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	Clinica	lCredit	
A.	Ge	neral H	Educa	tion Courses					
	1.	Requir	ed 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.	Ma	ajor Co	urses						
	1.	Core C	Course	es					
		To rec	eive a	degree, diploma or certificate from RCC,	a student	must k	nave a gr	ade of "C"	
		or bett	er 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	
		CTS	115	Info Sys Business Concepts	3	0	0	3	

CTS	120	Hardware/Software Support	2	3	0	3
SEC	110	Security Concepts	2	2	0	3
SEC	160	Security Administration I	2	2	0	3
2. Othe	er Majo	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						
WB	L 111	Work-Based Learning I	0	0	10	1
an	d	_				
WB	L 115	Work-Based Learning Seminar I	1	0	0	1
DBA	A 120	Database Programming I	2	2	0	3
NET	125	Introduction to Networks	1	4	0	3
NOS	5 120	Linux/UNIX Single User	2	2	0	3
NOS	5 130	Windows Single User	2	2	0	3
NOS	5 230	Windows Administration I	2	2	0	3
WE	B 140	Web Development Tools	2	3	0	3
		IT Major Elective**	1-3	0-3	0	4
C. Other F	Require	d Courses				
ACA	A 122	College Transfer Success	0	2	0	1
		Tatal Credit Harris			() (5	

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. 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			
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			
CSC	251	Advanced JAVA 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
HMT	210	Medical Insurance	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	223	Customer Experience	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	3	0	3

SEMESTER SCHEDULE CYBER SECURITY (A25590A)

			Class	Work/ Lab ClinicalCredit						
		First Year — Fall Semester	Class	Lab	Chinca	Cituit				
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 3				
		11								
			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	11	0	15				
		First Year — Summer Semeste								
ENG	111	Writing and Inquiry	3	0	0	3				
MAT	143	Quantitative Literacy	2	2	0	3 3				
		Humanities/Fine Arts Elective*	3	0	0					
		Social/Behavioral Sciences Elective*	3	0	0	3				
			11	2	0	12				
DBA	120	Second Year — Fall Semester 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						
SEC	160	Security Administration I	2	2	0	3						
			8	8	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												
WBL	115	Work-Based Learning Seminar I	1	0	0	1						
WEB	140	Web Development Tools	2	3	0	3						
		IT Major Elective**	1-3	0-3	0	4						
			—									
			7-9	3-10	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

				Work/				
			Class	Lab (Clinica	Credit		
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		
SEC	110	Security Concepts	2	2	0	3		

		Total Credit Hours			46	
WEB	140	Web Development Tools	2	3	0	3
SEC	160	Security Administration I	2	2	0	3

CYBER SECURITY TECHNICIAN (CERTIFICATE) (C25590A1) COURSE REQUIREMENTS

					Work/	
			Class	Lab ClinicalCred		
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
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
			12	15	0	18
		Total Credit Hours			18	

SECURITY+ PREP (CERTIFICATE) (C25590A2) COURSE REQUIREMENTS

				Work/				
			Class	Lab	lCredit			
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		
SEC	110	Security Concepts	2	2	0 3			
			8	9	0	12		
		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 (A25590A) (ONLINE) 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		lCredit
A.	Ge	eneral l	Educa	tion Courses				
	1.	Requi	red Co	Durses				
		-		Writing and Inquiry	3	0	0	3
				Public Speaking	3	0	0	3
		or						
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
		MAT		Quantitative Literacy	2	2	0	3
				Humanities/Fine Arts Elective*	3	0	0	3
				Social/Behavioral Sciences Elective*	3	0	0	3
B.	Μ	ajor Co	ourses	6				
		Core (
		To rec	ceive 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.			C	U U
		CTI		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
		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		Advanced Hard/Software Support	2	3	0	3 3 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	120	Database Programming I	2	2	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
		WEB	140	Web Development Tools	2	3	0	3
				IT Major Elective**	1-3	0-3	0	4
C.	Ot	ther Re	quire	d Courses				
		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, 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:

	a contai					
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
CSC	251	Advanced JAVA 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
HMT	210	Medical Insurance	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
MKT	120	Principles of Marketing	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	3	0	3

SEMESTER SCHEDULE CYBER SECURITY (A25590A) (ONLINE)

				Work/			
			Class	Lab ClinicalCred			
		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 3 3 3
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
			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				
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
SEC	160	Security Administration I	2	2	0	3 3 3
		-				
			8	8	0	12
COM	221	Second Year — Spring Semeste		0	0	2
COM or	231	Public Speaking	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
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
WEB	140	Web Development Tools	2	3	0	3
		IT Major Elective**	1-3	0-3	0	4
			 7-9	3-10	0-10	12-13
		Total Credit Hours			64-65	

*Approved Humanities/Fine Arts electives offered online: ART 111, ENG 231, 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.

CYBER SECURITY (DIPLOMA) (D25590A) (ONLINE) COURSE REQUIREMENTS

		-		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	
SEC	110	Security Concepts	2	2	0	3	
SEC	160	Security Administration I	2	2	0	3	
WEB	140	Web Development Tools	2	3	0	3	
		-					

Total Credit Hours

46

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

			Work/				
			Class	Lab	Credit		
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	
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	
			_				
			11	15	0	18	

Total Credit Hours

			Work/			
			Class	Lab ClinicalCred		
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
SEC	110	Security Concepts	2	2	0	3
					—	
			8	9	0	12
		Total Credit Hours			12	

SECURITY+ PREP (CERTIFICATE) (C25590A2) (ONLINE) COURSE REQUIREMENTS

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 (Clinica	lCredit
A. (General I	Educat	ion Courses				
]	l. Requi	red Cou	irses				
	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. I	Major Co	ourses					
1	l. Core (Courses	\$				
	To rec	eive a d	degree, diploma or certificate from RCC, d	a student	must ha	ive a gr	ade of "C"
	or bet	ter in a	ll 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
	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
	SEC	110	Security Concepts	2	2	0	3
			IT Major Elective**	Varies	Varies	0	4
C. (-	Courses				
	ACA	122	College Transfer Success	0	2	0	1
			Total Credit Harry			(1 (5	

Total Credit Hours

64-65

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

ACC 115 ACC 120	College Accounting Principles of Financial Accounting	3 3	2	0	4
ACC 120		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 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
CSC 251	Advanced JAVA 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
HMT 210	Medical Insurance	3	0	0	3
MED 121	Medical Terminology I	3	0	0	3
MKT 120	Principles of Marketing	3	0	0	3
MKT 223	Customer Experience	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
WEB 140	Web Development Tools	2	3	0	3
WEB 141	Mobile Interface Design	2	2	0	3
WEB 250	Database Driven Websites	2	3	0	3

**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:

SEMESTER SCHEDULE INFORMATION TECHNOLOGY SUPPORT (A25590B) Work/

				Lab	Work/ Clinical	Credit
		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	•			
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 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
101711	145	Humanities/Fine Arts Elective*	$\frac{2}{3}$		0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
		Social Denavioral Sciences Licenve				
			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
PMT	110	Intro to Project Management	3	0	0	3
						10
			9	6	0	12
COM	221	Second Year — Spring Semeste		0	0	2
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	ů 0	3
or	_0)		-	-	Ũ	C
WBL	111	Work-Based Learning I	0	0	10	1
and		6				
WBL	115	Work-Based Learning Seminar I	1	0	0	1
DBA	110	Database Concepts	2	3	0	3
		IT Major Elective**	1-3	0-3	0	4
			 7-9	3-10	0-10	12-13
			1-7	5-10	0-10	12-13
		Total Credit Hours			64-65	

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.

IT SUPPORT (DIPLOMA) (D25590B) COURSE REQUIREMENTS

COURSE REQUIREMENTS								
			Work/					
			Class	Lab ClinicalCr		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 – ENTRY LEVEL COMPUTER TECHNICIAN (CERTIFICATE) (C25590B1) COURSE REQUIREMENTS

			Work/				
			Class	Lab (lCredit		
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	
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	
			11	16	0	18	
		Total Credit Hours			18		

IT – A+ PREP (CERTIFICATE) (C25590B2) COURSE REQUIREMENTS

				Work/		
			Class	Lab ClinicalCre		
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
CTS	220	Advanced Hard/Software Support	2	3	0	3
NOS	130	Windows Single User	2	2	0	3
						—
			8	10	0	12
		Total Credit Hours			12	

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).

INFORMATION TECHNOLOGY SUPPORT (A25590B) (ONLINE) COURSE REQUIREMENTS

				COURSE REQUIREMEN	110		XX7 1 /	
					Class	Lak	Work/	Cuadit.
	C	m anal T	7 day o o fi	Courses	Class	Lad	Clinical	Crean
А.				on Courses				
	1.	Requi			2	0	0	2
		ENG	111	Writing and Inquiry	3	0	0	3
		COM	231	Public Speaking	3	0	0	3
		or ENC	110	Whiting / Descent in the Dissiplines	2	0	0	2
		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
ъ		• •		Social/Behavioral Sciences Elective*	3	0	0	3
в.		ajor Co						
	Ι.	Core (. 1		1 6400
				legree, diploma or certificate from RCC, o	a student	must h	ave a gro	ade of "C"
				<i>ll core courses for the program of study.</i>	2	•	0	2
		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
	2.			Courses	•	•	0	2
		CIS	110	Introduction to Computers	2	2	0	3
		CTS	289	System Support Project	1	4	0	3
		or			0	0	10	
		WBL	111	Work-Based Learning I	0	0	10	1
		and				0	0	
		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
		SEC	110	Security Concepts	2	2	0	3
				IT Major Elective**	Varies	Varies	s 0	4
C.	Ot		-	Courses				
		ACA	122	College Transfer Success	0	2	0	1
				Total Cuadit Hanne			() (5	

Total Credit Hours

64-65

*Approved Humanities/Fine Arts electives offered online: ART 111, ENG 231, 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 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		comology 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
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
CSC	251	Advanced JAVA 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		0	3	
HBI	110	Issues and Trends in HBI 3 0 0		0	3	
HMT	110	Intro to Healthcare Management 3 0 0		3		
HMT	210	Medical Insurance	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	223	Customer Experience	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
WEB	140	Web Development Tools	2	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	3	0	3

SEMESTER SCHEDULE INFORMATION TECHNOLOGY SUPPORT (A25590B) (ONLINE) Work/

			Class	Lab (Clinical	Credit
		First Year — Fall Semester				
ACA	122	College Transfer Success	0	2	0	1

CIS CTI CTI	110 110 120	Introduction to Computers Web, Pgm, & DB Foundation Network & Security Foundation	2 2 2	2 2 2	0 0 0	3 3 3
CTS	120	Hardware/Software Support	2	3	0	3
			8	11	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 3 3
NOS	130	Windows Single User	2	2	0	3
SEC	110	Security Concepts	2	2	0	3
			10	11	0	15
		First Year — Summer Semeste				
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3 3 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				
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 3	2	0	3 3 3
PMT	110	Intro to Project Management	3	0	0	3
			9	6	0	12
		Second Year — Spring Semeste	er			
COM or	231	Public Speaking	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTS	289	System Support Project	1	4	0	3
or	-07		-	·	Ũ	U
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
		IT Major Elective**	1-3	0-3	0	4
			 7-9	3-10	0-10	12-13
		Total Credit Hours			64-65	

*Approved Humanities/Fine Arts electives offered online: ART 111, ENG 231, 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.

IT SUPPORT (DIPLOMA) (D25590B) (ONLINE) COURSE REQUIREMENTS

	COURSE REQUIREMENTED	110					
				Work/			
		Class	Lab	Clinical	lCredit		
122	College Transfer Success	0	2	0	1		
110	Introduction to Computers	2	2	0	3		
231	Public Speaking	3	0	0	3		
112	Writing/Research in the Disciplines	3	0	0	3		
110	Web, Pgm, & DB Foundation	2	2	0	3		
120	Network & Security Foundation	2	2	0	3		
115	Info Sys Business Concepts	3	0	0	3		
120	Hardware/Software Support	2	3	0	3		
155	Tech Support Functions	2	2	0	3		
220	Advanced Hard/Software Support	2	3	0	3		
111	Writing and Inquiry	3	0	0	3		
143	Quantitative Literacy	2	2	0	3		
125	Introduction to Networks	1	4	0	3		
120	Linux/UNIX Single User	2	2	0	3		
130	Windows Single User	2	2	0	3		
230	Windows Administration I	2	2	0	3		
110	Security Concepts	2	2	0	3		
	110 231 112 110 120 115 120 155 220 111 143 125 120 130 230	 122 College Transfer Success 110 Introduction to Computers 231 Public Speaking 112 Writing/Research in the Disciplines 110 Web, Pgm, & DB Foundation 120 Network & Security Foundation 115 Info Sys Business Concepts 120 Hardware/Software Support 155 Tech Support Functions 220 Advanced Hard/Software Support 111 Writing and Inquiry 143 Quantitative Literacy 125 Introduction to Networks 120 Linux/UNIX Single User 130 Windows Single User 230 Windows Administration I 	Class122College Transfer Success0110Introduction to Computers2231Public Speaking3112Writing/Research in the Disciplines3110Web, Pgm, & DB Foundation2120Network & Security Foundation2115Info Sys Business Concepts3120Hardware/Software Support2155Tech Support Functions2220Advanced Hard/Software Support2111Writing and Inquiry3143Quantitative Literacy2125Introduction to Networks1120Linux/UNIX Single User2130Windows Single User2230Windows Administration I2	ClassLab122College Transfer Success02110Introduction to Computers22231Public Speaking30112Writing/Research in the Disciplines30110Web, Pgm, & DB Foundation22120Network & Security Foundation221215Info Sys Business Concepts30120Hardware/Software Support23155Tech Support Functions22220Advanced Hard/Software Support23111Writing and Inquiry30143Quantitative Literacy22125Introduction to Networks14120Linux/UNIX Single User22130Windows Single User22230Windows Administration I22	Work/ ClassLabWork/ Clinical122College Transfer Success020110Introduction to Computers220231Public Speaking300112Writing/Research in the Disciplines300110Web, Pgm, & DB Foundation220120Network & Security Foundation220115Info Sys Business Concepts300120Hardware/Software Support230155Tech Support Functions220220Advanced Hard/Software Support230111Writing and Inquiry300123Introduction to Networks140124Linux/UNIX Single User220130Windows Single User220230Windows Administration I220		

Total Credit Hours

46

IT – ENTRY LEVEL COMPUTER TECHNICIAN (CERTIFICATE) (C25590B1) (ONLINE) COURSE REQUIREMENTS

					Work/	
			Class	Lab	Clinical	lCredit
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
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
			11	16	0	18
		Total Credit Hours			18	

IT – A+ PREP (CERTIFICATE) (C25590B2) (ONLINE) COURSE REQUIREMENTS

		eeenal mayerial				
			Work/			
			Class	Lab	Clinical	lCredit
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
CTS	220	Advanced Hard/Software Support	2	3	0	3
NOS	130	Windows Single User	2	2	0	3
			8	10	0	12
		Total Credit Hours			12	

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/ Clinical	lCredit
А.	General I	Educat	ion Courses				
	1. Requir	red Co	urses				
	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 3
			Social/Behavioral Sciences Elective*	3	0	0	3
В.	Major Co	ourses					
	1. Core C	Courses	3				
	To rec	eive a	degree, diploma or certificate from RCC, a	a student	must k	iave a gr	ade of "C"
		ter in a	ll core courses for the program of study.				
		151	JAVA Programming	2	3	0	3
	CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
	CTI		Network & Security Foundation	2	2	0	3
	CTS	115	Info Sys Business Concepts	3	0	0	3 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
	CSC	251	Advanced JAVA Programming	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
	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	3	0	3
	WEB	141	Mobile Interface Design	2	2	0	3
	WEB	250	Database Driven Websites	2	3	0	3
			IT Major Elective**	2-3	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 and Social/Behavioral Sciences Electives are listed on the page before the Course Descriptions.

allowed towards the Information Technology 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 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 2	0	0	3 3
CIS	110	Introduction to Computers	2	2	0	3
CSC	153	C# Programming	2	3	0	3
CTS	130	Spreadsheet	2	2	0	3 3 3
CTS	155	Tech Support Functions	2	2	0	3
DBA	110	Database Concepts	2	3	0	
ECO	251	Principles of Microeconomics	3	0	0	3 3
ECO	252	Principles of Macroeconomics	3	0	0	
HBI	110	Issues and Trends in HBI 3 0 0		0	3	
HMT	110	Intro to Healthcare Management	3	0	0	3
HMT	210	Medical Insurance	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	223	Customer Experience	3	0	0	3
NOS	130	Windows Single User	2	2	0	3
NOS	230	Windows Administration I	2	2	0	3
OST	136	Word Processing	2	2	0	3 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

**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)

					Work/		
			Class	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	151	JAVA Programming	2	3	0	3
CTS	115	Info Sys Business Concepts	3	0	0	3
NET	125	Introduction to Networks	1	4	0	3 3 3
WEB	140	Web Development Tools	2	3	0	3
			8	10	0	12
		Einst Veen Summer Semeste		10	0	12
ENC	111	First Year — Summer Semeste		0	0	2
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy Humanities/Fine Arts Elective*	2 3	2 0	0	3 3 3
		Social/Behavioral Sciences Elective*	3	0	0 0	3
		Social/Benavioral Sciences Elective	3	0	0	<u> </u>
			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	251	Advanced JAVA Programming	2	3	0	
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 3 3 3
			— 11	9	0	15
		Second Year — Spring Semeste		-	0	10
CTS	289	System Support Project	1	4	0	3
or WBL	111	Work-Based Learning I	0	0	10	1
and	111	from Dused Dearning I	Ū	Ŭ	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	3	0	3
		IT Major Elective**	2-3	0-3	0	4
			7-8	5-12	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.

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

		COURSE REQUIREM				
					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	251	Advanced JAVA 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	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	3	0	3
		Total Credit Hours			46	

WEB DEVELOPMENT SPECIALIST (CERTIFICATE) (C25590C1) COURSE REQUIREMENTS

		COURSE REQUIREM				
					Work/	
			Class	Lab	Clinica	lCredit
CIS	115	Introduction to Programming Logic	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
DBA	120	Database Programming I	2	2	0	3
WEB	140	Web Development Tools	2	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	3	0	3
				—		—
			12	15	0	18
		Total Credit Hours			18	

COMPUTER PROGRAMMING SPECIALIST (CERTIFICATE) (C25590C2) COURSE REQUIREMENTS

Work/ Class Lab ClinicalCredit

CIS115CSC151CSC251CTI110CTI120WEB140	Introduction to Programming Logic JAVA Programming Advanced JAVA Programming Web, Pgm, & DB Foundation Network & Security Foundation Web Development Tools	$\begin{array}{c}2\\2\\2\\2\\2\\2\\2\\-\\1\end{array}$	$\begin{array}{c}3\\3\\2\\2\\3\\\hline\end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ \end{array}$	3 3 3 3 3 $-$ 18
	Total Credit Hours	12	16	0 18	18

MOBILE APPLICATIONS DEVELOPMENT SPECIALIST (CERTIFICATE) (C25590C3) COURSE REQUIREMENTS

					Work/	
			Class	Lab	Clinical	lCredit
CIS	115	Introduction to Programming Logic	2	3	0	3
CSC	151	JAVA Programming	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
WEB	140	Web Development Tools	2	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
			12	15	0	18
		Total Credit Hours			18	

SOFTWARE AND WEB DEVELOPMENT (A25590C) (ONLINE) 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 (Clinica	lCredit	
А.	Ge	eneral H	Educati	on Courses					
	1.	Requi	red Cou	irses					
		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.	Μ	ajor Co	ourses						
	1.	Core C	Courses						
		To rec	eive a d	legree, diploma or certificate from RCC, a	a student	must he	ive a gr	ade of "C	2"
		or bett	ter in al	l 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	
		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	
		CSC	251	Advanced JAVA Programming	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	
		NET	125	Introduction to Networks	1	4	0	3	
		NOS	120	Linux/UNIX Single User	2	2	0	3 3	
		SEC	110	Security Concepts	2	2	0	3	
		WEB	140	Web Development Tools	2	3	0	3	
		WEB	141	Mobile Interface Design	2	2	0	3	
		WEB	250	Database Driven Websites	2	3	0	3	
				IT Major Elective**	Varies	Varies	0	4	
С.	Ot	her Re	quired	Courses					
		ACA		College Transfer Success	0	2	0	1	
							<i></i> -		
				Total Credit Hours			64-65		

*Approved Humanities/Fine Arts electives offered online: ART 111, ENG 231, 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:*

ivole.	Unity 5	SCIT Of STA are allowed lowards the Information.	rechno	uogy ue	gree.	
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	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
HBI	110	Issues and Trends in HBI	3	0	0	3
HMT	110	Intro to Healthcare Management	3	0	0	3
HMT	210	Medical Insurance	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
NOS	130	Windows Single User	2	2	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 (A25590C) (ONLINE) 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 3
CTS	120	Hardware/Software Support	2	3	0	3
			8	12	0	13
		First Year — Spring Semester	•			
CSC	151	JAVA 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	3	0	3
			8	10	0	12
		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				
COM or	231	Public Speaking	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CSC	251	Advanced JAVA Programming	2	3	0	
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 3 3 3
			<u> </u>	9	0	15
		Second Year — Spring Semeste		,	Ũ	10
CTS	289	System Support Project	1	4	0	3
or						
WBL	111	Work-Based Learning I	0	0	10	1
and WBL	115	Work Dogod L coming Sominon L	1	0	0	1
SEC	115	Work-Based Learning Seminar I	1 2	0 2	$\begin{array}{c} 0\\ 0\end{array}$	1
WEB	250	Security Concepts Database Driven Websites	2	2	0	3 3
WED	230	IT Major Elective**	1-3	0-3	0	4
		II Major Elective	<u> </u>	<u> </u>	0	
			6-8	5-12	0-10	12-13
		Total Credit Hours			64-65	

*Approved Humanities/Fine Arts electives offered online: ART 111, ENG 231, 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 may be selected from courses listed above.

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

		_			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	251	Advanced JAVA 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	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	3	0	3

Total Credit Hours

46

WEB DEVELOPMENT SPECIALIST (CERTIFICATE) (C25590C1) (ONLINE) COURSE REQUIREMENTS

					Work/	
			Class	Lab	lCredit	
CIS	115	Introduction to Programming Logic	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
DBA	120	Database Programming I	2	2	0	3
WEB	140	Web Development Tools	2	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	3	0	3
			12	15	0	18
		Total Credit Hours			18	

COMPUTER PROGRAMMING SPECIALIST (CERTIFICATE) (C25590C2) (ONLINE) COURSE REQUIREMENTS

					Work/	
			Class	Lab	lCredit	
CIS	115	Introduction to Programming Logic	2	3	0	3
CSC	151	JAVA Programming	2	3	0	3
CSC	251	Advanced JAVA Programming	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
WEB	140	Web Development Tools	2	3	0	3
						—
			12	16	0	18
		Total Credit Hours			18	

MOBILE APPLICATIONS DEVELOPMENT SPECIALIST (CERTIFICATE) (C25590C3) (ONLINE) COURSE REQUIREMENTS

				Work/		
			Class	Lab	Clinical	lCredit
CIS	115	Introduction to Programming Logic	2	3	0	3
CSC	151	JAVA Programming	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
WEB	140	Web Development Tools	2	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
			12	15	0	18
		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.

NETWORK MANAGEMENT (CERTIFICATE) (C25590D1) COURSE REQUIREMENTS

		COURSE REQUIRED				
				Work/		
			Class	Lab	Clinical	lCredit
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
NET	125	Introduction to Networks	1	4	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
			11	15	0	18
		Total Credit Hours			18	

NETWORK+ PREP (CERTIFICATE) (C25590D2) COURSE REQUIREMENTS

		COURSE REQUIREM				
				Work/		
			Class	Lab	Clinical	lCredit
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
NET	125	Introduction to Networks	1	4	0	3
NOS	130	Windows Single User	2	2	0	3
			7	11	0	12
		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).

NETWORK MANAGEMENT (CERTIFICATE) (C25590D1) (ONLINE) COURSE REQUIREMENTS

					Work/	
			Class	Lab	Clinical	Credit
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
NET	125	Introduction to Networks	1	4	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
			11	15	0	18
		Total Credit Hours			18	

NETWORK+ PREP (CERTIFICATE) (C25590D2) (ONLINE) COURSE REQUIREMENTS

					Work/	
			Class	Lab	Clinical	Credit
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
NET	125	Introduction to Networks	1	4	0	3
NOS	130	Windows Single User	2	2	0	3
			7	11	0	12
		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

							Work/	1
					Class	Lab	Clinical	lCredit
А.				ion Courses				
		-	red Cou					
			111	Writing and Inquiry	3	0	0	3
	C	OM	231	Public Speaking	3	0	0	3
		or						
		NG	112	Writing/Research in the Disciplines	3	0	0	3
	Μ	AT	143	Quantitative Literacy	2	2	0	3
				Humanities/Fine Arts Elective*	3	0	0	3
				Social/Behavioral Sciences Elective*	3	0	0	3
В.	Majo							
			Courses					
				legree, diploma or certificate from RCC, c	i student	must h	ave a gr	ade of "C"
				ll core courses for the program of study.		-		
	C		110	Web, Pgm, & DB Foundation	2	2	0	3
		ΓI	120	Network & Sec Foundation	2	2	0	3
			115	Info Sys Business Concepts	3	0	0	3
		ΓS	120	Hardware/Software Support	2	3	0	3
		BA	120	Database Programming I	2	2	0	3
		BI	110	Issues and Trends in HBI	3	0	0	3
	2. Ot	ther	Major (Courses				
	C	ΓS	155	Tech Support Functions	2	2	0	3
	C	ΓS	220	Adv Hard/Software Support	2	3	0	3
	C	ГS	289	System Support Project	1	4	0	3
		or						
	W	ΒL	111	Work-Based Learning I	0	0	10	1
	:	and						
	W	ΒL	115	Work-Based Learning Seminar I	1	0	0	1
	H	MT	110	Intro to Healthcare Mgt	3	0	0	3
	N	EΤ	125	Introduction to Networks	1	4	0	3
	N	OS	120	Linux/UNIX Single User	2	2	0	3
	N	OS	130	Windows Single User	2	2	0	3
	N	OS	230	Windows Administration I	2	2	0	3
	PN	МT	110	Intro to Project Mgmt	3	0	0	3
	SE	EC	110	Security Concepts	2	2	0	3
				IT Major Elective**	2-3	0-3	0	4
C.	Other	r Re	quired	Courses				
			122	College Transfer Success	0	2	0	1
			T					(0)
			10	tal Credit Hours			67-0	00

*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:

mom		connotegy 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
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming Logic	2	3	0	3
CSC	151	JAVA Programming	2	3	0	3
CSC	153	C# Programming	2	3	0	3
CSC	251	Advanced JAVA 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
MED	121	Medical Terminology I	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	223	Customer Experience	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
WEB	140	Web Development Tools	2	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	3	0	3

SEMESTER SCHEDULE

					Work/	
			Class	Lab	Clinica	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 8				
			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
				_		
			11	9	0	15
		First Year — Summer Semes		-	Ũ	
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	$\overset{\circ}{2}$	Õ	3
	1.0	Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	Ő	ů 0	3
			11	2	0	12
		Second Year — Fall Semeste		2	Ū	12
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	$\overline{0}$	ů 0	3
NOS	120	Linux/UNIX Single User	2	2	ů 0	3
NOS	230	Windows Administration	2	2	ů 0	3
1100	230					
			11	8	0	15
		Second Year — Spring Semes		Ũ	Ũ	10
COM	231	Public Speaking	3	0	0	3
or	201	r uone speaking	5	Ū	Ŭ	5
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTS	289	System Support Project	1	4	0	3
or	207	System Support Project	1	Т	0	5
WBL	111	Work-Based Learning I	0	0	10	1
and	111	Work Dabou Learning I	U	0	10	1
WBL	115	Work-Based Learning Seminar I	1	0	0	1
SEC	110	Security Concepts	2	2	0	3
SLC	110	IT Major Elective**	2-3	0-3	0	3 4
			2-5	0-0	U	т

IT – INFORMATION TECHNOLOGY SUPPORT - HEALTHCARE (A25590E)

8-9	2-9	0-10	12-13

Total Credit Hours

67-68

Work/

*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

					VV OFK/	
			Class	Lab	Clinical	Credit
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 & 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			46	

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

						Work/	,
				Class	Lab	Clinica	Credit
А.			tion Courses				
	1. Requ						
	ENG		Writing and Inquiry	3	0	0	3
	COM	[231	Public Speaking	3	0	0	3
	or			_	_	_	_
	ENG		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						
	1. Core						1 4// 7 11
	To receive a degree, diploma or certificate from RCC, a student must have a grade of "C"						
			all core courses for the program of study.			0	
	CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
	CTI		Network & Sec Foundation	2	2	0	3
		115	Info Sys Business Concepts	3	0	0	3
	CTS		Hardware/Software Support	2	3	0	3
	DBA		Database Programming I	2	2	0	3
	HBI	110	Issues and Trends in HBI	3	0	0	3
			Courses				
	CTS		Tech Support Functions	2	2	0	
	CTS		Adv Hard/Software Support	2	3	0	3
	CTS	289	System Support Project	1	4	0	3
	or						
	WBL		Work-Based Learning I	0	0	10	1
	and						
	WBL		Work-Based Learning Seminar I	1	0	0	1
	НМТ		Intro to Healthcare Mgt	3	0	0	3
	NET		Introduction to Networks	1	4	0	3
	NOS	120	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
	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.	Other R	equired					
	ACA	122	College Transfer Success	0	2	0	1
	Total Credit Hours 67-68						58

*Approved Humanities/Fine Arts electives offered online: ART 111, ENG 231, 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 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:

Inform	lation I	echnology 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
CIS	110	Introduction to Computers	2 2	2	0	3
CIS	115	Introduction to Programming Logic	2	3	0	3
CSC	151	JAVA Programming	2	3	0	3
CSC	153	C# Programming	2	3	0	3
CSC	251	Advanced JAVA Programming	2 2	3	0	3
CTS	130	Spreadsheet		2	0	3
DBA	110	Database Concepts	2	3	0	3
ECO	251	Principles of Microeconomics	3 3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
HMT	210	Medical Insurance	3	0	0	3
MED	121	Medical Terminology I	3 3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	223	Customer Experience	3	0	0	3
OST	136	Word Processing	2 2 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
WEB	140	Web Development Tools	2	3	0	3
WEB	141	Mobile Interface Design	2 2	2	0	3
WEB	250	Database Driven Websites	2	3	0	3

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

Work/ Class Lab ClinicalCredit

	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				
		9	9	0	13				
	First Year — Spring Semes		0	0	2				
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 3				
NET 125	Introduction to Networks	1	4	0	3				
NOS 130	Windows Single User	2	2	0	3				
		11	9	0	15				
First Year — Summer Semester									
ENG 111	Writing and Inquiry	3	0	0	3				
MAT 143	Quantitative Literacy	2	2	0					
	Humanities/Fine Arts Elective*	3		0	3 3				
	Social/Behavioral Sciences Elective*	3	0	0	3				
	Social/Denavioral Sciences Elective		0	0					
		11	2	0	12				
	Second Year — Fall Semes								
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 3				
NOS 120	Linux/UNIX Single User	2	2	0	3				
NOS 230	Windows Administration	2	2	0	3				
		 1 1			15				
	Second Year — Spring Seme	11 Stor	8	0	15				
COM 231	Public Speaking	3	0	0	3				
or	i done opeaking	5	U	U	5				
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				
SEC 110	Security Concepts	2	2	0	3				
	IT Major Elective**	2-3	0-3	0	4				
		8-9	2-9	0-10	12-13				
7	Fotal Credit Hours			67-	68				

*Approved Humanities/Fine Arts electives offered online: ART 111, ENG 231, 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 may be selected from courses listed above.

			~	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 & 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			46	

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

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.