#### **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 OT K/			
					Class	Lab	Clinica	lCredit	
A.	Ge	eneral I	Educa	tion Courses					
	1.	Requir	red Co	ourses					
		<b>ENG</b>	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					
	1.	Core C	Course	es					
		To rec	eive a	degree, diploma or certificate from RCC,	a student	must l	nave a gr	ade of "C	~" ~
		or bett	ter in	all core courses for the program of study.					
		CTI	110	Web, Pgm, & DB Foundation	2	2	0	3	
		CTI	120	Network & Security Foundation	2	2	0	3	
		CTS	115	Info Sys Business Concepts	3	0	0	3	

	CTS	120	Hardware/Software Support	2	3	0	3
	SEC	110	Security Concepts	2	2	0	3
	SEC	160	Security Administration I	2	2	0	3
	2. Other	Major	Courses				
	CIS	115	Introduction to Programming Logic	2	3	0	3
	CTS	220	Advanced Hard/Software Support	2	3	0	3
	CTS	289	System Support Project	1	4	0	3
	or						
	WBL	111	Work-Based Learning I	0	0	10	1
	and						
	WBL	115	Work-Based Learning Seminar I	1	0	0	1
	DBA	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.	Other Re	quire	d Courses				
	ACA	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	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

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

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 Service	3	0	0	3
OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	110	Intro to Project Management	3	0	0	3
PMT	210	Project Management Issues	2	2	0	3
<b>PMT</b>	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	Lab	Work/ 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	<u> </u>	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				
DBA	120	Second Year — Fall Semester	. 2	2	0	3				
DDA	120	Database Programming I	2	2	U	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												
<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												
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

#### CYBER SECURITY (DIPLOMA) (D25590A) 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 & 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		

<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.

		Total Credit Hours			46	
WEB	140	•		3	0	3
SEC	160	Security Administration I	2	2	0	3

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

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

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

		•		Work/		
			Class	Lab	<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
SEC	110	Security Concepts	2	2	2 0	
			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).

#### 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 "(	C"
				all core courses for the program of study.			C	v	
		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		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:

allo II o	a to mai	as the implimation recimiology 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
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 Clinica		alCredit	
		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, 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
012	120	224 William Sold Walls Support	_	_		_
			8	12	0	13
		First Year — Spring Semester				
CTS	115	Info Sys Business Concepts	3	0	0	3
CTS	220	Advanced Hard/Software Support	2	3	0	3
NET	125	Introduction to Networks	1	4	0	
NOS	130	Windows Single User	2	2	0	3
SEC	110	Security Concepts	2	2	0	3
ble	110	Security Concepts				
			10	11	0	15
		First Year — Summer Semeste			Ü	10
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	
1/1/11	1 15	Humanities/Fine Arts Elective*	3	0	0	3 3 3
		Social/Behavioral Sciences Elective*	3	0	0	3
		Social/Benavioral Sciences Licetive				
			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
BLC	100	Security Hammistration 1	_	_		
			8	8	0	12
		Second Year — Spring Semeste		Ü	Ü	
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	20)	System Support Project	•	·	O	5
WBL	111	Work-Based Learning I	0	0	10	1
and	111	Work Busen Bourning 1	Ü	Ŭ	10	-
WBL	115	Work-Based Learning Seminar I	1	0	0	1
WEB	140	Web Development Tools	2	3	0	3
WLD	140	IT Major Elective**	1-3	0-3	0	4
		11 Major Licente		<del></del>		<del>-</del>
			7-9	3-10	0-10	12-13
			, ,	5 10	0 10	12 13

\*Approved Humanities/Fine Arts electives offered online:

**Total Credit Hours** 

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

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<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 ClinicalCredit			
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	
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) (ONLINE) COURSE REQUIREMENTS Work/

				VV OFK/		
			Class	Lab	Clinical	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 18

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

			Work/					
			Class	Lab	Clinical	ClinicalCredit		
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	Clinical	<b>Credit</b>
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	
		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		-	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:

mom	iution i	celliology 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
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 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)

				Work/			
			Class	Lab	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
SEC	110	Security Concepts	2	2	0	3
			<u> </u>	<u> </u>	0	 15
		First Year — Summer Semeste		11	O	15
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
111111	113	Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
		Social Bellavioral 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
			<u> </u>	<u> </u>	0	12
		Second Year — Spring Semeste	-	Ü	Ü	
COM	231	Public Speaking	3	0	0	3
or		- marri 2 f				
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTS	289	System Support Project	1	4	0	3
or		7 11 3				
WBL	111	Work-Based Learning I	0	0	10	1
and		$\mathcal{E}$				
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	<del></del>	<u> </u>	— 12-13
		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.

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

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

		COURSE REQUIREMENT	16				
		-		Work/			
			Class	Lab	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	Clinica	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	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).

### INFORMATION TECHNOLOGY SUPPORT (A25590B) (ONLINE) 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 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:

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
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 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 3	2	0	3
SPA	111	Elementary Spanish I		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)

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

		<b>Total Credit Hours</b>			64-65	
			7-9	3-10	0-10	12-13
		11 Major Electric				
אטע	110	IT Major Elective**	1-3	0-3	0	3 4
WBL DBA	115 110	Work-Based Learning Seminar I Database Concepts	1 2	0	$0 \\ 0$	1 3
and	115	Work Dood Looming Coming I	1	0	0	1
WBL	111	Work-Based Learning I	0	0	10	1
CTS or	289	System Support Project	1	4	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
com or		Public Speaking	3	0	0	3
COM	221	Second Year — Spring Semeste		0	0	2
		Garand Warring God to G	9	6	0	12
	110	and to reject management		_		
PMT	110	Intro to Project Management	3	$\stackrel{\scriptstyle 2}{0}$	0	3
NOS NOS	230	Linux/UNIX Single User Windows Administration I	2	2	0	3 3
CTS	155 120	Tech Support Functions	2 2	2 2	$0 \\ 0$	3
CTC	155	Second Year — Fall Semester	2	2	0	2
			11	2	0	12
		Social/Behavioral Sciences Elective*	3	0	0	3
111111	110	Humanities/Fine Arts Elective*	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
		First Year — Summer Semeste	10 r	11	0	15
						1.5
SEC	110	Security Concepts	2	2	0	3
NOS	130	Windows Single User	2	2	0	3
NET	125	Introduction to Networks	1	4	0	3
CTS	220	Advanced Hard/Software Support	2	3	0	3
CTS	115	First Year — Spring Semester Info Sys Business Concepts	3	0	0	3
		Eina Warn Contra Constant	8	11	0	13
CTS	120	Hardware/Software Support		<u> </u>	0	<u> </u>
CTI	120	Network & Security Foundation	2 2	2 3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CIS	110	Introduction to Computers	2	2	0	3

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

Revised May 16, 2024 2024-2025

### IT SUPPORT (DIPLOMA) (D25590B) (ONLINE) 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
		m				

Total Credit Hours 46

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

				VV UI K/		
			Class	Lab	ClinicalCredit	
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	Clinica	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	Clinica	
A.	G	eneral I	Educat	ion Courses				
	1.	Requi	red Cou	ırses				
		<b>ENG</b>	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.		ajor Co						
	1.	Core C						
				degree, diploma or certificate from RCC,	a student	must h	ave a gr	ade of "C
				ll core courses for the program of study.				
		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
		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
		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.	Ot	ther Re	quired	Courses				
		ACA	-	College Transfer Success	0	2	0	1
				-				

### \*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:

unow	ca to wa	ras the imprimation recimology 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
CIS	110	Introduction to Computers	2	2	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
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	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

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

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

Signature   Sign	
CSC   151   JAVA Programming   2   3   0   0   CTS   115   Info Sys Business Concepts   3   0   0   0   NET   125   Introduction to Networks   1   4   0   0   0   0   0   0   0   0   0	13
CTS         115         Info Sys Business Concepts         3         0         0           NET         125         Introduction to Networks         1         4         0           WEB         140         Web Development Tools         2         3         0           First Year — Summer Semester           ENG         111         Writing and Inquiry         3         0         0           MAT         143         Quantitative Literacy         2         2         2         0           Humanities/Fine Arts Elective*         3         0 <td></td>	
NET   125	3
WEB       140       Web Development Tools       2       3       0         First Year — Summer Semester         ENG       111       Writing and Inquiry       3       0       0         MAT       143       Quantitative Literacy       2       2       0         Humanities/Fine Arts Elective*       3       0       0         Social/Behavioral Sciences Elective*       3       0       0         Second Year — Fall Semester         COM       231       Public Speaking       3       0       0         or       Second Year — Fall Semester         CSC       251       Advanced JAVA Programming       3       0       0         CSC       251       Advanced JAVA Programming       2       3       0         DBA       120       Database Programming I       2       2       0         WEB       141       Mobile Interface Design       2       2       0         WEB       141       Mobile Interface Design       2       2       0         WBL       111       Work-Based Learning I       0       0       10         and       WBL       Work-Based Learning Seminar I       1	3
Second Year — Summer Semester   Second Year — Spring Semeste	3
Nation	3
Nation	
BNG	12
MAT       143       Quantitative Literacy       2       2       0         Humanities/Fine Arts Elective*       3       0       0         Social/Behavioral Sciences Elective*       3       0       0         I1       2       0         Second Year — Fall Semester         COM       231       Public Speaking       3       0       0         or       0       0       0       0       0       0         ENG       112       Writing/Research in the Disciplines       3       0       0       0         CSC       251       Advanced JAVA Programming       2       3       0       0         CSC       251       Advanced JAVA Programming I       2       2       0         NOS       120       Linux/UNIX Single User       2       2       0         WEB       141       Mobile Interface Design       2       2       0         WEB       2       2       0       0       0         WBL       111       Work-Based Learning I       0       0       10         and       WBL       115       Work-Based Learning Seminar I       1       0       0	
Humanities/Fine Arts Elective*   3   0   0	3
Social/Behavioral Sciences Elective*   3   0   0     -     -	3
Second Year — Fall Semester   COM 231	3
Second Year — Fall Semester   COM 231   Public Speaking   3   0   0   0	3
Second Year — Fall Semester   COM 231   Public Speaking   3   0   0   0	
COM 231 or       Public Speaking or       3 0 0         ENG 112 Writing/Research in the Disciplines       3 0 0         CSC 251 Advanced JAVA Programming DBA 120 Database Programming I 2 2 2 0       2 2 0         NOS 120 Linux/UNIX Single User 2 2 2 0       2 2 0         WEB 141 Mobile Interface Design 2 2 2 0       2 0         WEB 141 Wobile Interface Design 2 2 2 0       2 0         WEB 141 Work-Based Learning I 0 0 0       10 0         WBL 111 Work-Based Learning I 0 0 0 10       0 0 10         WBL 115 Work-Based Learning Seminar I 1 0 0 0       0         SEC 110 Security Concepts 2 2 3 0       2 2 0         WEB 250 Database Driven Websites 2 3 0	12
or       ENG       112       Writing/Research in the Disciplines       3       0       0         CSC       251       Advanced JAVA Programming       2       3       0         DBA       120       Database Programming I       2       2       2       0         NOS       120       Linux/UNIX Single User       2       2       0         WEB       141       Mobile Interface Design       2       2       0         Second Year — Spring Semester         CTS       289       System Support Project       1       4       0         or       WBL       111       Work-Based Learning I       0       0       10         and       WBL       115       Work-Based Learning Seminar I       1       0       0         SEC       110       Security Concepts       2       2       2       0         WEB       250       Database Driven Websites       2       3       0	_
ENG       112       Writing/Research in the Disciplines       3       0       0         CSC       251       Advanced JAVA Programming       2       3       0         DBA       120       Database Programming I       2       2       2       0         NOS       120       Linux/UNIX Single User       2       2       2       0         WEB       141       Mobile Interface Design       2       2       0         Second Year — Spring Semester         CTS       289       System Support Project       1       4       0         or       WBL       111       Work-Based Learning I       0       0       10         and       WBL       115       Work-Based Learning Seminar I       1       0       0         SEC       110       Security Concepts       2       2       2       0         WEB       250       Database Driven Websites       2       3       0	3
CSC       251       Advanced JAVA Programming I       2       3       0         DBA       120       Database Programming I       2       2       0         NOS       120       Linux/UNIX Single User       2       2       0         WEB       141       Mobile Interface Design       2       2       0         Second Year — Spring Semester         CTS       289       System Support Project       1       4       0         or       WBL       111       Work-Based Learning I       0       0       10         and       WBL       115       Work-Based Learning Seminar I       1       0       0         SEC       110       Security Concepts       2       2       0         WEB       250       Database Driven Websites       2       3       0	
DBA       120       Database Programming I       2       2       0         NOS       120       Linux/UNIX Single User       2       2       0         WEB       141       Mobile Interface Design       2       2       0         Second Year — Spring Semester         CTS       289       System Support Project       1       4       0         or       WBL       111       Work-Based Learning I       0       0       10         and       WBL       115       Work-Based Learning Seminar I       1       0       0         SEC       110       Security Concepts       2       2       2       0         WEB       250       Database Driven Websites       2       3       0	3
NOS       120       Linux/UNIX Single User       2       2       0         WEB       141       Mobile Interface Design       2       2       0         Second Year — Spring Semester         CTS       289       System Support Project       1       4       0         or       WBL       111       Work-Based Learning I       0       0       10         and       WBL       115       Work-Based Learning Seminar I       1       0       0         SEC       110       Security Concepts       2       2       2       0         WEB       250       Database Driven Websites       2       3       0	3
WEB       141       Mobile Interface Design       2       2       0         Second Year — Spring Semester         CTS       289       System Support Project       1       4       0         or       WBL       111       Work-Based Learning I       0       0       10         and       WBL       115       Work-Based Learning Seminar I       1       0       0         SEC       110       Security Concepts       2       2       2         WEB       250       Database Driven Websites       2       3       0	3
Second Year — Spring Semester   T	3
Second Year — Spring Semester         CTS 289 System Support Project or       1 4 0         or       0 0 10         WBL 111 Work-Based Learning I 0 0 0       0 10         and WBL 115 Work-Based Learning Seminar I 1 0 0       0 0         SEC 110 Security Concepts 2 2 0       2 2 0         WEB 250 Database Driven Websites 2 3 0	3
Second Year — Spring Semester         CTS 289 System Support Project or       1 4 0         or       0 0 10         WBL 111 Work-Based Learning I 0 0 0       0 10         and WBL 115 Work-Based Learning Seminar I 1 0 0       0 0         SEC 110 Security Concepts 2 2 0       2 2 0         WEB 250 Database Driven Websites 2 3 0	1.5
CTS 289 System Support Project or       1 4 0         WBL 111 Work-Based Learning I and       0 0 10         WBL 115 Work-Based Learning Seminar I SEC 110 Security Concepts       1 0 0         WEB 250 Database Driven Websites       2 2 0	15
or WBL 111 Work-Based Learning I 0 0 10 and WBL 115 Work-Based Learning Seminar I 1 0 0 SEC 110 Security Concepts 2 2 0 WEB 250 Database Driven Websites 2 3 0	2
WBL 111 Work-Based Learning I and       0 0 10         WBL 115 Work-Based Learning Seminar I SEC 110 Security Concepts       1 0 0         WEB 250 Database Driven Websites       2 2 0	3
and WBL 115 Work-Based Learning Seminar I 1 0 0 SEC 110 Security Concepts 2 2 0 WEB 250 Database Driven Websites 2 3 0	1
WBL115Work-Based Learning Seminar I100SEC110Security Concepts220WEB250Database Driven Websites230	1
SEC 110 Security Concepts 2 2 0 WEB 250 Database Driven Websites 2 3 0	1
WEB 250 Database Driven Websites 2 3 0	•
	3
11 Major Elective 2.3 0.5 0	4
<u> </u>	
7-8 5-12 0-10	12-13
Total Credit Hours 64-65	5

<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.

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

				Work/			
			Class	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	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	
<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) **COURSE REQUIREMENTS**

					***	
				Work/		
			Class	s Lab Clinical		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

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	

18

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

#### COURSE REQUIREMENTS

		COCKSE REQUIREME	1110				
				Work/			
			Class	ss Lab Clinica		alCredit	
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** 

Revised May 16, 2024 2024-2025

### 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		Clinical	Credit
A.	Ge	eneral H	Educati	on Courses				
	1.	Requir	red Cou	rses				
		ENG		Writing and Inquiry	3	0	0	3
		COM		Public Speaking	3	0	0	3
		or		1 0				
		<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					
		Core C						
		To rec	eive a a	legree, diploma or certificate from RCC, a	a student	must ha	ave a gr	ade of "C"
				l core courses for the program of study.			O	J
		CTI		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		• 11 0				
		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**	Varies	Varies	0	4
C.	Ot	her Re	quired	Courses				
		ACA	-	College Transfer Success	0	2	0	1
				-				

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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 o	f SPA are allowed	towards the Info	rmation Technolog	v degree:
1,000.		, SI II con e conte m eco			

Note. Only 5 SCH of SFA are allowed lowards 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	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	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, 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 CTI 120 Network & Security Foundation	2 2	2 2	0 0	3
CTS 120 Hardware/Software Support	$\frac{1}{2}$	3	0	3
	8	<u> </u>	0	<del></del> 13
First Year — Spi	ring 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
WEB 140 Web Development Tools	2	3	0	3
	8	10	0	12
First Year — Sun	nmer Semester			
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		0	0	3
	— 11	2	0	12
Second Year —		_	Ü	
COM 231 Public Speaking or	3	0	0	3
ENG 112 Writing/Research in the Disciplines	3	0	0	3
CSC 251 Advanced JAVA Programming	2	3	0	3
DBA 120 Database Programming I	2	2	0	3
NOS 120 Linux/UNIX Single User	$\frac{1}{2}$	2	0	3
WEB 141 Mobile Interface Design	2	2	0	3
	— 11	9	0	 15
Second Year — S				
CTS 289 System Support Project	1	4	0	3
or WBL 111 Work-Based Learning I and	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
<b>Total Credit Hours</b>			64-65	

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

#### 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							
<b>ENG</b>	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	
<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/		
			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** 

<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	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

		COUNDE REQUIREM				
					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

			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	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).

### 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
			11	15	0	18
		Total Credit Hours			18	

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

		_		Work/				
			Class	Lab	Clinica	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.	Ge	neral E	Educati	on Courses				
	1.	Requir	ed Cou	rses				
		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.		ajor Co						
	1.	Core C						
				egree, diploma or certificate from RCC, a	student	must h	ave a gr	ade of "C"
				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		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.		Major C					
		CTS	155	Tech Support Functions	2	2	0	3
		CTS	220	Adv Hard/Software Support	2	3	0	3
		CTS	289	System Support Project	1	4	0	3
		or						
		WBL	111	Work-Based Learning I	0	0	10	1
		and						
		WBL	115	Work-Based Learning Seminar I	1	0	0	1
		HMT	110	Intro to Healthcare Mgt	3	0	0	3
		NET	125	Introduction to Networks	1	4	0	3
		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		-	Courses	-	_	_	
		ACA	122	College Transfer Success	0	2	0	1

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67-68

**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
		č č	3	2		
ACC	120	Principles of Financial Accounting Introduction to Business	3	$\stackrel{\scriptstyle 2}{0}$	0	4
BUS	110				0	
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 Service	3	0	0	3
OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	210	Project Management Issues	2	2	0	3
PMT	215	Project Management Leadership	3	0	0	3
SEC	160	Security Administration I	2	2	0	3
SPA	111	Elementary Spanish I	3	0	0	3
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/	,, (12)
			Class	Lab	Clinical	Credit
		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	r			
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				
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	WID II 'C' I	1	0	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**

67-68

## 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 46

<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

							Work	1
					Class	Lab	Clinical	Credit
A.	Ge	eneral I	Educati	on Courses				
	1.	Requi	red 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
В.	M	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		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	289	System Support Project	1	4	0	3
		or						
		WBL	111	Work-Based Learning I	0	0	10	1
		and						
		WBL	115	Work-Based Learning Seminar I	1	0	0	1
		HMT	110	Intro to Healthcare Mgt	3	0	0	3
		NET	125	Introduction to Networks	1	4	0	3
		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	quired	Courses				
		ACA	122	College Transfer Success	0	2	0	1

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**Total Credit Hours** 

<sup>\*\*</sup>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	<b>Business Communications</b>	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
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 Service	3	0	0	3
OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	210	Project Management Issues	2	2	0	3
PMT	215	Project Management Leadership	3	0	0	3
SEC	160	Security Administration I	2	2	0	3
SPA	111	Elementary Spanish I	3	0	0	3
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) (ONLINE)

Work/
Class Lab ClinicalCredit

<sup>\*</sup>Approved Humanities/Fine Arts electives offered online: ART 111, ENG 231, 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
PMT	110	Intro to Project Mgmt	3	0	0	3
			_	_	_	_
			9	9	0	13
		First Year — Spring Semester				
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 3 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		,	U	13
<b>ENG</b>	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	
		Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			_	_	_	_
			11	2	0	12
C TO C		Second Year — Fall Semester		2	0	2
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 Semest		Ü	O	10
COM	231	Public Speaking	3	0	0	3
or	110	W.'.' /D 1 ' /1 D' ' 1'	2	0	0	2
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		C				
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
			<u> </u>	2.0	— 0.10	— 12.12
			8-9	2-9	0-10	12-13

**Total Credit Hours** 

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## 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
		Total Cualit Hanna			16	

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, 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.