#### 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/

					VV OFK/			
				Class	Lab	Clinical	<b>ICredit</b>	
A.	General I	Educa	ation Courses					
	1. Requir	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.	Major Co	urses	3					
	1. Core C	Course	es					
	To rec	eive a	degree, diploma or certificate from RCC,	a student	must l	iave a gr	ade of "	C"
	or beti	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	

	C	TS	120	Hardware/Software Support	2	3	0	3
	S	EC	110	Security Concepts	2	2	0	3
	S	EC	160	Security Administration I	2	2	0	3
	2. O	ther I	Major	Courses				
	C	IS	115	Introduction to Programming Logic	2	3	0	3
	C	TS	220	Advanced Hard/Software Support	2	3	0	3
	C	TS	289	System Support Project	1	4	0	3
		or						
	V	VBL	111	Work-Based Learning I	0	0	10	1
		and						
	W	VBL	115	Work-Based Learning Seminar I	1	0	0	1
	D	ΒA	120	Database Programming I	2	2	0	3
	N	ΙEΤ	125	Introduction to Networks	1	4	0	3
	N	IOS	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
	V	VEB	140	Web Development Tools	2	3	0	3
				IT Major Elective**	1-3	0-3	0	4
C.	Othe	r Rec	quire	d Courses				
	A	CA	122	College Transfer Success	0	2	0	1

#### **Total Credit Hours**

64-65

\*\*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:

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	<b>Business Communications</b>	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

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

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	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
<b>PMT</b>	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	3	0	3

#### SEMESTER SCHEDULE CYBER SECURITY (A25590A)

			· <b>-</b> /		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	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					
SEC	110	Security Concepts	2	2	0	3					
			10	11	0	15					
		First Year — Summer Semest									
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
SEC	160	Security Administration I	2	2	0	3
			8	8	0	12
		Second Year — Spring Semesto	er			
COM	231	Public Speaking	3	0	0	3
or						
<b>ENG</b>	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	115	Work Dood Looming Comingn I	1	0	0	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
			<del></del> 7-9	3-10	0-10	12-13

Total Credit Hours 64-65

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

				Work/			
			Class	Lab ClinicalCredi			
ACA	122	College Transfer Success	0	2	0	1	
COM	231	Public Speaking	3	0	0	3	
or							
<b>ENG</b>	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	
<b>ENG</b>	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	

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

<sup>\*\*</sup>Approved IT Electives may be selected from courses listed above.

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			16	

#### Total Credit Hours

46

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

				Work/			
			Class	Lab	Clinical	<b>Credit</b>	
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**

**Total Credit Hours** 

**18** 

12

#### **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	

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	Clinical	Credit	
A.	Ge	eneral H	Educa	tion Courses					
	1.	Requir	red Co	ourses					
				Writing and Inquiry	3	0	0	3	
				Public Speaking	3	0	0	3	
		or							
		<b>ENG</b>	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.	Ma	ajor Co	urses						
		Core C							
		To rec	eive a	degree, diploma or certificate from RCC,	a student	must h	ave a gr	ade of "(	~,,
				all core courses for the program of study.			C	v	
		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.	Other		Courses					
		CIS		Introduction to Programming Logic	2	3	0	3	
		CTS		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	120	Database Programming I	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	
		WEB	140	Web Development Tools	2	3	0	3	
				IT Major Elective**	1-3	0-3	0	4	
C.	Ot			d Courses					
		ACA	122	College Transfer Success	0	2	0	1	

**Total Credit Hours** 

64-65

\*\*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	<b>Business Communications</b>	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
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	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	3	0	3

#### SEMESTER SCHEDULE CYBER SECURITY (A25590A) (ONLINE)

					Work/		
			Class	Lab	Clinical	lCredit	
		First Year — Fall Semester					
ACA	122	College Transfer Success	0	2	0	1	
CIS	115	Introduction to Programming and Logic	2	3	0	3	

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

<sup>\*</sup>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.

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
		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
SEC	110	Security Concepts	2	2	0	3
			10	11	0	15
ENC	111	First Year — Summer Semeste		0	0	2
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
			<u> </u>	2	0	12
		Second Year — Fall Semester		2	O	12
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
220	100	Security ( Idinimistration )	_	_		_
			8	8	0	12
		Second Year — Spring Semeste	er			
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					10	
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
WED	140	IT Major Elective**	1-3	0-3	0	4
		11 Major Elective	1-3	U-3		<del>'+</del> 
			7-9	3-10	0-10	12-13
						-3

\*Approved Humanities/Fine Arts electives offered online:

**Total Credit Hours** 

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

64-65

<sup>\*</sup>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	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	
<b>ENG</b>	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	
		<b>Total Credit Hours</b>			46		

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

				VV 01 K/			
			Class	Lab	Clinical	calCredit	
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** 

**18** 

Work/

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

			Work/			
			Class	Lab ClinicalCredi		
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
		<b>Total Credit Hours</b>			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).

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.	Ge	eneral H	Educati	on Courses				
	1.	Requir	red Cou	rses				
		ENG	111	Writing and Inquiry	3	0	0	3
		COM	231	Public Speaking	3	0	0	3
		or						
		<b>ENG</b>	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	Courses					
		To rec	eive a a	legree, diploma or certificate from RCC, a	a student	must h	ave a gr	ade of "C"
		or bett	er 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
		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.	Ot	her Re	quired	Courses				
		ACA	122	College Transfer Success	0	2	0	1

#### **Total Credit Hours**

64-65

<sup>\*</sup>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:

		••••••••••••••••••••••••••••••••••••••				
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	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
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	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	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)

					Work/			
			Class	Lab ClinicalCred				
		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	
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
			<u> </u>	2	0	12
		Connd Voor Fall Comestor		2	U	12
CTS	155	Second Year — Fall Semester	2	2	0	2
NOS	120	Tech Support Functions Linux/UNIX Single User	2	2 2	0	3
		Windows Administration I	2	$\overset{2}{2}$		3
NOS	230		3		0	3
PMT	110	Intro to Project Management	3	0	0	3
			9	6	0	12
		Second Year — Spring Semeste	-	Ü	O	12
COM	231	Public Speaking	3	0	0	3
or	201	Tuone speaking	J	Ü	Ü	2
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTS	289	System Support Project	1	4	0	3
or		J II J				
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	
		Tomi Cicuit Hours			UT-UJ	

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

<sup>\*\*</sup>Approved IT Electives may be selected from courses listed above.

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

				Work/		
			Class	Lab ClinicalCredit		
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						
<b>ENG</b>	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
<b>ENG</b>	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
		<b>Total Credit Hours</b>			46	

#### IT – ENTRY LEVEL COMPUTER TECHNICIAN (CERTIFICATE) (C25590B1) 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
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	Clinica	${\bf Clinical Credit}$		
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		
		<b>Total Credit Hours</b>			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

				-			Work/	
					Class	Lab (	Clinical	Credit
A.	Ge	eneral H	Educati	on Courses				
	1.	Requir	red Cou	rses				
		ENG	111	Writing and Inquiry	3	0	0	3
		COM	231	Public Speaking	3	0	0	3
		or		-				
		<b>ENG</b>	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	urses					
	1.	Core C	Courses					
		To rec	eive a a	legree, diploma or certificate from RCC, a	a student	must ha	ave a gr	ade of "C"
		or bett	er 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
		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	
		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	Courses				
		ACA	122	College Transfer Success	0	2	0	1

#### **Total Credit Hours**

64-65

<sup>\*</sup>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 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	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
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	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
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	<u> </u>	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	er			
<b>ENG</b>	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
			<u> </u>	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
			9	<u> </u>	0	12
		Second Year — Spring Semeste	-	Ü	Ü	12
COM	231	Public Speaking	3	0	0	3
or		•				
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTS or	289	System Support Project	1	4	0	3
WBL	111	Work-Based Learning I	0	0	10	1
and		wom zasea zemmy	Ü	Ü	10	-
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	
		Total Cicuit Hours			04-03	

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

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

			. 1 - 2			
				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						
<b>ENG</b>	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
<b>ENG</b>	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
		m . 1 G . 11.77				

Total Credit Hours 46

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

				VV UI K/		
			Class	Lab	Lab ClinicalC	
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

Work/

<sup>\*</sup>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.

<sup>\*\*</sup>Approved IT Electives may be selected from courses listed above.

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

			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
		<b>Total Credit Hours</b>			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

							Work/		
					Class	Lab	Clinical	Credit	
A.	Ge	eneral I	Educati	ion Courses					
	1.	Requir	ed Cou	irses					
		ENG	111	Writing and Inquiry	3	0	0	3	
		COM	231	Public Speaking	3	0	0	3	
		or							
		<b>ENG</b>	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	urses						
		Core C							
		To rec	eive a d	degree, diploma or certificate from RCC, a	a student	must h	ave a gr	ade of "C	, ,,
		or bett	er 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	
		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	
	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	
		DBA	120	Database Programming I	2	2	0	3	
		NET	125	Introduction to Networks	1	4	0	3	
		NOS	120	Linux/UNIX Single User	2 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**	1-3	0-3	0	4	
C.	Ot	her Re	quired	Courses					
		ACA	122	College Transfer Success	0	2	0	1	

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

64-65

**Total Credit Hours** 

\*\*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:

anowe	a towar	ds the information reciniology 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	<b>Business Communications</b>	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
CTS	130	Spreadsheet	2	2	0	3
CTS	155	Tech Support Functions	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
MKT	221	Consumer Behavior	3	0	0	3
MKT	223	Customer Service	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
SPA	120	Spanish for the Workplace	3	0	0	3

#### SEMESTER SCHEDULE SOFTWARE AND WEB DEVELOPMENT (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 CTS	120 120	Network & Security Foundation Hardware/Software Support	2 2	2 3	$0 \\ 0$	3
CIS	120	Hardware/Software Support		<u> </u>	—	<u> </u>
			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
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				
<b>ENG</b>	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				
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
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
			<u> </u>	9	0	15
		Second Year — Spring Semeste				
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
WEB	250	Database Driven Websites	2	3	0	3
		IT Major Elective**	1-3	0-3	0	4
			_			
			6-8	5-12	0-10	12-13
		<b>Total Credit Hours</b>			64-65	

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

<sup>\*\*</sup>Approved IT Electives may be selected from courses listed above.

### SOFTWARE AND WEB DEVELOPMENT (DIPLOMA) (D25590C) 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						
<b>ENG</b>	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
<b>ENG</b>	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	

#### Total Credit Hours 46

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

				Work/		
			Class	Lab ClinicalCred		
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 ClinicalCredi		
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
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
		<b>Total Credit Hours</b>			18	

## MOBILE APPLICATIONS DEVELOPMENT SPECIALIST (CERTIFICATE) (C25590C3)

#### COURSE REQUIREMENTS

				Work/ ss Lab ClinicalCredit			
			Class				
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	<b>Credit</b>	
A.	Ge	eneral E	Educati	on Courses					
	1.	Requir	ed Cou	rses					
		<b>ENG</b>	111	Writing and Inquiry	3	0	0	3	
		COM	231	Public Speaking	3	0	0	3	
		or							
		<b>ENG</b>	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	Courses						
		To rec	eive a a	legree, diploma or certificate from RCC, a	a student	must ha	ive a gr	ade of "(	C"
		or bett	er 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	
		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	
	2.	Other	Major (						
		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	
		DBA	120	Database Programming I	2	2	0	3	
		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		
		WEB		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	
C.	Ot		-	Courses					
		ACA	122	College Transfer Success	0	2	0	1	

64-65

**Total Credit Hours** 

\*\*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 Technolog	ogy degree:
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wote:	Only 3	SCH of SPA are allowed towards the information .	1 ecnn	otogy ae	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	<b>Business Communications</b>	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
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	221	Consumer Behavior	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	Clinica	lCredit	
		First Year — Fall Semester					
ACA	122	College Transfer Success	0	2	0	1	
CIS	115	Introduction to Programming Logic	2	3	0	3	

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

<sup>\*</sup>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.

CTI CTI	110 120	Web, Pgm, & DB Foundation Network & Security Foundation	2 2	2 2	0 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
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				
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				
COM or	231	Public Speaking	3	0	0	3
<b>ENG</b>	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
			<u> </u>	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	250	Database Driven Websites	2	3	0	3
		IT Major Elective**	1-3	0-3	0	4
			6-8	5-12	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.

#### SOFTWARE AND WEB DEVELOPMENT (DIPLOMA) (D25590C) (ONLINE) **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							
<b>ENG</b>	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	
<b>ENG</b>	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	
		<b>Total Credit Hours</b>			46		

#### **Total Credit Hours**

#### WEB DEVELOPMENT SPECIALIST (CERTIFICATE) (C25590C1) (ONLINE) COURSE REQUIREMENTS Work/

				VV OFK/		
			Class	Lab	Clinical	Credit
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

<sup>\*</sup>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.

<sup>\*\*</sup>Approved IT Major Electives may be selected from courses listed above.

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

				Work/		
			Class	Lab ClinicalCredit		
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
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** 

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

18

			Work/			
			Class	Lab	Clinical	Credit
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

			Work/			
			Class	Lab ClinicalCred		
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
		<b>Total Credit Hours</b>			18	

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

			Work/			
			Class	Lab ClinicalCred		
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
		<b>Total Credit Hours</b>			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 ClinicalCredit		
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
			<u> </u>	15	0	18
		Total Credit Hours			18	

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

		_	Work			/	
			Class	Lab	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	
		<b>Total Credit Hours</b>			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		
A.				on Courses				
	1.	-	ed Cou					
		ENG		Writing and Inquiry	3	0	0	3
		com or	231	Public Speaking	3	0	0	3
		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	Courses					
		To rec	eive a d	'egree, diploma or certificate from RCC, a	student	must k	iave a gr	ade of "C"
		or bett	er in al	l 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	3
		CTS	220	Adv Hard/Software Support	2	3	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
		HMT	110	Intro to Healthcare Mgt	3	0	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 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	guired	Courses				
		ACA	_	College Transfer Success	0	2	0	1

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**Total Credit Hours** 

\*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	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
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
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	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 3	2	0	3
PMT	215	Project Management Leadership		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	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	3	0	3

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

				Work/			
			Class	Lab	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 Semester	ŗ.				
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	
			<u> </u>	9	0	15	
		First Year — Summer Semeste	er				
<b>ENG</b>	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	
			<u> </u>	2	0	12	
		Second Year — Fall Semester	•				
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	
			<u> </u>	8	0	15	
		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 WBL	111	Work-Based Learning I	0	0	10	1	
and	115	Work Pasad Lagraina Caminar I	1	Ω	0	1	
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

**Total Credit Hours** 

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

				Work/			
			Class	Lab	Clinical	Credit	
ACA	122	College Transfer Success	0	2	0	1	
COM	231	Public Speaking	3	0	0	3	
or							
<b>ENG</b>	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	
<b>ENG</b>	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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<sup>\*</sup>Approved Humanities/Fine Arts and Social/Behavioral Sciences Electives are listed on the page before the Course Descriptions.

<sup>\*\*</sup>Approved IT Major Electives may be selected from courses listed above.

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

					Class	Lab	Work/ Lab ClinicalCredit		
A.	Ge	eneral E	Educati	on Courses					
	1.	Requir							
		ENG	111	Writing and Inquiry	3	0	0	3	
		COM or	231	Public Speaking	3	0	0	3	
		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							
				legree, diploma or certificate from RCC, a	ı student	must l	nave a gr	ade of "C"	
		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 & 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 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	
		HMT	110	Intro to Healthcare Mgt	3	0	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	
		<b>PMT</b>	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	quired	Courses					
		ACA	-	College Transfer Success	0	2	0	1	

**Total Credit Hours** 

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\*\*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:

115	College Accounting	2	2	Λ	1
					4
					4
					3
					3
					3
					3
	<u></u>				3
230	Small Business Management		0	0	3
260	Business Communications		0	0	3
110	Introduction to Computers		2	0	3
115	Introduction to Programming Logic		3	0	3
151	JAVA Programming	2	3	0	3
153	C# Programming	2	3	0	3
130	Spreadsheet		2	0	3
110	Database Concepts		3	0	3
251	Principles of Microeconomics	3	0	0	3
252	Principles of Macroeconomics	3	0	0	3
210	Medical Insurance	3	0	0	3
121	Medical Terminology I	3	0	0	3
120	Principles of Marketing	3	0	0	3
221	Consumer Behavior	3	0	0	3
223	Customer Service	3	0	0	3
136	Word Processing	2	2	0	3
137	Office Software Applications	2	2	0	3
210	Project Management Issues	2	2	0	3
215	Project Management Leadership	3	0	0	3
160	Security Administration I	2	2	0	3
111	Elementary Spanish I	3	0	0	3
140		2	3	0	3
141	Mobile Interface Design	2		0	3
250	Database Driven Websites	2	3	0	3
	110 115 151 153 130 110 251 252 210 121 120 221 223 136 137 210 215 160 111 140 141	120 Principles of Financial Accounting 110 Introduction to Business 115 Business Law I 125 Personal Finance 137 Principles of Management 139 Entrepreneurship I 230 Small Business Management 260 Business Communications 110 Introduction to Computers 115 Introduction to Programming Logic 151 JAVA Programming 153 C# Programming 150 Spreadsheet 110 Database Concepts 110 Database Concepts 111 Principles of Microeconomics 112 Principles of Macroeconomics 113 Medical Insurance 121 Medical Terminology I 120 Principles of Marketing 121 Consumer Behavior 122 Customer Service 136 Word Processing 137 Office Software Applications 138 Project Management Issues 149 Project Management Leadership 150 Security Administration I 151 Elementary Spanish I 152 Web Development Tools 153 Mobile Interface Design	120 Principles of Financial Accounting 110 Introduction to Business 3 115 Business Law I 3 125 Personal Finance 3 137 Principles of Management 3 139 Entrepreneurship I 3 230 Small Business Management 3 260 Business Communications 3 110 Introduction to Computers 2 115 Introduction to Programming Logic 2 151 JAVA Programming 2 153 C# Programming 2 130 Spreadsheet 2 110 Database Concepts 2 251 Principles of Microeconomics 3 252 Principles of Microeconomics 3 210 Medical Insurance 3 121 Medical Terminology I 3 120 Principles of Marketing 3 221 Consumer Behavior 3 223 Customer Service 3 3 36 Word Processing 37 Office Software Applications 2 10 Project Management Issues 2 11 Elementary Spanish I 3 Web Development Tools 3 140 Web Development Tools 4 141 Mobile Interface Design	120         Principles of Financial Accounting         3         2           110         Introduction to Business         3         0           115         Business Law I         3         0           125         Personal Finance         3         0           137         Principles of Management         3         0           139         Entrepreneurship I         3         0           230         Small Business Management         3         0           260         Business Communications         3         0           110         Introduction to Computers         2         2           115         Introduction to Programming Logic         2         3           151         JAVA Programming         2         3           153         C# Programming         2         3           154         C# Programming         2         3           155         C# Programming         2         3           130         Spreadsheet         2         2           110         Database Concepts         2         3           251         Principles of Microeconomics         3         0           252         Principles of Macroe	120         Principles of Financial Accounting         3         2         0           110         Introduction to Business         3         0         0           115         Business Law I         3         0         0           125         Personal Finance         3         0         0           137         Principles of Management         3         0         0           139         Entrepreneurship I         3         0         0           230         Small Business Management         3         0         0           260         Business Communications         3         0         0           210         Introduction to Computers         2         2         0           15         Introduction to Programming Logic         2         3         0           15         JAVA Programming         2         3

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

Work/
Class Lab ClinicalCredit

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

<sup>\*</sup>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.

		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 3 3
PMT	110	Intro to Project Mgmt	3	0	0	3
			9	9	0	<del></del> 13
		First Year — Spring Semester		9	U	13
CTS	115	Info Sys Business Concepts	3	0	0	3
CTS	220	Adv Hard/Software Support	2	3	0	
HMT	110	Intro to Healthcare Mgt	3	0	0	3
NET	125	Introduction to Networks	1	4	Ö	3
NOS	130	Windows Single User	2	2	0	3 3 3 3
				_	_	
		First Voor Symmon Comogt	11	9	0	15
ENG	111	First Year — Summer Semeste Writing and Inquiry	3	0	0	2
MAT	143			2	0	3
MAI	143	Quantitative Literacy Humanities/Fine Arts Elective*	2 3	0	0	3
			3			3
		Social/Behavioral Sciences Elective*	<i>3</i>	0	0	<u> </u>
			11	2	0	12
		Second Year — Fall Semester	•			
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 3 3
NOS	230	Windows Administration	2	2	0	3
			<u> </u>	8	0	
		Second Year — Spring Semeste		8	U	15
COM	231	Public Speaking	3	0	0	3
or	231	Tuone speaking	5	V	V	5
<b>ENG</b>	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	115	Work Dogod Loorning Comingr I	1	0	0	1
WBL	115	Work-Based Learning Seminar I	2	$0 \\ 2$	$0 \\ 0$	1
SEC	110	Security Concepts IT Major Floative**	2-3			3
		IT Major Elective**	<i>2-3</i>	0-3	0	4
			8-9	2-9	0-10	12-13

**Total Credit Hours** 

67-68

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

				Work/		
			Class	Lab	Clinical	Credit
ACA	122	College Transfer Success	0	2	0	1
COM	231	Public Speaking	3	0	0	3
or						
<b>ENG</b>	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
<b>ENG</b>	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
		The LOCALITY			4.0	

Total Credit Hours 46

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.

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

<sup>\*</sup>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.

<sup>\*\*</sup>Approved IT Major Electives may be selected from courses listed above.