windows Single User	2	2	0	3 3 3 3
SEC	110	Security Concepts	2	2	0	3
			10	11	0	15
		First Year — Summer Semeste	r			
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Humanities/Fine Arts Elective*	3	0	0	3 3 3
		Social/Behavioral Sciences Elective*	3	0	0	3
			11	2	0	12
		Second Year — Fall Semester				
CTS	155	Tech Support Functions	2	2	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	230	Windows Administration I	2	2	0	3 3
PMT	110	Intro to Project Management	3	0	0	3
			9	6	0	12
GO 14	221	Second Year — Spring Semeste		0	0	2
COM	231	Public Speaking	3	0	0	3
or	110		2	0	0	2
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTS	289	System Support Project	1	4	0	3
or WBL	111	Work-Based Learning I	0	0	10	1
and	111	work-based Learning I	0	0	10	1
WBL	115	Work-Based Learning Seminar I	1	0	0	1
DBA	110	Database Concepts	2	3	0	3
אנע	110	IT Major Elective**	1-3	0-3	0	4
		II muju Licenve		<u> </u>	<u> </u>	- T
			7-9	3-10	0-10	12-13
		Total Credit Hours			61 65	

Total Credit Hours

64-65

*Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives are listed on the page before the Course Descriptions. **Approved IT Electives may be selected from courses listed above.

			0					
					Work/			
			Class	Lab	Clinical	Credit		
ACA	122	College Transfer Success	0	2	0	1		
CIS	110	Introduction to Computers	2	2	0	3		
COM	231	Public Speaking	3	0	0	3		
or								
ENG	112	Writing/Research in the Disciplines	3	0	0	3		
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3		
CTI	120	Network & Security Foundation	2	2	0	3		
CTS	115	Info Sys Business Concepts	3	0	0	3		
CTS	120	Hardware/Software Support	2	3	0	3		
CTS	155	Tech Support Functions	2	2	0	3		
CTS	220	Advanced Hard/Software Support	2	3	0	3		
ENG	111	Writing and Inquiry	3	0	0	3		
MAT	143	Quantitative Literacy	2	2	0	3		
NET	125	Introduction to Networks	1	4	0	3		
NOS	120	Linux/UNIX Single User	2	2	0	3		
NOS	130	Windows Single User	2	2	0	3		
NOS	230	Windows Administration I	2	2	0	3		
SEC	110	Security Concepts	2	2	0	3		
		Total Credit Hours			46			

IT SUPPORT (DIPLOMA) (D25590B) COURSE REQUIREMENTS

SEMESTER SCHEDULE

IT – ENTRY LEVEL COMPUTER TECHNICIAN (CERTIFICATE) (C25590B1) Work/

			Class	Lab	Clinica	lCredit
		First Year — Fall Semeste	er			
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
			6	7	0	9
		First Year — Spring Semes	ter			
CTS	220	Advanced Hard/Software Support	2	3	0	3
NET	125	Introduction to Networks	1	4	0	3
NOS	130	Windows Single User	2	2	0	3
				—		
			5	9	0	9
		Total Credit Hours			18	

		× / ×		Work/		
			Class	Lab	Clinical	Credit
		First Year — Fall Semester				
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
			4	5	0	6
		First Year — Spring Semeste	r			
CTS	220	Advanced Hard/Software Support	2	3	0	3
NOS	130	Windows Single User	2	2	0	3
			4	5	0	6
		Total Credit Hours			12	

SEMESTER SCHEDULE IT – A+ PREP (CERTIFICATE) (C25590B2)

Note: A+ Prep (C25590B2) is a subset of the Entry Level Computer Technician (C25590B1) certificate. Students using financial aid should enroll in Entry Level Computer Technician (C25590B1).

SOFTWARE AND WEB DEVELOPMENT (A25590C) COURSE REQUIREMENTS

				Class	Lab	Work/ Clinica	Credit
A.	General H	Educa	tion Courses				
	1. Requir	red Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
	COM	231	Public Speaking	3	0	0	3
	or						
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
	MAT	143	Quantitative Literacy	2	2	0	3
			Humanities/Fine Arts Elective*	3	0	0	3
			Social/Behavioral Sciences Elective*	3	0	0	3
В.	Major Co	ourses					
	1. Core C	Course	es				
	To rec	eive a	degree, diploma or certificate from RCC, a	a student	must he	ave a gr	ade of "C"
	or bett	ter in d	all core courses for the program of study.				
	CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
	CTI	120	Network & Security Foundation	2	2	0	3
	CSC	151	Java Programming	2	3	0	3
	CSC	153	C# Programming	2	3	0	3
	CTS	115	Info Sys Business Concepts	3	0	0	3
	CTS	120	Hardware/Software Support	2	3	0	3
	DBA	120	Database Programming I	2	2	0	3
	2. Other	Major	Courses				
	CIS	115	Introduction to Programming Logic	2	2	0	3
	CTS	289	System Support Project	1	4	0	3
	or						
	WBL	111	Work-Based Learning I	0	0	10	1
	and						
	WBL	115	Work-Based Learning Seminar I	1	0	0	1
	NET	125	Introduction to Networks	1	4	0	3
	NOS	120	Linux/UNIX Single User	2	2	0	3
	SEC	110	Security Concepts	2	2	0	3
	WEB	140	Web Development Tools	2	2	0	3
	WEB	141	Mobile Interface Design	2	2	0	3
	WEB	250	Database Driven Websites	2	2	0	3
			IT Major Elective**	1-3	0-3	0	4
C.	Other Re	quire	-				
	ACA	-	College Transfer Success	0	2	0	1
			Total Credit Hours			64-65	

*Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives are listed on the page before the Course Descriptions.

allowed towards the Information Technology degree:							
		115	College Accounting	3	2	0	4
	ACC	120	Principles of Financial Accounting	3	$\frac{1}{2}$	0 0	4
	BUS	110	Introduction to Business	3	$\frac{2}{0}$	0	3
	BUS	115	Business Law I	3	0	0	3
	BUS	125	Personal Finance	3	0	0	3
	BUS	137	Principles of Management	3	0	0	3
	BUS	139	Entrepreneurship I	3	0	0	3
	BUS	230	Small Business Management	3	0	0	3
	BUS	260	Business Communications	3	0	0	3
	CHI	111	Elementary Chinese I	3	0	0	3
	CIS	110	Introduction to Computers	2	2	0	3
	CIS	111	Basic PC Literacy	1	$\frac{2}{2}$	0	2
	CTS	130	Spreadsheet	2	$\frac{2}{2}$	0	3
	CTS	155	Tech Support Functions	$\frac{2}{2}$	$\frac{2}{2}$	0	3
	DBA	110	Database Concepts	$\frac{2}{2}$	$\frac{2}{3}$	0	3
	ECO	251	Principles of Microeconomics	3	0	0	3
	ECO	252	Principles of Macroeconomics	3	0	0	3
	HBI	110	Issues and Trends in HBI	3	0	0	3
	HMT	110	Intro to Healthcare Management	3	0	0	3
	MKT	120	Principles of Marketing	3	0	0	3
	MKT	221	Consumer Behavior	3	0	0	3
	MKT	223	Customer Service	3	0	0	3
	NOS	223	Windows Administration I	2	2	0	3
	OST	136	Word Processing	$\frac{2}{2}$	$\frac{2}{2}$	0	3
	OST	130	Office Software Applications	$\frac{2}{2}$	$\frac{2}{2}$	0	3
	PMT	137		23	$\overset{2}{0}$	0	3
	PMT		Intro to Project Management	5 2	0	0	3 3
		210	Project Management Londorphin	23	$\frac{2}{0}$	0	3 3
	PMT	215	Project Management Leadership	5 2			
	SEC	160	Security Administration I	2 3	2	0	3
	SPA	111	Elementary Spanish I	3 3	0	0	3 3
	SPA	120	Spanish for the Workplace	3	0	0	3

**Approved IT Electives may be selected from courses listed below. Software and Web Development students must choose a total of 4 credit hours from this list. Only 3 SCH of SPA are allowed towards the Information Technology degree:

SEMESTER SCHEDULE SOFTWARE AND WEB DEVELOPMENT (A25590C)

			Class	Work/ Lab ClinicalCredit		
		First Year — Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
CIS	115	Introduction to Programming Logic	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3

CTS	120	Hardware/Software Support	2	3	0	3
			8	12	0	13
		First Year — Spring Semester				
CSC	153	C# Programming	2	3	0	3
CTS	115	Info Sys Business Concepts	3	0	0	3 3
NET	125	Introduction to Networks	1	4	0	3
WEB	140	Web Development Tools	2	2	0	3
			8	9	0	12
		First Year — Summer Semester	r			
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Humanities/Fine Arts Elective*	3	0	0	
		Social/Behavioral Sciences Elective*	3	0	0	3 3
			11	2	0	12
		Second Year — Fall Semester				
COM or	231	Public Speaking	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CSC	151	Java Programming	2	3	0	3
DBA	120	Database Programming I	2	2	0	3
NOS	120	Linux/UNIX Single User	2	2	0	
WEB	141	Mobile Interface Design	2	2	0	3 3
			<u> </u>	9	0	15
		Second Year — Spring Semeste		-	-	
CTS or	289	System Support Project	1	4	0	3
WBL and	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Learning Seminar I	1	0	0	1
SEC	110	Security Concepts	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3
		IT Major Elective**	1-3	0-3	0	4
			<u> </u>	4-11	0-10	12-13

Total Credit Hours

64-65

*Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives are listed on the page before the Course Descriptions.

**Approved IT Electives may be selected from courses listed above.

				Work/			
			Class	Lab	Clinical	Credit	
ACA	122	College Transfer Success	0	2	0	1	
CIS	115	Introduction to Programming Logic	2	3	0	3	
COM	231	Public Speaking	3	0	0	3	
or							
ENG	112	Writing/Research in the Disciplines	3	0	0	3	
CSC	151	Java Programming	2	3	0	3	
CSC	153	C# Programming	2	3	0	3	
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3	
CTI	120	Network & Security Foundation	2	2	0	3	
CTS	115	Info Sys Business Concepts	3	0	0	3	
CTS	120	Hardware/Software Support	2	3	0	3	
DBA	120	Database Programming I	2	2	0	3	
ENG	111	Writing and Inquiry	3	0	0	3	
MAT	143	Quantitative Literacy	2	2	0	3	
NOS	120	Linux/UNIX Single User	2	2	0	3	
WEB	140	Web Development Tools	2	2	0	3	
WEB	141	Mobile Interface Design	2	2	0	3	
WEB	250	Database Driven Websites	2	2	0	3	
		Total Credit Hours			46		

SOFTWARE AND WEB DEVELOPMENT (DIPLOMA) (D25590C) COURSE REQUIREMENTS

SEMESTER SCHEDULE WEB DEVELOPMENT SPECIALIST (CERTIFICATE) (C25590C1) Work/

					Work/	
			Class	Lab (Clinica	Credit
		First Year — Fall Semester				
CIS	115	Introduction to Programming Logic	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
			4	5	0	6
		First Year — Spring Semeste	r			
WEB	140	Web Development Tools	2	2	0	3
			2	2	0	3
		Second Year — Fall Semester	r			
DBA	120	Database Programming I	2	2	0	3
WEB	141	Mobile Interface Design	2	2	0	3
			4	4	0	6
		Cocond Voor Coming Comost				

WEB	250	Database Driven Websites	2	2	0	3
			2	2	0	3
		Total Credit Hours			18	

SEMESTER SCHEDULE

	COMPUTER PROGRAMMING SPECIALIST (CERTIFICATE) (C25590C2)									
					Work/					
			Class	Lab (Clinical	Credit				
		First Year — Fall Semester								
CIS	115	Introduction to Programming Logic	2	3	0	3				
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3				
CTI	120	Network & Security Foundation	2	2	0	3				
		-								
			6	7	0	9				
		First Year — Spring Semester	r							
CSC	153	C# Programming	2	3	0	3				
WEB	140	Web Development Tools	2	2	0	3				
			4	5	0	6				
		Second Year — Fall Semester	•							
CSC	151	Java Programming	2	3	0	3				
				_						
			2	3	0	3				
		Total Credit Hours			18					

SEMESTER SCHEDULE MOBILE APPLICATIONS DEVELOPMENT SPECIALIST (CERTIFICATE) (C25590C3)

					Work/	
			Class	Lab	Clinical	lCredit
		First Year — Fall Semester				
CIS	115	Introduction to Programming Logic	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
			6	7	0	9
		First Year — Spring Semeste	r			
WEB	140	Web Development Tools	2	2	0	3
			2	2	0	3

	Second Year — Fall Semester							
CSC	151	Java Programming	2	3	0	3		
WEB	141	Mobile Interface Design	2	2	0	3		
			4	5	0	6		
		Total Credit Hours			18			

SOFTWARE AND WEB DEVELOPMENT (ONLINE) (A25590C) COURSE REQUIREMENTS

Students must meet eligibility to take college-level coursework through placement tests or other measures. Please see the student handbook for further information.

						Work/		
				Class	Lab	Clinical	Credit	
А.	Genera	al Educa	ation Courses					
	1. Rec	juired C	ourses					
		G 111		3	0	0	3	
	CO	M 231	Public Speaking	3	0	0	3	
	01	r						
	EN	G 112	Writing/Research in the Disciplines	3	0	0	3	
	MA	T 143	Quantitative Literacy	2	2	0	3	
			Humanities/Fine Arts Elective*	3	0	0	3	
			Social/Behavioral Sciences Elective*	3	0	0	3	
B.	Major	Course	s					
	1. Con	e Cours	es					
	To	receive	a degree, diploma or certificate from RCC,	a student	must h	ave a gr	ade of "C	,,, ,
	or l	better in	all core courses for the program of study.			_	-	
	CT	I 110	Web, Pgm, & DB Foundation	2	2	0	3	
	CT	I 120	Network & Security Foundation	2	2	0	3	
	CS	C 151	Java Programming	2	3	0	3	
	CS	C 153	C# Programming	2	3	0	3	
	CT	S 115	Info Sys Business Concepts	3	0	0	3	
	CT	S 120	Hardware/Software Support	2	3	0	3	
	DB	A 120	Database Programming I	2	2	0	3	
	2. Oth	er Majo	or Courses					
	CIS	115	Introduction to Programming Logic	2	2	0	3	
	CT	S 289	System Support Project	1	4	0	3	
	01	r						
	WE	BL 111	Work-Based Learning I	0	0	10	1	
	ai	nd						
	WE	BL 115	Work-Based Learning Seminar I	1	0	0	1	
	NE	T 125	Introduction to Networks	1	4	0	3	
	NO	S 120	Linux/UNIX Single User	2	2 2	0	3	
	SE	C 110	v 1	2		0	3	
	WE	EB 140	Web Development Tools	2	2	0	3	
	WE	EB 141	Mobile Interface Design	2	2	0	3	
	WE	EB 250	Database Driven Websites	2	2	0	3	
			IT Major Elective**	Varies	Varies	0	4	
C.	Other	Require	ed Courses					
	AC	A 122	College Transfer Success	0	2	0	1	
			Total Credit Hours			64-65		

*Approved Humanities/Fine Arts electives offered online:

ART 111, ENG 231, ENG 262, MUS 110, PHI 240, REL 211, REL 212

*Approved Social/Behavioral Sciences electives offered online:

ANT 220, HIS 131, HIS 132, HIS 236, POL 120, PSY 150, PSY 241, SOC 210, SOC 213

**Approved IT Major Electives offered online may be selected from courses listed below. Software and Web Development students must choose a total of 4 credit hours from this list. *Note: Only 3 SCH of SPA are allowed towards the Information Technology degree:*

noie.	Omy 5	SCH of SI A dre dilowed lowards the Information I	echnoli	lgy ueg	ree.	
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law I	3	0	0	3
BUS	125	Personal Finance	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
BUS	139	Entrepreneurship I	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
BUS	260	Business Communications	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
CTS	130	Spreadsheet	2	2	0	3
DBA	110	Database Concepts	2	3	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
HBI	110	Issues and Trends in HBI	3	0	0	3
HMT	110	Intro to Healthcare Management	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	221	Consumer Behavior	3	0	0	3
NOS	230	Windows Administration I	2	2	0	3
OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	110	Intro to Project Management	3	0	0	3
PMT	210	Project Management Issues	2	2	0	3
PMT	215	Project Management Leadership	3	0	0	3
SEC	160	Security Administration I	2	2	0	3
SPA	111	Elementary Spanish I	3	0	0	3

SEMESTER SCHEDULE SOFTWARE AND WEB DEVELOPMENT (ONLINE) (A25590C)

			Work/					
			Class	Lab	Clinical	Credit		
		First Year — Fall Semester						
ACA	122	College Transfer Success	0	2	0	1		
CIS	115	Introduction to Programming Logic	2	3	0	3		
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3		
CTI	120	Network & Security Foundation	2	2	0	3		
CTS	120	Hardware/Software Support	2	3	0	3		

			8	12	0	13
		First Year — Spring Semester	•			
CSC	153	C# Programming	2	3	0	3
CTS	115	Info Sys Business Concepts	3	0	0	3 3 3
NET	125	Introduction to Networks	1	4	0	3
WEB	140	Web Development Tools	2	2	0	3
			8	9	0	12
		First Year — Summer Semeste	er			
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3 3
			<u> </u>	2	0	12
		Second Year — Fall Semester		-	Ū	12
COM or	231	Public Speaking	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CSC	151	Java Programming	2	3	0	3
DBA	120	Database Programming I	2	2	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
WEB	141	Mobile Interface Design	2	2	0	3
			11	9	0	15
		Second Year — Spring Semeste	er			
CTS or	289	System Support Project	1	4	0	3
WBL and	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Learning Seminar I	1	0	0	1
SEC	110	Security Concepts	2	2	0	3
WEB		Database Driven Websites	2	2	0	3
		IT Major Elective**	1-3	0-3	0	4
			 6-8	4-11	0-10	12-13
		Total Credit Hours			64-65	

*Approved Humanities/Fine Arts electives offered online: ART 111, ENG 231, ENG 262, MUS 110, PHI 240, REL 211, REL 212

*Approved Social/Behavioral Sciences electives offered online: ANT 220, HIS 131, HIS 132, HIS 236, POL 120, PSY 150, PSY 241, SOC 210, SOC 213 **Approved IT Major Electives offered online: ACC 120, BUS 110, BUS 115, BUS 125, BUS 137, BUS 139, BUS 230, BUS 260, CIS 110, CSC 151, CSC 153, CTS 130, ECO 251, ECO 252, HBI 110, HMT 110, MKT 120, MKT 221, OST 136, OST 137, PMT 110, PMT 210, PMT 215, SPA 111, WEB 250.

SOFTWARE AND WEB DEVELOPMENT (DIPLOMA) (ONLINE) (D25590C) COURSE REQUIREMENTS

				Work/				
			Class	Lab	Lab ClinicalCredit			
ACA	122	College Transfer Success	0	2	0	1		
CIS	115	Introduction to Programming Logic	2	3	0	3		
COM	231	Public Speaking	3	0	0	3		
or								
ENG	112	Writing/Research in the Disciplines	3	0	0	3		
CSC	151	Java Programming	2	3	0	3		
CSC	153	C# Programming	2	3	0	3		
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3		
CTI	120	Network & Security Foundation	2	2	0	3		
CTS	115	Info Sys Business Concepts	3	0	0	3		
CTS	120	Hardware/Software Support	2	3	0	3		
DBA	120	Database Programming I	2	2	0	3		
ENG	111	Writing and Inquiry	3	0	0	3		
MAT	143	Quantitative Literacy	2	2	0	3		
NOS	120	Linux/UNIX Single User	2	2	0	3		
WEB	140	Web Development Tools	2	2	0	3		
WEB	141	Mobile Interface Design	2	2	0	3		
WEB	250	Database Driven Websites	2	2	0	3		
		Total Cuadit House			16			

Total Credit Hours

46

SEMESTER SCHEDULE

V	WEB DEVELOPMENT SPECIALIST (CERTIFICATE) (ONLINE) (C25590C1)										
				Work/							
			Class	Lab ClinicalCredit							
		First Year — Fall Semester									
CIS	115	Introduction to Programming Logic	2	3	0	3					
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3					
			4	5	0	6					
		First Year — Spring Semester	r								
WEB	140	Web Development Tools	2	2	0	3					

			2	2	0	3
		Second Year — Fall Semester				
DBA	120	Database Programming I	2	2	0	3
WEB	141	Mobile Interface Design	2	2	0	3
			4	4	0	6
		Second Year — Spring Semeste	r			
WEB	250	Database Driven Websites	2	2	0	3
						—
			2	2	0	3
		Total Credit Hours			18	

SEMESTER SCHEDULE

COMPUTER PROGRAMMING SPECIALIST (CERTIFICATE) (ONLINE) (C25590C2) Work/

			Class	Lab	Lab ClinicalCred	
		First Year — Fall Semester				
CIS	115	Introduction to Programming Logic	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
			6	7	0	9
		First Year — Spring Semester	•			
CSC	153	C# Programming	2	3	0	3
WEB	140	Web Development Tools	2	2	0	3
			4	5	0	6
		Second Year — Fall Semester	•			
CSC	151	Java Programming	2	3	0	3
			2	3	0	3
		Total Credit Hours			18	

SEMESTER SCHEDULE MOBILE APPLICATIONS DEVELOPMENT SPECIALIST (CERTIFICATE) (ONLINE) (C25590C3)

Work/ Class Lab ClinicalCredit

First Year — Fall Semester

CIS	115	Introduction to Programming Logic	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
			6	7	0	9
		First Year — Spring Semester				
WEB	140	Web Development Tools	2	2	0	3
			2	2	0	3
		Second Year — Fall Semester				
CSC	151	Java Programming	2	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
			4	5	0	6
			4	5	U	U
		Total Credit Hours			18	

The courses listed on this program guide are the courses currently offered online through Richmond Community College. Please speak to your advisor if you have taken courses at another college or university.

The following courses are part of the North Carolina Articulation Agreement: ACC 120, ART 111, BUS 110, BUS 115, BUS 137, CIS 110, CIS 115, COM 231, CSC 151, ECO 251, ECO 252, ENG 111, ENG 112, ENG 231, ENG 232, MAT 143, MUS 110, PHI 240, and SPA 111. The North Carolina Comprehensive Articulation Agreement is a statewide agreement governing transfer credits from North Carolina community colleges to North Carolina public universities and participating private universities. RichmondCC cannot guarantee the transfer of courses to out-of-state universities.

					VV UFK/	
			Class	Lab	Clinical	Credit
		First Year — Fall Semester				
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
			4	5	0	6
		First Year — Spring Semester	r			
NET	125	Introduction to Networks	1	4	0	3
NOS	130	Windows Single User	2	2	0	3
SEC	110	Security Concepts	2	2	0	3 3
			5	9	0	9
		Second Year — Fall Semester	•			
NOS	230	Windows Administration I	2	2	0	3
			2	2	0	3
		Total Credit Hours			18	

SEMESTER SCHEDULE NETWORK MANAGEMENT (CERTIFICATE) (C25590D1) Work/

SEMESTER SCHEDULE NETWORK+ PREP (CERTIFICATE) (C25590D2)

			Work/				
			Class	Lab	Clinical	Credit	
		First Year — Fall Semester					
CTI	120	Network & Security Foundation	2	2	0	3	
CTS	120	Hardware/Software Support	2	3	0	3	
			6	7	0	6	
		First Year — Spring Semeste	r				
NET	125	Introduction to Networks	1	4	0	3	
NOS	130	Windows Single User	2	2	0	3	
			3	6	0	6	
		Total Credit Hours			12		

Note: Network+ Prep (C25590D2) is a subset of the Network Management (C25590D1) certificate. Students using financial aid should enroll in Network Management (C25590D1).

IT – INFORMATION TECHNOLOGY SUPPORT - HEALTHCARE (A25590E) COURSE REQUIREMENTS

					Class	Work/ Lab ClinicalCredit			
А.	Ge	eneral I	Educa	tion Courses					
	1.	Requi	red Co	Durses					
		ENG	111	Writing and Inquiry	3	0	0	3	
		COM	231	Public Speaking	3	0	0	3	
		or							
		ENG	112	Writing/Research in the Disciplines	3	0	0	3	
		MAT	143	Quantitative Literacy	2	2	0	3	
				Humanities/Fine Arts Elective*	3	0	0	3	
				Social/Behavioral Sciences Elective*	3	0	0	3	
B.	M	ajor Co	ourses						
	1.	Core C	Course	es					
		To rec	eive a	degree, diploma or certificate from RCC, a	a student	must h	have a gr	ade of "C"	
		or beta	ter in d	all core courses for the program of study.					
		CTI	110	Web, Pgm, & DB Foundation	2	2	0	3	
		CTI	120	Network & Sec Foundation	2	2	0	3	
		CTS	115	Info Sys Business Concepts	3	0	0	3	
		CTS	120	Hardware/Software Support	2	3	0	3	
		DBA	120	Database Programming I	2	2	0	3	
		HBI	110	Issues and Trends in HBI	3	0	0	3	
	2.	Other	Major	Courses					
		CTS	155	Tech Support Functions	2	2	0		
		CTS	220	Adv Hard/Software Support	2	3	0	3	
		CTS	289	System Support Project	1	4	0	3	
		or							
		WBL	111	Work-Based Learning I	0	0	10	1	
		and		_					
		WBL	115	Work-Based Learning Seminar I	1	0	0	1	
		HMT	110	Intro to Healthcare Mgt	3	0	0	3	
		NET	125	Introduction to Networks	1	4	0	3 3	
		NOS	120	Linux/UNIX Single User	2	2	0	3	
		NOS	130	Windows Single User	2	2	0	3	
		NOS	230	Windows Administration I	2	2	0	3	
		PMT	110	Intro to Project Mgmt	3	0	0	3	
		SEC	110	Security Concepts	2	2	0	3	
				IT Major Elective**	2-3	0-3	0	4	
C.	Ot	her Re	quire	d Courses					
		ACA	122	College Transfer Success	0	2	0	1	
			n.	atal Cradit Hauna				(0	
			1	otal Credit Hours			67-0	UO	

*Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives are listed on the page before the Course Descriptions.

**Approved IT Major Electives may be selected from courses listed below. IT Support students must choose a total of 4 credit hours from this list. Only 3 SCH of SPA are allowed towards the Information Technology degree:

ACC	115	College Accounting	3	2	0	4
ACC	113	College Accounting Principles of Financial Accounting	3 3	$\frac{2}{2}$	0	4 4
BUS	120	Introduction to Business	3		0	4
		Business Law I	3 3			3 3
BUS	115		3	0	0	3 3
BUS	125	Personal Finance		0	0	
BUS	137	Principles of Management	3	0	0	3
BUS	139	Entrepreneurship I	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
BUS	260	Business Communications	3	0	0	3
CHI	111	Elementary Chinese I	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
CIS	111	Basic PC Literacy	1	2	0	2
CSC	151	Java Programming	2	3	0	3
CSC	151	Java Programming	2	3	0	3
CSC	153	C# Programming	2	3	0	3
CTS	130	Spreadsheet	2	2	0	3
DBA	110	Database Concepts	2	3	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
ELC	112	DC/AC Electricity	3	6	0	5
HMT	210	Medical Insurance	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	221	Consumer Behavior	3	0	0	3
MKT	223	Customer Service	3	0	0	3
OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	210	Project Management Issues	2	2	0	3
PMT	215	Project Management Leadership	3	0	0	3
SEC	160	Security Administration I	2	2	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
WEB	140	Web Development Tools	2	2	0	3
WEB	141	Mobile Interface Design	$\frac{2}{2}$	$\frac{2}{2}$	0	3
WEB	250	Database Driven Websites	$\frac{2}{2}$	2	0	3
	250		4		0	5

SEMESTER SCHEDULE IT – INFORMATION TECHNOLOGY SUPPORT - HEALTHCARE (A25590E) Work/

					Work/	
			Class	Lab	Clinical	lCredit
		First Year — Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Sec Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
PMT	110	Intro to Project Mgmt	3	0	0	3
		5 6		_		
			9	9	0	13
		First Year — Spring Semeste	er			
CTS	115	Info Sys Business Concepts	3	0	0	3
CTS	220	Adv Hard/Software Support	2	3	0	3
HMT	110	Intro to Healthcare Mgt	3	0	0	3
NET	125	Introduction to Networks	1	4	0	3
NOS	130	Windows Single User	2	2	0	3
		C				
			11	9	0	15
		First Year — Summer Semest	ter			
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			11	2	0	12
		Second Year — Fall Semeste	r			
CTS	155	Tech Support Functions	2	2	0	3
DBA	120	Database Programming I	2	2	0	3
HBI	110	Issues and Trends in HBI	3	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	230	Windows Administration	2	2	0	3
			11	8	0	15
		Second Year — Spring Semes			_	_
COM	231	Public Speaking	3	0	0	3
or	110			0	0	2
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTS	289	System Support Project	1	4	0	3
or	111		0	0	10	
WBL	111	Work-Based Learning I	0	0	10	1
and	117	West Devel Learning C is L	1	0	0	1
WBL	115	Work-Based Learning Seminar I	1	0	0	1
SEC	110	Security Concepts	$\frac{2}{2}$	$\frac{2}{2}$	0	3
		IT Major Elective**	2-3	0-3	0	4

	8-9	 2-9	0-10 12-13		
Total Credit Hours			67-68		

*Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives are listed on the page before the Course Descriptions.

**Approved IT Major Electives may be selected from courses listed above.

IT – INFORMATION TECHNOLOGY SUPPORT - HEALTHCARE (DIPLOMA) (D25590E) COURSE REQUIREMENTS

			Class	Work/ Lab ClinicalCredit		
ACA	122	College Transfer Success	0	2	0	1
COM		Public Speaking	3	$ \frac{2}{0} $	0	3
or	231	I done Speaking	5	0	U	5
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Sec Foundation	2	2	0	3
CTS	115	Info Sys Business Concepts	3	0	0	3
CTS	120	Hardware/Software Support	2	3	0	3
CTS	155	Tech Support Functions	2	2	0	3
CTS	220	Adv Hard/Software Support	2	3	0	3
DBA	120	Database Programming I	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
HBI	110	Issues and Trends in HBI	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
NET	125	Introduction to Networks	1	4	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	130	Windows Single User	2	2	0	3
SEC	110	Security Concepts	2	2	0	3

Total Credit Hours

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