

2017-2018

Effective Fall 2017

Program and Course Catalog

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Richmond Community College offers curricular programs leading to an associate degree, a diploma, or a certificate. Certificates may be awarded through certain curricula upon the satisfactory completion of prescribed courses selected and identified by the College. For more information, see your academic advisor.

The Academic Success Center, tutorial services, and developmental education courses are available for students who need to enhance or review basic skills prior to entering a curriculum. New programs and courses are added in response to student and community needs. All course syllabi are available on the college website. This general catalog represents the most accurate information available concerning Richmond Community College at the time of its publication. However, the College reserves the right to delete or change programs and courses as may be required.

The curricular programs are designed so all students who complete requirements for a degree or diploma will meet required competencies in reading, writing, oral communication, computing and general math skills.

Curricular programs are arranged in alphabetical order and described in detail on the following pages.

Degrees, Diplomas, and Certificates

The Board of Trustees of Richmond Community College, under the authority of the State Board of Community Colleges, is authorized to award the following degrees, diplomas, and certificates:

- 1. An Associate in Arts or Associate in Science degree is awarded for successful completion of the college transfer curriculum.
- 2. An Associate in Applied Science degree is awarded for successful completion of a 64-76 semester hour curriculum.
- 3. A diploma is awarded for successful completion of a 36-48 semester hour curriculum.
- 4. A certificate is awarded for successful completion of programs that are 12-18 semester hours credit in length. The courses will be determined by Richmond Community College.

Courses of Study

College Transfer Programs

These programs are offered through the Associate in Arts (A.A.) and Associate in Science (A.S.) degrees. The Associate in Arts and the Associate in Science programs are part of the Comprehensive Articulation Agreement (CAA). This agreement addresses the transfer of students between institutions in the North Carolina Community College System and the constituent institutions of the University of North Carolina.

Associate in Arts (A10100) RCC – N.C. State University Agricultural Sciences (A10100AH) RCC – UNC-Pembroke Elementary Education (A10100) Associate in Engineering (A10500) Associate in Science (A10400) Associate in Science – Pre-Medical Pathway (A10400) RCC – N.C. State University Poultry Science (A10400P) RCC – Wingate University Pre-Pharmacy Pathway (A10400W)

Associate in Applied Science Programs

These programs range from 64 to 76 semester hour credits. A full-time student can typically complete one of these programs within two years. In addition to major course work, associate in applied science degree programs require a minimum of 15 semester hour credits of general education. General education requirements include course work in communications, humanities/ fine arts, social/behavioral sciences and natural sciences/mathematics. Certain courses in associate degree programs may be accepted by a four-year college or university for transfer credit in an associated field.

Accounting (A25100) Air Conditioning, Heating, and Refrigeration Technology (A35100) Associate Degree Nursing (A45110) Business Administration: General Business (A25120GB) Business Administration: Public Administration (A25120PA) Computer Engineering Technology (A40160) Criminal Justice Technology (A55180) Early Childhood Education (A55220) Electric Utility Substation and Relay Technology (A50510) Electronics Engineering Technology (A40200) Health Information Technology (A45360) Healthcare Business Informatics (A25510) Healthcare Management Technology (A25200) Human Services Technology (A45380) Human Services Technology: Social Services (A4538D) Human Services Technology: Substance Abuse (A4538E) Industrial Systems Technology (A50240) Information Technology: Cyber Security (A25590A) Information Technology: Information Technology Support (A25590B) Information Technology: Software and Web Development (A25590C) Information Technology: Information Technology Support-Healthcare (A25590E) Mechanical Engineering Technology (A40320) Mechatronics Engineering (A40350) Medical Assisting (A45400) Nonprofit Leadership & Management (A25410) Office Administration (A25370)

Note: Associate in Applied Science Degree students considering transfer to a senior institution should substitute a higher-level mathematics course for the required mathematics course listed in their curriculum.

Diploma Programs

These programs range from 36 to 48 semester hour credits and can usually be completed by a full-time student within two semesters and one summer term. Associate degree level courses within a diploma program may also be applied toward an Associate in Applied Science degree.

Air Conditioning, Heating, and Refrigeration Technology (D35100) Computer-Integrated Machining (D50210) Criminal Justice Technology (D55180) Dialysis Technology (D45300) Early Childhood Education: Special Education (D55220) Electric Utility Transformer Test Specialist (D50510) Electrical Systems Technology (D35130) Industrial Systems Technology (D50240) Information Technology: Cyber Security (D25590A) Information Technology: Information Technology Support (D25590B) Information Technology: Software and Web Development (D25590C) Information Technology: Information Technology Support-Healthcare (D25590E) Mechanical Engineering Technology (D40320) Practical Nursing (D45660) Therapeutic & Diagnostic Services: Nurse Aide (D45970) Welding Technology (D50420)

Certificate Programs

These programs range from 12 to 18 semester hour credits and can usually be completed within one semester by a full-time student. Associate degree level courses within a certificate program may also be applied toward a diploma or an associate in applied science degree.

Accounting (C25100A) Accounting/Bookkeeper (C25100B) Air Conditioning, Heating, and Refrigeration Technology: Air Conditioning (C35100C) Air Conditioning, Heating, and Refrigeration Technology: Heating (C35100H) **Business Administration (C25120)** Business Administration: Entrepreneurship (C25120E) Business Administration: Project Management (C25120PM) Business Administration: Public Administration (C25120H) Computer Engineering Technology (C40160) Computer-Integrated Machining (C50210) Computer-Integrated Machining: Machining Technology (C50210M) Criminal Justice Technology: Corrections (C55180C) Criminal Justice Technology: Law Enforcement (C55180L) Early Childhood Administration (C55850) Early Childhood Education (C55220) Early Childhood Preschool (C55860) Electric Utility Substation and Relay Technology: Basic Power Systems (C50510) Electrical Systems Technology (C35130) Electronics Engineering Technology: Electronics Technology (C40200) Healthcare Management Technology (C25200) Human Services Technology: At-Risk Youth Technician (C45380Y) Human Services Technology: Social Gerontology (C45380G) Human Services Technology: Social Services (C45380SC) Human Services Technology: Substance Abuse (C45380SA) Industrial Systems Technology (C50240) Infant/Toddler Care (C55290) Information Technology: Cyber Security Technician (C25590A1) Information Technology: Security+ Prep (C25590A2) Information Technology: Entry Level Computer Technician (C25590B1) Information Technology: A+ Prep (C25590B2) Information Technology: Web Development Specialist (C25590C1) Information Technology: Computer Programming Specialist (C25590C2) Information Technology: Mobile Applications Development Specialist (C25590C3) Information Technology: Network Management (C25590D1) Information Technology: Network+ Prep (C25590D2) Mechanical Engineering Technology: Computer-Aided Drafting (C40320) Mechatronics Engineering Technology (C40350) Medical Assisting (C45400) Nonprofit Leadership & Management (C25410) Office Administration (C25370R) Office Administration: Microsoft Office (C25370MS)

School-Age Care (C55450) Therapeutic & Diagnostic Services: Nurse Aide (C45970) Welding Technology (C50420)

Types of Instruction

Web-assisted courses: web-assisted courses are delivered 100% face-to-face on campus. There may be up to 24% online course work using the college learning management system. The instructor will provide online resources that will be available to students throughout the entire duration of the course.

Asynchronous online courses: asynchronous online courses are independent of time and location. Rather than gathering in a classroom, students meet online and communicate with the instructor and classmates using the college learning management system (LMS), e-mail and/or other web tools. Students are required to complete 100% of the course online. While there are no required on-campus class meetings, instructors may require a proctored exam.

Synchronous online courses: synchronous online courses are delivered completely online but have set virtual meeting times. Students will have regularly scheduled online meeting times in addition to online assignments. While students are not required to physically come to campus, synchronous courses do require students to meet virtually with their classmates and instructor using web-conferencing tools, web-cam, and a microphone. The required virtual course meeting times will be designated on the course schedule.

Hybrid courses: hybrid courses combine traditional face-to-face learning with online learning. Hybrid courses will require at least 25% but not more than 75% of the course work to be completed online using the college learning management system (LMS), e-mail and/or other web tools. The required traditional course meeting times will be designated on the course schedule.

Interactive television courses: interactive television (ITV) courses are taught by an RCC instructor who teaches traditionally from one campus location and synchronously delivers the class to other campus location(s) using advanced web-conference tools and a large TV monitor. The instructor and students can interact with each other just as they would in a traditional classroom, and students are able to interact with their peers who are enrolled at other campus locations. ITV courses provide opportunities for students to take courses that mirror a traditional classroom setting but from a different more convenient campus location.

Section indicators on RCC Course Schedule

- "W" = Online courses
 - Asynchronous courses will have "TBA" listed for days and times
- Synchronous courses will have scheduled days and times listed for online virtual meetings "H" = Hybrid courses
- "V" = ITV courses

Developmental Education

Students scoring below the official cutoff scores on the Computerized Placement Tests will be assigned to the appropriate developmental course(s). These courses are designed to provide the student with the reading, writing, mathematics, and keyboarding skills needed to enter a one or two-year program.

Because most curriculum courses have developmental prerequisites, the following restrictions apply: (1) Students will not be allowed to register for those curriculum courses until the prerequisite courses are passed. (2) Students required to take DRE 096 or DRE 097 should postpone taking any curriculum courses until they progress to DRE 098. (3) Students required to take more than one developmental course should limit their enrollment in curriculum courses to those requiring the least reading, writing and computational competencies.

DEVELOPMENTAL COURSES (DAY/EVENING)

				Work/				
			Class	Lab Clinical Credit				
BIO	094	Concepts of Human Biology	3	2	0	4		
CIS	070	Fundamentals of Computing	0	2	0	1		
DMA	010	Operations with Integers	.75	.50	0	1		
DMA	020	Fractions and Decimals	.75	.50	0	1		
DMA	030	Proportions/Ratio/Rate/Percent	.75	.50	0	1		
DMA	040	Expressions/Linear Equations and Inequalities	.75	.50	0	1		
DMA	050	Graphs/Equations of Lines	.75	.50	0	1		
DMA	060	Polynomials/Quadratic Equations	.75	.50	0	1		
DMA	070	Rational Expressions/Equations	.75	.50	0	1		
DMA	080	Radical Expressions/Equations	.75	.50	0	1		
DRE	096	Integrated Reading and Writing	2.5	1	0	3		
DRE	097	Integrated Reading Writing II	2.5	1	0	3		
DRE	098	Integrated Reading Writing III	2.5	1	0	3		
SCI	090	Skills for the Sciences	2	2	0	3		

Exit Requirements

Final Grades for all DMA and DRE courses will be "P' (Pass) or "R" (Re-enroll). Students must have an 80% pass rate for each course to progress to the next course.

Associate Degree Curricula

UNIVERSITY TRANSFER Associate in Arts (A10100)

Richmond Community College offers two associate degree programs designed to allow seamless transition to four-year institutions: Associate in Arts (A.A.) and Associate in Science (AS). These programs are designed to offer students the freshman and sophomore years of a baccalaureate-track program.

The Associate in Arts program is designed for students desiring a bachelor's degree and/or preprofessional training in areas other than fine arts and natural/biological/mathematical sciences. Students who plan to major in such disciplines as art, business, economics, history, humanities, liberal arts, liberal arts education, music, political science, psychology, and sociology should consult a counselor about enrolling in the A.A. program.

The Associate in Arts degree is granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the A.A. degree program, students have the opportunity to achieve competency in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

ACADEMIC PRE-MAJORS

Counselors and advisors can help students design a program of study. See **http://www.northcarolina.edu/?q=content/nc-community-college-transfer** for additional information.

A. UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (45 SHC)

(All courses in this component are required and will transfer for equivalency credit.)

						VV OrK/	
				Class	Lab	Clinical	Credit
1.	Englis	h Cor	mposition (6 SHC)				
	ENG	111	Writing & Inquiry	3	0	0	3
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
2.	Comn	nunica	ations and Humanities/Fine Arts (9 SH0	C)			
	Choos	e thre	e (3) courses from the following from at le	east two (2	?) diffe	rent disci	plines:
	ART	111	Art Appreciation	3	0	0	3
	ART	115	Art History Survey II	3	0	0	3
	COM	231	Public Speaking	3	0	0	3
	ENG	231	American Literature I	3	0	0	3
	ENG	232	American Literature II	3	0	0	3
	ENG	241	British Literature I	3	0	0	3
	ENG	242	British Literature II	3	0	0	3
	MUS	110	Music Appreciation	3	0	0	3

	PHI	240	Introduction to Ethics	3	0	0	3
3.			vioral Sciences (9 SHC)				
	Choos	e three	(3) courses from the following from at least	two (2)	differe	nt discip	olines.
	ECO	251	Principles of Microeconomics	3	0	0	3
	ECO	252	Principles of Macroeconomics	3	0	0	3
	HIS	111	World Civilization I	3	0	0	3
	HIS	112	World Civilization II	3	0	0	3
	HIS	131	American History I	3	0	0	3 3
	HIS	132	American History II	3	0	0	3 3
	POL	120	American Government	3	0	0	3
	PSY	150	General Psychology	3	0	0	3
	SOC	210	Introduction to Sociology	3	0	0	3
4.	Mathe	ematic	s (3-4 SHC)				
	Select	one co	urse from the following:				
	MAT		Quantitative Literacy	2	2	0	3
	MAT	152	Statistical Methods I	3	2	0	4
	MAT	171	Precalculus Algebra	3	2	0	4
5.	Natur		nces (4 SHC)				
			he following course(s):				
	AST		Descriptive Astronomy	3	0	0	3
	and		1				
	AST	111A	Descriptive Astronomy Lab	0	2	0	1
	BIO	111	General Biology I	3	3	0	4
	CHM	151	General Chemistry I	3	3	0	4
	GEL	111	Geology	3	2	0	4
	PHY	110	Conceptual Physics	3	0	0	3
	and						
	PHY	110A	Conceptual Physics Lab	0	2	0	1
6	Additi		Ceneral Education hours (13-14 SHC)*				

6. Additional General Education hours (13-14 SHC)*

Select 13-14 semester hours of additional general education courses from the preceding Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences or any of the courses listed below. Students should select these courses based on their intended major and transfer university.

B. OTHER REQUIRED HOURS (15 SHC)

1. Academic Transition

ACA 122 College Transfer Success 0 2

2. Electives (14 SHC)**

Select a minimum of fourteen (14) semester hours. Students may take additional general education courses from the preceding general education sections or courses classified as a pre-major and/or elective course within the Comprehensive Articulation Agreement listed below. Students should select these courses based on their intended major and transfer university.

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

0

1

Total Credit Hours

60-61

<u>Articu</u>	ilation .	Agreement.			Work/	
			Class	Lab		l Credit
ANT	220	Cultural Anthropology	3	0	0	3
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ASL	111	Elementary Sign Language I	3	0	0	3
ASL	112	Elementary Sign Language II	3	0	0	3
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
AST	151	General Astronomy I	3	0	0	3
AST	151A	•	0	2	0	1
BIO	110	Principles of Biology	3	3	0	4
BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
BIO	120	Introductory Botany	3	3	0	4
BIO	130	Introductory Zoology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	1
CHI	111	Elementary Chinese I	3	0	0	3
CHI	112	Elementary Chinese II	3	0	0	3
CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
CHM	132	Organic and Biochemistry	3	3	0	4
	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming & Logic	2	3	0	3
COM	110	Introduction to Communication	3	0	0	3
COM	120	Interpersonal Communication	3	0	0	3
COM	231	Public Speaking	3	0	0	3
DRA	111	Theatre Appreciation	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
ENG	131	Introduction to Literature	3	0	0	3 3 3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	233	Major American Writers	3	0	0	3
ENG	241	British Literature I	3	0	0	3
-			_	~		-

*<u>Courses approved to meet the General Education requirement under the Comprehensive</u> <u>Articulation Agreement</u>.

ENG 242 British Literature II

3

0 0

3

ENG	0.42	M' D'' 1 W''	2	0	0	2
ENG	243	Major British Writers	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GEL	111	Geology	3	2	0	4
GEL	120	Physical Geology	3	2	0	4
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3
HIS	111	World Civilization I	3	0	0	3
HIS	112	World Civilization II	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	120	Cultural Studies	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	150	American Women's Studies	3	0	0	3
HUM	160	Introduction to Film	2	2	0	3
HUM	211	Humanities I	3	0	0	3
HUM	212	Humanities II	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	2	0	4
MAT	171	Precalculus Algebra	3	2	0	4
MAT	172	Precalculus Trigonometry	3	2	0	4
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0 0	4
MUS	110	Music Appreciation	3	0	0	3
MUS	112	Introduction to Jazz	3	0	0	3
PHI	215	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	
PHY	110	Conceptual Physics	3	0	0	3 3
PHY	110 110A	Conceptual Physics Lab	0	2	0	1
PHY	151	College Physics I	3	$\frac{2}{2}$	0	4
PHY	151	College Physics II	3	$\frac{2}{2}$	0	4
PHY	251	General Physics I	3	$\frac{2}{3}$	0	4
PHY	252	General Physics II	3	3	0	4
POL	110	Introduction to Political Science	3	0	0	4
			3			3
POL	120	American Government	3 3	0	0	с С
POL	220	International Relations		0	0	3
PSY	150	General Psychology	3 3	0	0	3 3
PSY	237	Social Psychology	3	0	0	3

PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
REL	110	World Religions	3	0	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	3	0	0	3
REL	211	Introduction to Old Testament	3	0	0	3
REL	212	Introduction to New Testament	3	0	0	3
REL	221	Religion in America	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
SOC	225	Social Diversity	3	0	0	3
SOC	240	Social Psychology	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3

**Courses approved as pre-major and/or elective courses under the Comprehensive Articulation Agreement.

					Work/	
			Class	Lab	Clinical	Credit
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ANT	220	Cultural Anthropology	3	0	0	3
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	131	Drawing I	0	6	0	3
ASL	181	American Sign Language Lab I	0	2	0	1
ASL	182	American Sign Language Lab II	0	2	0	1
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
AST	151	General Astronomy I	3	0	0	3
AST	151A	General Astronomy I Lab	0	2	0	1
BIO	110	Principles of Biology	3	3	0	4
BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
BIO	120	Introductory Botany	3	3	0	4
BIO	130	Introductory Zoology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	1
BIO	163	Basic Anatomy and Physiology	4	2	0	5
BIO	165	Anatomy and Physiology I	3	3	0	4
BIO	166	Anatomy and Physiology II	3	3	0	4
BIO	275	Microbiology	3	3	0	4

DUG	110		2	0	0	2
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law I	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
BUS	228	Business Statistics	2	2	0	3
CHI	111	Elementary Chinese I	3	0	0	3
CHI	112	Elementary Chinese II	3	0	0	3
CHI	181	Chinese Lab I	0	2	0	1
CHI	182	Chinese Lab II	0	2	0	1
	131	Introduction to Chemistry	3	0	0	3
	131A	Introduction to Chemistry Lab	0	3	0	1
	132	Organic and Biochemistry	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
	152	General Chemistry II	3	3	0	4
	251	Organic Chemistry I	3	3	0	4
CHM	252	Organic Chemistry II	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming & Logic	2	3	0	3 3
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	141	Corrections	3	0	0	3
COM	110	Introduction to Communication	3	0	0	3
COM	120	Interpersonal Communication	3	0	0	3
COM	231	Public Speaking	3	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	3
CSC	151	JAVA Programming	2	3	0	3 3
DRA	111	Theatre Appreciation	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3 3
ENG	113	Literature-Based Research	3	0	0	
ENG	114	Professional Research & Reporting	3	0	0	3
ENG	125	Creative Writing I	3	0	0	3
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	233	Major American Writers	3	0	0	3
ENG	241	British Literature I	3	0	0	
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	261	World Literature I	3	0	0	3 3 3 3
ENG	262	World Literature II	3	0	0	3
ENG	272	Southern Literature	3	0	0	
ENG	273	African-American Literature	3	0	0	3 3 3 3
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GEL	111	Geology	3	2	0	4
GEL	120	Physical Geology	3	$\frac{1}{2}$	0	4
GEO	111	World Regional Geography	3	$\tilde{0}$	0	3
010		i erre regional ocography	5	0	0	5

GEO	110		2	0	0	2
GEO	112	Cultural Geography	3	0	0	3
HIS	111	World Civilization I	3	0	0	3
HIS	112	World Civilization II	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
HIS	162	Women and History	3	0	0	3
HIS	221	African-American History	3	0	0	3 3
HIS	226	The Civil War	3	0	0	
HIS	227	Native American History	3	0	0	3
HIS	236	North Carolina History	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	120	Cultural Studies	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	150	American Women's Studies	3	0	0	3
HUM	160	Introduction to Film	2	2	0	
HUM	211	Humanities I	3	0	0	3 3
HUM	212	Humanities II	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	2	0	4
MAT	171	Precalculus Algebra	3	2	0	4
MAT	172	Precalculus Trigonometry	3	2	0	4
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	$\frac{1}{2}$	0	4
MAT	280	Linear Algebra	3	0	0	3
MAT	285	Differential Equations	3	2	0	4
MUS	110	Music Appreciation	3	$\overline{0}$	0	3
PED	110	Fit and Well for Life	1	2	0	2
PED	120	Walking for Fitness	0	3	0	1
PED	120	Walk, Jog, Run	0	3	0	1
PED	142	Lifetime Sports	0	2	0	1
PHI	210	History of Philosophy	3	$\frac{2}{0}$	0	3
PHI	210	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
			3			3
PHY	110	Conceptual Physics		0	0	
PHY	110A	Conceptual Physics Lab	0	2	0	1
PHY	151	College Physics I	3	2	0	4
PHY	152	College Physics II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
PHY	252	General Physics II	3	3	0	4
POL	110	Introduction to Political Science	3	0	0	3
POL	120	American Government	3	0	0	3

DOI	220		2	0	0	2
POL	220	International Relations	3	0	0	3
PSY	150	General Psychology	3	0	0	3
PSY	237	Social Psychology	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
REL	110	World Religions	3	0	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	3	0	0	3
REL	211	Introduction to Old Testament	3	0	0	3
REL	212	Introduction to New Testament	3	0	0	3
REL	221	Religion in America	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
SOC	225	Social Diversity	3	0	0	3
SOC	240	Social Psychology	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	161	Cultural Immersion	2	3	0	3
SPA	181	Spanish Lab 1	0	2	0	1
SPA	182	Spanish Lab 2	0	2	0	1
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3
		-				

ASSOCIATE IN ARTS (A10100) University Transfer

Student Name: ______ Date of Enrollment:______ ID #: _____ Date of Enrollment:______

Section I: Developmental Courses (if needed)

			Prerequisites/		_
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. College Orientation and Academic Transition (1 credit)

Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade		
ACA 122 College Transfer Success	ACA 122	1				
B. Universal General Education Transfer Component (45 credits)*						

English Composition (6 credits)**						
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade		
ENG 111 Writing and Inquiry	ENG 111	3				
ENG 112 Writing/Research in the Disciplines	ENG 112	3				

Communications and Humanities/Fine Arts (9 credits)**						
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade		
Select three (3) courses from the following from at least two (2) different disciplines:		3				
ART 111, ART 114, ART 115, COM 231, ENG 231,		3				
ENG 232, ENG 241, ENG 242, MUS 110, MUS 112, PHI 215, PHI 240 (Courses in Bold are offered at RCC.)		3				

Social/Behavioral Sciences (9 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select three (3) courses from the following from at least two (2) different disciplines:		3		
ECO 251, ECO 252, HIS 111, HIS 112, HIS 131,		3		
HIS 132, POL 120, PSY 150, SOC 210 (Courses in Bold are offered at RCC.)		3		
Mathematics (3-4 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select one (1) course from the following: MAT 143 (3 credits), MAT 152 (4 credits), MAT 171 (4 credits)				

(Courses above are offered at RCC.)

Natural Sciences (4 credits)**CourseCreditSem. Registered/PlannedSem. Completed/GradeSelect 4 credits from the following:
AST 111 and AST 111A, BIO 110, BIO 111, CHM 151,
GEL 111, PHY 110 and PHY 110A
(Courses above are offered at RCC. For other courses
that will satisfy this requirement, refer to the
Program and Course Catalog.)44

Additional General Education (13-14 credits)**

Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select thirteen-fourteen (13-14) semester credits of				
additional courses from the preceding lists or from				
the following:				
ANT 220, ASL 111, ASL 112, BIO 112, BIO 140, BIO				
140A, CHI 111, CHI 112, CHM 132, CHM 152, CIS 110,		_		
CIS 115, COM 110, DRA 111, ENG 131, ENG 241, ENG				
262, FRE 111, HIS 121, HIS 122, MAT 172, MAT 271,				
PHY 151, PHY 152, PHY 251, PSY 241, PSY 281, REL				
110, REL 211, REL 212, REL 221, SOC 213, SPA 111,				
SPA 112, SPA 211, SPA 212				
(Courses above are offered at RCC. For other courses				
that will satisfy this requirement, refer to the				
Program and Course Catalog.)				

C. Other Required Hours (14 credits)*

Pre-major and/or Elective Courses (14 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select a minimum of fourteen (14) semester credits				
from general education courses listed above (section				
B) or from the following:				
ACC 120, ACC 121, ART 115, ART 131, ASL 181, ASL				
182, BIO 163, BIO 165, BIO 166, BIO 275, BUS 110,				
BUS 115, BUS 137, CHM 251, CJC 111, CJC 141, CSC				
139, EDU 216, ENG 273, HEA 120, HIS 236, PED 110,				
PED 120, PED 121, SPA 181, SPA 182				
(Courses above are offered at RCC. For other courses				
that will satisfy this requirement, refer to the				
Program and Course Catalog.)				

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

UNIVERSITY TRANSFER ASSOCIATE IN ARTS (A10100) (ONLINE)

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

A. UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (45 SHC)

(All courses in this component are required and will transfer for equivalency credit.)

						Work/			
				Class	Lab	Clinical	Credit		
1.	Englis	sh Co	mposition (6 SHC)						
	ENG	111	Writing & Inquiry	3	0	0	3		
	ENG	112	Writing/Research in the Disciplines	3	0	0	3		
2.	Comn	nunic	ations and Humanities/Fine Arts (9 SH	C)					
	Choose three (3) courses from the following from at least two (2) different disciplines:								
	ART	111	Art Appreciation	3	0	0	3		
	COM		Public Speaking	3	0	0	3		
	ENG	231	American Literature I	3	0	0	3		
	ENG	232	American Literature II	3	0	0	3		
	ENG	242		3	0	0	3		
	MUS	110	Music Appreciation	3	0	0	3		
	PHI	240	Introduction to Ethics	3	0	0	3		
3.			avioral Sciences (9 SHC)						
			we (3) courses from the following from at l	east two (2	?) diffe		-		
	ECO	251	Principles of Microeconomics	3	0	0	3		
	ECO	252	Principles of Macroeconomics	3	0	0	3		
	HIS	111	World Civilization I	3	0	0	3		
	HIS	112	World Civilization II	3	0	0	3		
	HIS	131	American History I	3	0	0	3		
	HIS	132	American History II	3	0	0	3		
	POL	120	American Government	3	0	0	3		
	PSY	150	General Psychology	3	0	0	3		
	SOC	210	Introduction to Sociology	3	0	0	3		
4.			cs (3-4 SHC)						
			course from the following:		•	0			
	MAT		Quantitative Literacy	2	2	0	3		
_	MAT		Statistical Methods I	3	2	0	4		
5.			iences (4 SHC)	•		0			
	BIO	. 111	General Biology I	3	3	0	4		
6.			General Education hours (13-14 SHC)*			A 1			
			4 semester hours of additional general ed						
			/Fine Arts, Social/Behavioral Sciences, M						
	• •		courses listed below. Students should s	elect these	e cour	ses base	d on their		
	intend	ed ma	<i>ujor and transfer university.</i>	2	0	0	2		

ANT220Cultural Anthropology3003CIS110Introduction to Computers2203

	PSY	241	Developmental Psychology	3	0	0	3
	REL	110	World Religions	3	0	0	3
	REL	211	Introduction to Old Testament	3	0	0	3
	REL	212	Introduction to New Testament	3	0	0	3
	SOC	213	Sociology of the Family	3	0	0	3
	SPA	111	Elementary Spanish I	3	0	0	3
	SPA	112	Elementary Spanish II	3	0	0	3
В.	OTHER	REQU	JIRED HOURS (15 SHC)				
	1. Acade	emic T	ransition				
	ACA	122	College Transfer Success	0	2	0	1
	2. Electi	ves (14	4 SHC)**				
	Select	a min	imum of fourteen (14) semester hours.	Students ma	y take	additior	ial gen
	oduca	tion co	surses from the preceding general edu	ration saction	s or co	ureas a	lassifia

Select a minimum of fourteen (14) semester hours. Students may take additional general education courses from the preceding general education sections or courses classified as a pre-major and/or elective course within the Comprehensive Articulation Agreement listed below. Students should select these courses based on their intended major and transfer university.

ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
BUS	110	Introduction to Business	3	0	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3
PED	110	Fit and Well for Life	1	2	0	2

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

Total Credit Hours

60-61

The courses listed above are the courses currently offered online through Richmond Community College. Additional courses satisfy many of the requirements necessary to complete the Associate in Arts (A10100) degree at Richmond Community College. Please speak to your advisor if you have taken courses at another college or university. 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.

Program Completion Guide ASSOCIATE IN ARTS (A10100) (Online) University Transfer

Student Name:	ID #:	Date of Enrollment:	

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

A. College Orientation and Academic Transition (1 credit)*

	Recommended			
Courses	Semester	Credit	Sem. Registered/Planned	Sem. Completed/Grade
ACA 122 College Transfer Success	1 st semester	1		

B. Universal General Education Transfer Component (45 credits)*

English Composition (6 credits)**					
	Recommended				
Courses	Semester	Credit	Sem. Registered/Planned	Sem. Completed/Grade	
ENG 111 Writing and Inquiry	1 st semester	3			
ENG 112 Writing/Research in the Disciplines	2 nd semester	3			

Communications and Humanities/Fine Arts (9 credits)**					
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade	
Select three (3) courses from the following from at		3			
least two (2) different disciplines: ART 111, COM 231, ENG 231, ENG 232, ENG 242,		3			
MUS 110, PHI 240		3			

Social/Behavioral Sciences (9 credits)**						
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade		
Select three (3) courses from the following from at		3				
least two (2) different disciplines:		3				
ECO 251, ECO 252, HIS 111, HIS 112, HIS 131, HIS 132,		-				
POL 120, PSY 150, SOC 210		3				
Mathematics (3-4 credits)**						
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade		
Select one (1) course from the following:						
MAT 143 (3 credits), MAT 152 (4 credits)						
Recommended to be taken either the first or second						
semester.						

Natural Sciences (4 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
BIO 111 General Biology I	BIO 111	4		

Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
In addition to the courses listed in the Universal General Education Transfer components, the				
following courses will satisfy the Additional General				
Education hours. Courses taken to satisfy requirements above will only court once.				
Select thirteen to fourteen (13-14) semester credits of additional courses from the preceding lists or from				
the following:				

ANT 220, CIS 110, PSY 241, REL 110, REL 211, REL 212,		
SOC 213, SPA 111, SPA 112		

C. Other Required Hours (14 credits)*

Pre-major and/or Elective Courses (14 credits)**					
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade	
Additional fourteen (14) credits must be selected					
from courses classified as pre-major, elective or					
general education courses within the					
Comprehensive Articulation Agreement. Courses					
taken to satisfy requirements above will only count		_			
once. Students should select these courses based on					
the intended major and transfer university.					
In addition to the courses already listed in the					
Universal General Education Transfer and Universal					
General Education Electives sections, the following					
courses are available online: ACC 120, ACC 121, BUS					
110, CJC 111, PED 110					

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

The courses listed on this program guide are the courses currently offered online through Richmond Community College. Additional courses satisfy many of the requirements necessary to complete the Associate in Arts (A10100) degree at Richmond Community College. Please speak to your advisor if you have taken courses at another college or university. 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.

UNIVERSITY TRANSFER - ASSOCIATE IN ARTS RCC – N.C. State University Agricultural Sciences (A10100AH)

An articulation agreement between N.C. State University and Richmond Community College guarantees students who have successfully completed selected courses in RCC's Associate in Arts program admission into N.C. State University's Bachelor of Science in Agricultural Sciences curriculum as juniors. RCC advisors will assist students in selecting courses which will transfer. Graduates must have a minimum cumulative grade point average of 3.0 at RCC to be eligible to transfer.

Contact the Student Services Department to speak with an advisor. Below is a suggested schedule.

senedule.		Class	Lab	Work/ Clinical	Credit
	First Year – Fall Semester				
ACA 122	College Transfer Success	0	2	0	1
BIO 111	General Biology 1	3	3	0	4
ENG 111	Writing and Inquiry	3	0	0	3
MAT 171	Precalculus Algebra	3	2	0	4
COM	Communication Elective*	3	0	0	3
					—
		12	7	0	15
	First Year – Spring Semester				
BIO 112	General Biology II	3	3	0	4
ECO 251	Principles of Microeconomics	3	0	0	3
ENG 112	Writing/Research in the Disciplines	3	0	0	3
MAT 172	Precalculus Trigonometry	3	2	0	4
HIS	History Elective+	3	0	0	3
		15	5	0	17
	Second Year – Fall Semester			0	
CHM 151	General Chemistry I	3	3	0	4
MAT 271	Calculus I	3	2	0	4
ENG	Literature Elective++	3	0	0	3
	Humanities/Fine Arts**	3	0	0	3
	Social/Behavioral Sciences***	3	0	0	3
		12	5	0	17
	Second Year – Spring Semest		5	Ū	17
CHM 132	Organic and Biochemistry	3	3	0	4
01111 102	Humanities/Fine Arts**	3	0	Ő	3
	Social/Behavioral Sciences***	3	0	0	3
	Free Elective	3	ů 0	ů 0	3
	Free Elective	3	0	0	3
		12	3	0	16
Tota	Credit Hours			61	

*Communication Electives COM 120 Interpersonal Communication COM 231 Public Speaking

+History Electives

HIS 111 or 112 World Civilizations I or II

HIS 121 or 122 Western Civilization I or II

HIS 131 or 132 American History I or II

++Literature Electives

ENG	131	Introduction to Literature
ENG	231 or 232	American Literature I or II
ENG	233	Major American Writers
ENG	241 or 242	British Literature I or II
ENG	243	Major British Writers
ENG	261 or 262	World Literature I or II

**Humanities/Fine Arts

Four (4) courses from at least three (3) different discipline areas are required. At least one (1) course must be a communications course and one (1) must be a literature course. Select other courses from the Associate in Arts Humanities/Fine Arts electives listed in the previous section for the Humanities/Fine Arts electives.

***Social/Behavioral Sciences

Four (4) courses from at least three (3) different discipline areas are required. At least one (1) course must be ECO 251 and one (1) must be a history course. Select other courses from the Associate in Arts Social Sciences electives listed in the previous section for the Social/Behavioral Sciences electives.

UNIVERSITY TRANSFER - ASSOCIATE IN ARTS RCC – UNCP Elementary Education-Sociology Concentration (A10100)

A partnership agreement between the University of North Carolina at Pembroke (UNCP) and Richmond Community College has established a degree completion program serving students enrolled in the Associate in Arts degree program with interests in Elementary Education careers. Upon completion of the Associate in Arts degree, students may pursue the Bachelor of Science (B.S.) Degree in Elementary Education at UNCP on RichmondCC's main campus, through Distance Education, or UNCP's main campus.

Students enrolled at RichmondCC receive:

- Upon completion of all requirements, an Associate Degree from RichmondCC.
- Early identification to UNCP that the student is interested in the B.S. in Elementary Education degree.
- Access to specialized advising by designated advisors at RichmondCC and UNCP to ensure students select courses to minimize their time to degree completion and optimize academic achievement.

UNCP Elementary Education Admission Requirements:

- Student apply to UNCP by submitting the UNCP undergraduate transfer application and official transcripts from high school, RichmondCC, and any other colleges or universities attended.
- Students must complete the Associate in Arts degree program with a minimum grade point average of 2.7 on a 4.0 scale on all prior college/university course work.
- Meet the state established scores on Praxis Core, SAT, or ACT. PRAXIS Core Academic Skills for Educators passing test scores: reading – 156, writing – 162, math – 150; or a combined score of 468. OR
 - SAT score of 1100 or ACT combined score of 24 you do NOT have to take any of the PRAXIS Core tests.
 - SAT math score of 550 or ACT math score of 24 you do NOT have to take the PRAXIS math test.
 - SAT verbal score of 500 or ACT English test score of 24 you do NOT have to take the PRAXIS reading or writing tests.
- Students will be eligible for Teacher Education Admission after satisfactorily completing all requirements and a Teacher Education admission interview.

A. UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (45 SHC)

(All courses in this component are required and will transfer for equivalency credit.)

(11		C 5 III (ins component die required and win dansie		ii vuien	Work/	•)
				Class	Lab	Clinical	Credit
1.	Englis	sh Cor	nposition (6 SHC)				
	ENG		Writing & Inquiry	3	0	0	3
			Writing/Research in the Disciplines	3	0	0	3
2.			ations and Humanities/Fine Arts (9 SHC)				
			e (3) courses from the following from at lea		?) diffe	rent disci	iplines:
	ART	111	Art Appreciation	3	0	0	3
	ART	115	Art History Survey II	3	0	0	3
	COM	231	Public Speaking	3	0	0	3
	ENG	231	American Literature I	3	0	0	3
	ENG	232	American Literature II	3	0	0	3 3
	ENG	241	British Literature I	3	0	0	3
	ENG	242	British Literature II	3	0	0	3
	MUS	110	Music Appreciation	3	0	0	3
	PHI	240	Introduction to Ethics	3	0	0	3
3.	Social	/Beha	vioral Sciences (9 SHC)				
	Requir	red co	urse:				
	SOC	210	Introduction to Sociology	3	0	0	3
	Choos	e two	(2) courses from the following from at least	two (2)	differe	ent discip	lines.
	ECO		Principles of Microeconomics	3	0	0	3
	ECO	252	Principles of Macroeconomics	3	0	0	3
	HIS	111	World Civilization I	3	0	0	3
	HIS	112	World Civilization II	3	0	0	3
	HIS	131	American History I	3	0	0	3
	HIS	132	American History II	3	0	0	3
	POL	120	American Government	3	0	0	3
	PSY	150	General Psychology	3	0	0	3
4.	Mathe	ematio	es (3-4 SHC)				
	Select	one co	ourse from the following:				
	MAT	143	Quantitative Literacy	2	2	0	3
	MAT	152	Statistical Methods I	3	2	0	4
	MAT	171	Precalculus Algebra	3	2	0	4
5.	Natur	al Sci	ences (4 SHC)				
	Select	from t	the following course(s):				
	AST	111	Descriptive Astronomy	3	0	0	3
	and						
	AST	111A	A Descriptive Astronomy Lab	0	2	0	1
	BIO	111	General Biology I	3	3	0	4
	CHM	151	General Chemistry I	3	3	0	4
6.	Addit	ional	General Education hours (13-14 SHC)*				
	Requir						
	SOC	213	Sociology of the Family	3	0	0	3
	SOC	220	Social Problems	3	0	0	3

Select 7-8 semester hours of additional general education courses from the preceding Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences or any of the courses listed below. Students should select these courses based on their intended major and transfer university.

B. OTHER REQUIRED HOURS (15 SHC)

1.	Acade	mic Ti	ransition				
	ACA	122	College Transfer Success	0	2	0	1
2.	Electiv	ves (14	SHC)**				
	Requir	ed cou	rses:				
	PED	110	Fit and Well for Life	1	2	0	2
	PED	120	Walking for Fitness	0	3	0	1
	SOC	225	Social Diversity	3	0	0	3
	SOC	240	Social Psychology	3	0	0	3

Select a minimum of five (5) semester hours. Students may take additional general education courses from the preceding general education sections or courses classified as a pre-major and/or elective course within the Comprehensive Articulation Agreement listed below. Students should select these courses based on their intended major and transfer university.

Total Credit Hours

60-61

*<u>Courses approved to meet the General Education requirement under the Comprehensive</u> <u>Articulation Agreement</u>.

					Work/	
			Class	Lab	Clinical	Credit
ANT	220	Cultural Anthropology	3	0	0	3
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
AST	151	General Astronomy I	3	0	0	3
AST	151A	General Astronomy I Lab	0	2	0	1
BIO	110	Principles of Biology	3	3	0	4
BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
BIO	120	Introductory Botany	3	3	0	4
BIO	130	Introductory Zoology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	1
CHI	111	Elementary Chinese I	3	0	0	3
CHI	112	Elementary Chinese II	3	0	0	3
CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
CHM	132	Organic and Biochemistry	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4

CHM	152	General Chemistry II	3	3	0	4
CINVI	132	Introduction to Computers	2	2	0	4
CIS	115	Introduction to Programming & Logic	$\frac{2}{2}$	3	0	3
COM	110	Introduction to Programming & Logic	$\frac{2}{3}$	0	0	3
COM	120		3	0	0	3
COM		Interpersonal Communication	3	0	0	3
DRA		Public Speaking Theatra Approxistion	3			3
	111	Theatre Appreciation	3 3	0	0	
ECO	251	Principles of Microeconomics		0	0	3
ECO	252	Principles of Macroeconomics Literature-Based Research	3 3	0	0	3
ENG	113		3 3	0	0	3
ENG	114	Professional Research & Reporting		0	0	3
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	233	Major American Writers	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GEL	111	Geology	3	2	0	4
GEL	120	Physical Geology	3	2	0	4
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3
HIS	111	World Civilization I	3	0	0	3
HIS	112	World Civilization II	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM		Cultural Studies	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	150	American Women's Studies	3	0	0	3
HUM	160	Introduction to Film	2	2	0	3
HUM	211	Humanities I	3	0	0	3
HUM	212	Humanities II	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	2	0	4
MAT	171	Precalculus Algebra	3	2	0	4
MAT	172	Precalculus Trigonometry	3	2	0	4
MAT	271	Calculus I	3	2	0	4

MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4
MUS	110	Music Appreciation	3	0	0	3
MUS	112	Introduction to Jazz	3	0	0	3
PHI	215	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
PHY	151	College Physics I	3	2	0	4
PHY	152	College Physics II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
PHY	252	General Physics II	3	3	0	4
POL	110	Introduction to Political Science	3	0	0	3
POL	120	American Government	3	0	0	3
POL	220	International Relations	3	0	0	3
PSY	150	General Psychology	3	0	0	3
PSY	237	Social Psychology	3	0	0	3 3
PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
REL	110	World Religions	3	0	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	3	0	0	3
REL	211	Introduction to Old Testament	3	0	0	3
REL	212	Introduction to New Testament	3	0	0	3
REL	221	Religion in America	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3 3
SPA	111	Elementary Spanish I	3	0	0	
SPA	112	Elementary Spanish II	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3

**<u>Courses approved as pre-major and/or elective courses under the Comprehensive</u> <u>Articulation Agreement</u>.

					Work/	
			Class	Lab	Clinical	Credit
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ANT	220	Cultural Anthropology	3	0	0	3
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	131	Drawing I	0	6	0	3
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
AST	151	General Astronomy I	3	0	0	3
AST	151A	General Astronomy I Lab	0	2	0	1

DIO	110		2	2	0	4
BIO	110	Principles of Biology	3	3	0	4
BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
BIO	120	Introductory Botany	3	3	0	4
BIO	130	Introductory Zoology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	1
BIO	163	Basic Anatomy and Physiology	4	2	0	5
BIO	165	Anatomy and Physiology I	3	3	0	4
BIO	166	Anatomy and Physiology II	3	3	0	4
BIO	275	Microbiology	3	3	0	4
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law I	3	0	0	3
BUS	137	Principles of Management	3	0	0	3 3
BUS	228	Business Statistics	2	2	0	3
CHI	111	Elementary Chinese I	3	0	0	3
CHI	112	Elementary Chinese II	3	0	0	3
CHI	181	Chinese Lab I	0	2	0	1
CHI	182	Chinese Lab II	0	2	0	1
CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
CHM	132	Organic and Biochemistry	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
CHM	251	Organic Chemistry I	3	3	0	4
CHM	252	Organic Chemistry II	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming & Logic	2	3	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	141	Corrections	3	0	0	
COM	110	Introduction to Communication	3	0	0	3 3
COM	120	Interpersonal Communication	3	0	0	3
COM	231	Public Speaking	3	0	0	3
CSC	139	Visual BASIC Programming	2	3	0	3
CSC	151	JAVA Programming	2	3	0	
DRA	111	Theatre Appreciation	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3 3 3 3
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
ENG	125	Creative Writing I	3	0	0	3
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3 3 3 3
ENG	232	American Literature II	3	0	0	3
ENG	233	Major American Writers	3	0	0	3
ENG	241	British Literature I	3	0	0 0	3 3
	-		-	-	-	-

ENG	0.40		2	0	0	2
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
ENG	272	Southern Literature	3	0	0	3
ENG	273	African-American Literature	3	0	0	3
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GEL	111	Geology	3	2	0	4
GEL	120	Physical Geology	3	2	0	4
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3
HIS	111	World Civilization I	3	0	0	3
HIS	112	World Civilization II	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
HIS	162	Women and History	3	0	0	
HIS	221	African-American History	3	0	0	3 3
HIS	226	The Civil War	3	0	0	3
HIS	227	Native American History	3	0	0	3
HIS	236	North Carolina History	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
HUM	115	Critical Thinking	3	0	0	3
HUM	120	Cultural Studies	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	150	American Women's Studies	3	0	0	3
HUM	160	Introduction to Film	2	2	0	3
HUM	211	Humanities I	3	0	0	3
HUM	212	Humanities II	3	0 0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MAT	152	Statistical Methods I	3	$\frac{2}{2}$	0	4
MAT	171	Precalculus Algebra	3	$\frac{2}{2}$	0	4
MAT	172	Precalculus Trigonometry	3	$\frac{2}{2}$	0	4
MAT	271	Calculus I	3	$\frac{2}{2}$	0	4
MAT	271	Calculus I	3	$\frac{2}{2}$	0	4
MAT	272	Calculus III	3	$\frac{2}{2}$	0	4
MAT	273		3		0	4
MAT	280 285	Linear Algebra	3	2	0	3 4
		Differential Equations	3			4
MUS	110	Music Appreciation			0	
PED	121	Walk, Jog, Run	0	3	0	1
PED	142	Lifetime Sports	0	2	0	1
PED	210	Team Sports	0	3	0	1
PHI	210	History of Philosophy	3	0	0	3

PHI	215	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
PHY	151	College Physics I	3	2	0	4
PHY	152	College Physics II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
PHY	252	General Physics II	3	3	0	4
POL	110	Introduction to Political Science	3	0	0	3
POL	120	American Government	3	0	0	3
POL	220	International Relations	3	0	0	3
PSY	150	General Psychology	3	0	0	3
PSY	237	Social Psychology	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
REL	110	World Religions	3	0	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	3	0	0	3
REL	211	Introduction to Old Testament	3	0	0	3
REL	212	Introduction to New Testament	3	0	0	3
REL	221	Religion in America	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
SOC	225	Social Diversity	3	0	0	3
SOC	240	Social Psychology	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	161	Cultural Immersion	2	3	0	3
SPA	181	Spanish Lab 1	0	2	0	1
SPA	182	Spanish Lab 2	0	2	0	1
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3

Program Completion Guide ASSOCIATE IN ARTS - UNIVERSITY TRANSFER RCC – UNCP Elementary Education-Sociology Concentration (A10100)

Student Name: ______ Date of Enrollment: ______

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

A. College Orientation and Academic Transition (1 credit)

Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade				
ACA 122 College Transfer Success	ACA 122	1						
B. Universal General Education Transfer Con	B. Universal General Education Transfer Component (45 credits)*							

English Composition (6 credits)**

Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
ENG 111 Writing and Inquiry	ENG 111	3		
ENG 112 Writing/Research in the Disciplines	ENG 112	3		

Communications and Humanities/Fine Arts (9 credits)**CoursesCourseCreditSem. Registered/PlannedSem. Completed/GradeSelect three (3) courses from the following from at
least two (2) different disciplines:336ART 111, ART 114, ART 115, COM 231, ENG 231,
ENG 232, ENG 241, ENG 242, MUS 110, MUS 112, PHI
215, PHI 240 (Courses in Bold are offered at RCC.)36

Social/Behavioral Sciences (9 credits)**							
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade			
Select three (3) courses from the following from at least two (2) different disciplines:	SOC 210	3					
ECO 251, ECO 252, HIS 111, HIS 112, HIS 131,		3					
HIS 132, POL 120, PSY 150, SOC 210 (Courses in Bold are offered at RCC.)		3					
Mathematics (3-4 credits)**		•		·			
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade			
Select one (1) course from the following:							
MAT 143 (3 credits), MAT 152 (4 credits), MAT 171 (4 credits) (Courses above are offered at RCC.)							

Natural Sciences (4 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select 4 credits from the following:				
AST 111 and AST 111A, BIO 111, CHM 151				
(Courses above are offered at RCC. For other courses		4		
that will satisfy this requirement, refer to the				
Program and Course Catalog.)				

Additional General Education (13-14 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select thirteen-fourteen (13-14) semester credits of additional courses from the preceding lists or from the following: ANT 220, BIO 112, BIO 140, BIO 140A, CHI 111, CHI 112, CHM 132, CHM 152, CIS 110, CIS 115, COM 110, DRA 111, ENG 131, ENG 241, ENG 262, FRE 111, HIS 121, HIS 122, MAT 172, MAT 271, PHY	SOC 213	3		
	SOC 220	3		
112, SPA 211, SPA 212 (Courses above are offered at RCC. For other courses				
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that will satisfy this requirement, refer to the				
Program and Course Catalog.)				
C. Other Required Hours (14 credits)*				

Pre-major and/or Elective Courses (14 credits)** Courses Credit Sem. Registered/Planned Course Sem. Completed/Grade Select a minimum of fourteen (14) semester credits PED 110 2 from general education courses listed above (section B) or from the following: ACC 120, ACC 121, ART 115, **PED 120** 1 ART 131, BIO 163, BIO 165, BIO 166, BIO 275, BUS SOC 225 3 110, BUS 115, BUS 137, CHM 251, CJC 111, CJC 141, CSC 139, EDU 216, ENG 273, HEA 120, HIS 236, PED SOC 240 3 110, PED 120, PED 121, SPA 181, SPA 182 (Courses above are offered at RCC. For other courses that will satisfy this requirement, refer to the Program and Course Catalog.)

Upon graduating with an Associate in Arts, students have the option to be dually enrolled with RichmondCC and UNCP. While dually enrolled, students can take **EDU 216** and **EDU 221** to receive credit for UNCP ELE courses.

NOTES: *All courses must be completed with a grade of "C" or better.

******See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

UNIVERSITY TRANSFER Associate in Engineering (A10500)

The Associate in Engineering (AE) degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

The degree plan includes required general education and prerequisite courses that are acceptable to all state funded Bachelor of Engineering programs. Students who follow the degree progression plan will meet the entrance requirements at all of the North Carolina public Bachelor of Science Engineering programs. Associate in Engineering graduates may then apply to any of these programs without taking additional and sometimes duplicative courses. Admission to Engineering programs is highly competitive and admission is not guaranteed.

To be eligible for the transfer of credits under the AE to the Bachelor of Science in Engineering Articulation Agreement, community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.5 on a 4.0 scale.

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.

							Work/	
					Class	Lab	Clinical	Credit
A.	Ge	eneral E	duca	tion Courses				
	1.	Englis	h Con	nposition (6 SHC)				
		ENG	111	Writing and Inquiry	3	0	0	3
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
	2.	Humar	nities ((3 SHC)				
		Select	one co	ourse from the following:				
		ENG	231	American Literature I	3	0	0	3
		ENG	232	American Literature II	3	0	0	3
		ENG	241	British Literature I	3	0	0	3
		ENG	242	British Literature II	3	0	0	3
		PHI	240	Introduction to Ethics	3	0	0	3
		REL	110	World Religions	3	0	0	3
	3.	Fine A	rts an	d Communication (3 SHC)				
		Select	one co	ourse from the following:				
		ART	111	Art Appreciation	3	0	0	3
		ART	115	Art History Survey II	3	0	0	3
		COM	231	American Literature I	3	0	0	3
		MUS	110	Music Appreciation	3	0	0	3

	4.			vioral Sciences (6 SHC)				
		Requir			0	0	0	2
		ECO	251	Principles of Microeconomics	3	0	0	3
		Select	one c	ourse from the following:				
		HIS	111	World Civilizations I	3	0	0	3
		HIS	112	World Civilizations II	3	0	0	3
		HIS	131	American History I	3	0	0	3
		HIS	132	American History II	3	0	0	3
				American Government	3	0	0	3 3
		PSY	150	General Psychology	3	0	0	3
		SOC	210	Introduction to Sociology	3	0	0	3
	5.			s (12 SHC)				
		MAT	271	Calculus I	3	2	0	4
		MAT	272	Calculus II	3	2	0	4
		MAT	273	Calculus III	3	2	0	4
	6.	Natura	l Scie	nces (12 SHC)				
		CHM	151	General Chemistry I	3	3	0	4
		PHY	251	General Physics I	3	3	0	4
		PHY	252	General Physics II	3	3	0	4
В.	Ot	her Re	quire	d Courses				
	1.	Acade	mic T	ransition (1 SHC)				
		ACA	122	College Transfer Success	0	2	0	1
	2.	Pre-ma	ajor E	lective (2 SHC)				
		EGR	150	Introduction to Engineering	1	2	0	2
	Ot	her Gen	eral E	Education and Pre-Major Elective Hours (16	SHC)			
		BIO	111	General Biology I	3	3	0	4
		CHM	152	General Chemistry II	3	3	0	4
		COM	110	Introduction to Communication	3	0	0	3
		ECO	252	Principles of Macroeconomics	3	0	0	3
		PED	110	Fitness and Wellness for Life	1	2	0	2
		Та	tal C	nodit Houng			61	

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Total Credit Hours *Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE **ENGINEERING (DAY)**

			Class	Lah	Work/ Clinical	Credit
		First Year – Fall Semester	C1455	Lau	Cinical	Creun
ACA	122	College Transfer Success	0	2	0	1
CHM	151	General Chemistry I	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
MAT	271	Calculus I	3	2	0	4
		Humanities	3	0	0	3

			12	7	0	15
		First Year – Spring Semester	•			
BIO	111	General Biology I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
ENG	112	Writing/Research in the Disciplines	3	0	0	3
MAT	272	Calculus II	3	2	0	4
			$\overline{12}$	8	0	15
		Second Year – Fall Semester				
ECO	251	Principles of Microeconomics	3	0	0	3
EGR	150	Introduction to Engineering	1	2	0	2
MAT	273	Calculus III	3	2	0	4
PED	110	Fitness and Wellness for Life	1	2	0	2
PHY	251	General Physics I	3	3	0	4
			11	9	0	15
		Second Year – Spring Semeste	er			
COM	110	Introduction to Communications	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
PHY	252	General Physics II	3	3	0	4
		Fine Arts/Communication	3	0	0	3
		Social/Behavioral Sciences	3	0	0	3
			15	3	0	16
	-					

Total Credit Hours

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Program Completion Guide **ASSOCIATE IN ENGINEERING (A10500) UNIVERSITY TRANSFER**

Student Name: ______ ID #: _____ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. College Orientation and Academic Transition (1 credit)

Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
ACA 122 College Transfer Success	ACA 122	1		

B. Universal General Education Transfer Component (42 credits)* English Composition (6 credits)**

English Composition (6 credits)***						
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade		
ENG 111 Writing and Inquiry	ENG 111	3				
ENG 112 Writing/Research in the Disciplines	ENG 112	3				

Communications and Humanities/Fine Arts (6 cred	dits)			
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Humanities (3 credits)**				
Select one (1) course from the following: ENG 231, ENG 232, ENG 241, ENG 242, PHI 215, PHI 240, REL 110*** (Courses in Bold are offered at RCC.)		3		
Fine Arts and Communications (3 credits)**				
Select one (1) course from the following: ART 111 , ART 114, ART 115 , COM 231 , MUS 110 , MUS 112 (Courses in Bold are offered at RCC.)		3		

Social/Behavioral Sciences (6 credits)** Sem. Registered/Planned Sem. Completed/Grade Courses Course Credit Take ECO 251 and select one (1) additional course ECO 251 3 from the following: HIS 111, HIS 112, HIS 131, HIS 132 POL 120, PSY 150, 3 SOC 210

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Mathematics (12 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
MAT 271 Calculus I, is the lowest level math course that will be accepted by the engineering programs for transfer as a math credit. Students who are not calculus-ready will need to take additional math	MAT 271	4		
	MAT 272	4		
courses.	MAT 273	4		

Natural Sciences (12 credits)**							
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade			
Take CHM 151, PHY 251, and PHY 252	CHM 151	4					
	PHY 251	4					
	PHY 252	4					

C. Other Required Hours (17 credits)*

Pre-major and/or Other General Education Courses (17 credits)** Courses Credit Sem. Registered/Planned Sem. Completed/Grade Course Take EGR 150 and select 15 SHC of courses from the EGR 150 2 following courses classified as pre-major, elective, or general education courses within the CAA. (Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.) Students should choose courses appropriate to the specific university and engineering major requirements. BIO 111, CHM 152, COM 110, CSC 134, CSC 151, DFT 170, ECO 252, EGR 210, EGR 212, EGR 215, EGR 216, EGR 220, EGR 225, EGR 228, HUM 110, MAT 280, MAT 285, PED 110 (Courses in Bold are offered at RCC.) NOTES:

*All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

***REL 110 will transfer for equivalency credit to the engineering programs at all five UNC institutions that offer undergraduate engineering programs. It may not transfer with equivalency to other programs.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

UNIVERSITY TRANSFER Associate in Science (A10400)

Richmond Community College offers two associate degree programs designed to allow seamless transition to four-year institutions: Associate in Arts (A.A.) and Associate in Science (AS). These programs are designed to offer students the freshman and sophomore years of a baccalaureate-track program.

The Associate in Science program is designed for students desiring a bachelor's degree and/or pre-professional training in biological, mathematical, or natural science disciplines.

The Associate in Science degree is granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the AS degree program, students have the opportunity to achieve competency in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

ACADEMIC PRE-MAJORS

Counselors and advisors can help students design a program of study. See **http://www.northcarolina.edu/?q=content/nc-community-college-transfer** for additional information.

A. UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (45 SHC)

(All courses in this component are required and will transfer for equivalency credit.)

						Work/	
				Class	Lab	Clinical	Credit
1.	Englis	h Cor	nposition (6 SHC)				
	ENG	111	Writing & Inquiry	3	0	0	3
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
2.	Comm	nunica	ations and Humanities/Fine Arts (6 SHC)	1			
	Choos	e two	(2) courses from the following from at least	two diff	^c erent d	discipline	<i>s</i> .
	ART	111	Art Appreciation	3	0	0	3
	ART	114	Art History Survey I	3	0	0	3
	ART	115	Art History Survey II	3	0	0	3
	COM	231	Public Speaking	3	0	0	3
	ENG	231	American Literature I	3	0	0	3
	ENG	232	American Literature II	3	0	0	3
	ENG	241	British Literature I	3	0	0	3
	ENG	242	British Literature II	3	0	0	3
	MUS	110	Music Appreciation	3	0	0	3
	MUS	112	Introduction to Jazz	3	0	0	3

	ווות	015		2	0	0	2
	PHI		Philosophical Issues Introduction to Ethics	3 3	0	0	3 3
2	PHI	240		3	0	0	3
3.			vioral Sciences (6 SHC)	()	1:00		. 1:
			2) courses from the following from at least t		0	it aiscif 0	
	ECO ECO		Principles of Microeconomics	3 3	0	0	3 3
	HIS	252 111	Principles of Macroeconomics World Civilizations I	3 3	0	0	3
			World Civilizations I	3 3			3
	HIS			3 3	0	0	3 3
	HIS		American History I	3 3	0	0	3 3
	HIS		American History II American Government		0	0	
	POL			3	0	0	3
			General Psychology	3 3	0	0	3 3
4	SOC Math	210	Introduction to Sociology	3	0	0	3
4.			s (8 SHC)				
			urses from the following:	2	2	0	4
	MAT		Precalculus Algebra	3	2	0	4
			Precalculus Trigonometry	3	2	0	4
			Brief Calculus	3	2	0	4
_	MAT		Calculus I	3	2	0	4
5.			ences (8 SHC)				
			oup from the following:	2	2	0	4
	BIO	111	General Biology I	3	3	0	4
	and	110		2	2	0	4
	BIO	112	General Biology II	3	3	0	4
	CUM	151	Canonal Chamisters I	3	3	0	1
	CHM	151	General Chemistry I	3	3	0	4
	and	150	Concerct Chamisters II	2	3	0	Λ
	CHM	132	General Chemistry II	3	3	0	4
	CEI	111	Caslery	2	2	0	Λ
	GEL	111	Geology	3	2	0	4
	and	110	Concentual Division	3	0	0	3
	PHY	110	Conceptual Physics	3	0	0	3
	and	110 4	Concentral Division Lab	0	2	0	1
	PHY	110A	Conceptual Physics Lab	0	2	0	1
	DUV	151	College Division I	2	2	0	4
	PHY	151	College Physics I	3	2	0	4
	and	150	Callege Division II	2	2	0	4
	PHY	152	College Physics II	3	2	0	4
	DUV	251	Conoral Physics I	2	2	0	4
	PHY	251	General Physics I	3	3	0	4
	and	252	Conoral Dhysics II	3	3	0	4
6	PHY	252	General Physics II	3	3	U	4
6.	Addit	ional C	General Education hours (11 SHC)*				

6. Additional General Education hours (11 SHC)* Select 11 semester hours of additional general education courses from the preceding

Humanities/Fine Arts, Social/Behavioral Sciences, Mathematics, and Natural Sciences or

1

any of the courses listed below. Students should select these courses based on their intended major and transfer university.

0

2

B. OTHER REQUIRED HOURS (15 SHC)

1. Academic Transition

ACA 122 College Transfer Success

2. Electives (14 SHC)**

Select a minimum of fourteen (14) semester hours. Students may take additional general education courses from the preceding general education sections or courses classified as a pre-major/and or elective course within the Comprehensive Articulation Agreement listed below. Students should select these courses based on their intended major and transfer university.

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

Total Credit Hours

60-61

0

*<u>Courses approved to meet the General Education requirement under the Comprehensive</u> Articulation Agreement.

<u>111 Heu</u>	nation				Work/	
			Class	Lab	Clinical	Credit
ANT	220	Cultural Anthropology	3	0	0	3
ASL	111	Elementary Sign Language I	3	0	0	3
ASL	112	Elementary Sign Language II	3	0	0	3
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
BIO	112	General Biology II	3	3	0	4
BIO	120	Introductory Botany	3	3	0	4
BIO	130	Introductory Zoology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	1
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
CHI	111	Elementary Chinese I	3	0	0	3
CHI	112	Elementary Chinese II	3	0	0	3
CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
CHM	132	Organic and Biochemistry	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming & Logic	2	3	0	3
COM	110	Introduction to Communication	3	0	0	3
COM	120	Interpersonal Communication	3	0	0	3
DRA	111	Theatre Appreciation	3	0	0	3
ENG	131	Introduction to Literature	3	0	0	3
ENG	233	Major American Writers	3	0	0	3
ENG	241	British Literature I	3	0	0	3

ENC	242		2	0	0	2
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GEL	120	Physical Geology	3	2	0	4
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
HUM		Critical Thinking	3	0	0	3
HUM		Cultural Studies	3	0	0	3
HUM		Southern Culture	3	0	0	3
HUM		Myth in Human Culture	3	0	0	3
HUM		American Women's Studies	3	0	0	3
HUM		Introduction to Film	2	2	0	3
HUM	211	Humanities I	3	0	0	3
HUM		Humanities II	3	0	0	3
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4
PHI	210	History of Philosophy	3	0	0	3
POL	110	Introduction to Political Science	3	0	0	3
POL	220	International Relations	3	0	0	3
PSY	237	Social Psychology	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0	0	3
REL	110	World Religions	3	0	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	3	0	0	3
REL	211	Introduction to Old Testament	3	0	0	3
REL	212	Introduction to New Testament	3	0	0	3
REL	221	Religion in America	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
SOC	225	Social Diversity	3	0	0	3
SOC	240	Social Psychology	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3
		-				

					Work/	
			Class	Lab	Clinical	Credit
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ANT	220	Cultural Anthropology	3	0	0	3
ART	111	Art Appreciation	3	0	0	3
ART	114	Art History Survey I	3	0	0	3
ART	115	Art History Survey II	3	0	0	3
ART	131	Drawing I	0	6	0	3
ASL	181	ASL Lab I	0	2	0	1
ASL	182	ASL Lab II	0	2	0	1
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
AST	151	General Astronomy I	3	0	0	3
AST	151A	2	0	2	0	1
BIO	110	Principles of Biology	3	3	0	4
BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
BIO	120	Introductory Botany	3	3	0	4
BIO	130	Introductory Zoology	3	3	0	4
BIO	140	Environmental Biology	3	0	0	3
BIO	140A	Environmental Biology Lab	0	3	0	1
BIO	163	Basic Anatomy and Physiology	4	2	0	5
BIO	165	Anatomy and Physiology I	3	3	0	4
BIO	166	Anatomy and Physiology II	3	3	0	4
BIO	275	Microbiology	3	3	0	4
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law I	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
BUS	228	Business Statistics	2	2	0	3
CHI	111	Elementary Chinese I	3	0	0	3
CHI	112	Elementary Chinese II	3	0	0	3
CHI	181	Chinese Lab I	0	2	0	1
CHI	182	Chinese Lab II	0	2	0	1
CHM		Introduction to Chemistry	3	0	0	3
CHM		Introduction to Chemistry Lab	0	3	0	1
CHM	132	Organic and Biochemistry	3	3	0	4
CHM		General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
CHM		Organic Chemistry I	3	3	0	4
CHM	252	Organic Chemistry II	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming & Logic	2	3	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3

**<u>Courses approved as pre-major and/or elective courses under the Comprehensive</u> <u>Articulation Agreement</u>.

CJC	141	Corrections	2	0	0	2
COM	141	Introduction to Communication	3 3	0	0	3 3
	120		3	0	0	3
COM	231	Interpersonal Communication Public Speaking	3		0	3
CSC	139	Visual BASIC Programming	3 2	0 3		3
		6 6			0	
CSC	151	JAVA Programming	2 3	3	0	3
DRA	111	Theatre Appreciation		0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
ENG	113	Literature-Based Research	3	0	0	3
ENG	114	Professional Research & Reporting	3	0	0	3
ENG	125	Creative Writing I	3	0	0	3
ENG	131	Introduction to Literature	3	0	0	3
ENG	231	American Literature I	3	0	0	3
ENG	232	American Literature II	3	0	0	3
ENG	233	Major American Writers	3	0	0	3
ENG	241	British Literature I	3	0	0	3
ENG	242	British Literature II	3	0	0	3
ENG	243	Major British Writers	3	0	0	3
ENG	261	World Literature I	3	0	0	3
ENG	262	World Literature II	3	0	0	3
ENG	272	Southern Literature	3	0	0	3
ENG	273	African-American Literature	3	0	0	3
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GEL	111	Geology	3	2	0	4
GEL	120	Physical Geology	3	2	0	4
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German II	3	0	0	3
HEA	110	Personal Health/Wellness	3	0	0	3
HEA	112	First Aid & CPR	1	2	0	2
HEA	120	Community Health	3	0	0	3
HIS	111	World Civilization I	3	0	0	3
HIS	112	World Civilization II	3	0	0	3
HIS	121	Western Civilization I	3	0	0	3
HIS	122	Western Civilization II	3	0	0	3
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
HIS	162	Women and History	3	0	0	3
HIS	221	African-American History	3	0	0	3
HIS	226	The Civil War	3	0	0	3
HIS	227	Native American History	3	0 0	0	3
HIS	236	North Carolina History	3	0	0	3
HUM	110	Technology and Society	3	0	0	3
110101	110	reemology and boolety	5	0	0	5

	115		0	0	0	2
		Critical Thinking	3	0	0	3
HUM	120	Cultural Studies	3	0	0	3
HUM	122	Southern Culture	3	0	0	3
HUM	130	Myth in Human Culture	3	0	0	3
HUM	150	American Women's Studies	3	0	0	3
HUM	160	Introduction to Film	2	2	0	3
HUM	211	Humanities I	3	0	0	3
HUM	212	Humanities II	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
MAT	172	Precalculus Trigonometry	3	2	0	4
MAT	263	Brief Calculus	3	2	0	4
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4
MAT	280	Linear Algebra	3	0	0	3
MAT	285	Differential Equations	3	2	0	4
MUS	110	Music Appreciation	3	0	0	3
MUS	112	Introduction to Jazz	3	0	0	3
PED	110	Fit and Well for Life	1	2	0	2
PED	120	Walking for Fitness	0	3	0	1
PED	121	Walk, Jog, Run	0	3	0	1
PED	142	Lifetime Sports	0	2	0	1
PED	210	Team Sports	0	3	0	1
PHI	210	History of Philosophy	3	0	0	3
PHI	215	Philosophical Issues	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
PHY	151	College Physics I	3	2	0	4
PHY	152	College Physics II	3	2	0	4
PHY	251	General Physics I	3	3	0	4
PHY	252	General Physics II	3	3	0	4
POL	110	Introduction to Political Science	3	0	0	3
POL	120	American Government	3	0	0	3
POL	220	International Relations	3	0	0	3
PSY	150	General Psychology	3	0 0	0	3
PSY	237	Social Psychology	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
PSY	281	Abnormal Psychology	3	0 0	0	3
REL	110	World Religions	3	0 0	0	3
REL	111	Eastern Religions	3	0	0	3
REL	112	Western Religions	3	0	0	3
REL	211	Introduction to Old Testament	3	0	0	3
REL	211	Introduction to New Testament	3	0	0	3
REL	212	Religion in America	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
500	210	introduction to bociology	5	0	0	5

SOC	213	Sociology of the Family	3	0	0	3
SOC	220	Social Problems	3	0	0	3
SOC	225	Social Diversity	3	0	0	3
SOC	240	Social Psychology	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	112	Elementary Spanish II	3	0	0	3
SPA	161	Cultural Immersion	2	3	0	3
SPA	181	Spanish Lab 1	0	2	0	1
SPA	182	Spanish Lab 2	0	2	0	1
SPA	211	Intermediate Spanish I	3	0	0	3
SPA	212	Intermediate Spanish II	3	0	0	3

Program Completion Guide **ASSOCIATE IN SCIENCE (A10400) UNIVERSITY TRANSFER**

Student Name: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. College Orientation and Academic Transition (1 credit)*

Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
ACA 122 College Transfer Success	ACA 122	1		

B. Universal General Education Transfer Component (45 credits)*

English Composition (6 credits)**										
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade						
ENG 111 Writing and Inquiry	ENG 111	3								
ENG 112 Writing/Research in the Disciplines	ENG 112	3								

Communications and Humanities/Fine Arts (6 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select two (2) courses from the following from at				
least two (2) different disciplines:		3		
ART 111, ART 114, ART 115, COM 231, ENG 231,				
ENG 232, ENG 241, ENG 242, MUS 110, MUS 112, PHI				
215, PHI 240		3		
(Courses in Bold are offered at RCC.)				

Social/Behavioral Sciences (6 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select two (2) courses from the following from at				
least two (2) different disciplines:		3		
ECO 251, ECO 252, HIS 111, HIS 112, HIS 131, HIS 132				
POL 120, PSY 150, SOC 210		3		
(Courses in Bold are offered at RCC.)		0		

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Mathematics (8 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select two (2) courses from the following: MAT 171, MAT 172, MAT 263, MAT 271		4		
(Courses in Bold are offered at RCC.)		4		

Natural Sciences (8 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select one (1) set of courses from the following:				
BIO 111 and BIO 112; CHM 151 and CHM 152;		4		
GEL 111 and PHY 110/110A; PHY 151 and PHY 152;		-		
PHY 251 and PHY 252				
(Courses above are offered at RCC. For other courses				
that will satisfy this requirement, refer to the		4		
Program and Course Catalog.)				

Additional General Education hours (11 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select eleven (11) semester credit hours of additional				
courses from the preceding lists or from the				
following:				
ANT 220, ASL 111, ASL 112, AST 111, AST 111A, BIO				
140, BIO 140A, CHI 111, CHI 112, CHM 132, CIS 110,				
CIS 115, COM 110, DRA 111, ENG 131, ENG 241, ENG				
262, HIS 121, HIS 122, PSY 241, PSY 281, REL 110, REL				
211, REL 212, REL 221, SOC 213, SPA 111, SPA 112,				
SPA 211, SPA 212				
(Courses above are offered at RCC. For other courses				
that will satisfy this requirement, refer to the				
Program and Course Catalog.)				

C. Other Required Hours (14 credits)* Pre-maior and/or Elective Courses (14 credits)**

Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select a minimum of fourteen (14) semester credit				
hours from general education courses listed above				
(section B) or from the following:				
ACC 120, ACC 121, ART 131, ASL 181, ASL 182, BIO				
163, BIO 165, BIO 166, BIO 275, BUS 110, BUS 115,				
BUS 137, CHM 251, CJC 111, CJC 141, CSC 139, ENG				
273, HEA 120, HIS 236, PED 110, PED 120, PED 121				
(Courses above are offered at RCC. For other courses				
that will satisfy this requirement, refer to the				
Program and Course Catalog.)				

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

UNIVERSITY TRANSFER

Associate in Science – Pre-Medical Professional Pathway (A10400)

RichmondCC has created a Pre-Medical Professional Pathway in an effort to outline a specific pathway for students to obtain an Associate in Science degree that also meets a majority of the prerequisite coursework requirements for admission to most US Medical Schools. Students can major in anything they like to prepare for medical school. Medical schools do not require, or even prefer, a certain undergraduate major. It is recommended that you check with specific schools to see if they require any additional coursework to be eligible for admission.

Some schools are not yet specifically requiring Biochemistry and Statistics. However, students will need to take these courses to be successful on the MCAT because it contains material from those courses.

Students seeking entry into Medical School will meet a majority of prerequisite course requirements for application by completing this Associate in Science Degree – Pre-Medical Professional Pathway. Additionally, this curriculum adheres to the North Carolina Community College System guidelines for an Associate in Science degree. Admission into a US Medical School requires a bachelor degree, the Associate of Science degree can be used to transfer to a bachelor degree program.

Program Completion Guide ASSOCIATE IN SCIENCE (A10400) **UNIVERSITY TRANSFER Pre-Medical Professional Pathway**

Student Name: ___

_____ ID #: _____ Date of Enrollment: _____

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

D. College Orientation and Academic Transition (1 credit)*

Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
ACA 122 College Transfer Success	ACA 122	1		

Universal General Education Transfer Component (45 credits)* Ε.

English Composition (6 credits)**					
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade	
ENG 111 Writing and Inquiry	ENG 111	3			
ENG 112 Writing/Research in the Disciplines	ENG 112	3			

Communications and Humanities/Fine Arts (6 credits)** Sem. Registered/Planned Sem. Completed/Grade Courses Course Credit Select two (2) courses from the following from at least two (2) different disciplines: 3 ART 111, ART 114, ART 115, COM 231, ENG 231, ENG 232, ENG 241, ENG 242, MUS 110, MUS 112, PHI 215, PHI 240 3 (Courses in Bold are offered at RCC.)

Social/Behavioral Sciences (6 credits)**				
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select two (2) courses from the following from at least two (2) different disciplines: ECO 251, ECO 252, HIS 111, HIS 112, HIS 131, HIS 132	PSY 150	3		
POL 120, PSY 150, SOC 210 (Courses in Bold are offered at RCC.)	SOC 210	3		

Mathematics (8 credits)**

	Ρ	а	g	е	55
--	---	---	---	---	----

Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade
Select two (2) courses from the following: MAT 171, MAT 172, MAT 263, MAT 271	MAT 171	4		
(Courses in Bold are offered at RCC.)	MAT 172	4		

Natural Sciences (8 credits)**							
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade			
Select one (1) set of courses from the following: BIO 111 and BIO 112; CHM 151 and CHM 152; GEL 111 and PHY 110/110A; PHY 151 and PHY 152; PHY 251 and PHY 252	CHM 151	4					
(Courses above are offered at RCC. For other courses that will satisfy this requirement, refer to the Program and Course Catalog.)	CHM 152	4					

Additional General Education hours (11 credits)**						
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade		
Select eleven (11) semester credit hours of additional courses from the preceding lists or from the	BIO 111	4				
following: ANT 220, ASL 111, ASL 112, AST 111, AST 111A, BIO 140, BIO 140A, CHI 111, CHI 112, CHM 132, CIS 110,	BIO 112	4				
CIS 115, COM 110, DRA 111, ENG 131, ENG 241, ENG 262, HIS 121, HIS 122, PSY 241, PSY 281, REL 110, REL	MAT 152	4				
211, REL 212, REL 221, SOC 213, SPA 111, SPA 112, SPA 211, SPA 212						
(Courses above are offered at RCC. For other courses that will satisfy this requirement, refer to the Program and Course Catalog.)						
F. Other Required Hours (14 credits)*						

Pre-major and/or Elective Courses (14 credits)**						
Courses	Course	Credit	Sem. Registered/Planned	Sem. Completed/Grade		
Select a minimum of fourteen (14) semester credit hours from general education courses listed above	MAT 271	4				
(section B) or from the following: ACC 120, ACC 121, ART 131, ASL 181, ASL 182, BIO	PHY 151	4				
163, BIO 165, BIO 166, BIO 275, BUS 110, BUS 115, BUS 137, CHM 251, CJC 111, CJC 141, CSC 139, ENG	PHY 152	4				
273, HEA 120, HIS 236, PED 110, PED 120, PED 121 (Courses above are offered at RCC. For other courses	PED 110	2				
that will satisfy this requirement, refer to the Program and Course Catalog.)						

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

UNIVERSITY TRANSFER - ASSOCIATE IN SCIENCE RCC - N.C. State University Poultry Science (A10400P)

An articulation agreement between N.C. State University and Richmond Community College guarantees students who have successfully completed selected courses in RCC's Associate in Science program admission into N.C. State University's Bachelor of Science in Poultry Science Technology curriculum as juniors. RCC advisors will assist students in selecting courses which will transfer. Graduates must have a minimum cumulative grade point average of 3.0 at RCC to be eligible to transfer.

Contact the Student Services Department to speak with an advisor. Below is a suggested schedule.

					Work/	
			Class	LabC	linical (Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
ACC	120	Principles of Financial Acct	3	2	0	4
BIO	111	General Biology I	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
		-				
			12	9	0	16
		First Year – Spring Semester	ſ			
BIO	112	General Biology II	3	3	0	4
ECO	252	Principles of Macroeconomics	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
HIS		History Elective*	3	0	0	3
MAT	172	Precalculus Trigonometry	3	2	0	4
						_
			15	5	0	17
		Second Year – Fall Semester	•			
AST/B	IO/CH	M/PHY Science Elective**	3	2-3	0	4
CHM	151	General Chemistry I	3	3	0	4
ENG		Literature Elective+	3	0	0	3
MAT	271	Calculus I	3	2	0	4
			—		—	—
			12	7-8	0	15
		Second Year – Spring Semester	er			
BIO	275	Microbiology	3	3	0	4
CHM	132	Organic and Biochemistry	3	3	0	4
COM		Communication Elective++	3	0	0	3
		Humanities/Fine Arts***	3	0	0	3
		Social/Behavioral Science***	3	0	0	3
	-	a	15	6	0	17
	Total	Credit Hours			65	

*History Electives

HIS	111 or 112	World Civilizations I or II
HIS	121 or 122	Western Civilization I or II
HIS	131 or 132	American History I or II

+Literature Electives

ENG	131	Introduction to Literature
ENG	231 or 232	American Literature I or II
ENG	233	Major American Writers
ENG	241 or 242	British Literature I or II
ENG	243	Major British Writers
ENG	261 or 262	World Literature I or II

****Science Electives**

AST	111/A	Descriptive Astronomy and Lab
BIO	140/A	Environmental Biology and Lab
BIO	165	Anatomy and Physiology I
CHM	152	General Chemistry II
PHY	110/A	Conceptual Physics and Lab
PHY	151	College Physics I
PHY	251	General Physics I

++Communication Electives

COM 120 Interpersonal Communication

COM 231 Public Speaking

***Humanities/Fine Arts and Social/Behavioral Science

Select any course without a COM or ENG prefix from the Associate in Science Humanities/Fine Arts electives listed in the previous section for the Humanities/Fine Arts elective. Select any course without an ECO or HIS prefix from the Associate in Science Social Sciences electives listed in the previous section for the Social/Behavioral Science elective.

UNIVERSITY TRANSFER - ASSOCIATE IN SCIENCE RCC – Wingate University Pre-Pharmacy Pathway (A10400W)

Students seeking entry into the Wingate University School of Pharmacy will meet all prerequisite course requirements for application by completing this Associate in Science Degree -Pre-Pharmacy Pathway. Additionally, this curriculum adheres to the North Carolina Community College System guidelines for an Associate in Science degree. If a student is not admitted to the Wingate University School of Pharmacy, the Associate of Science degree can also be used to transfer to a Bachelor's degree program.

Completion of the Associate of Science degree does not guarantee admission to the Wingate University School of Pharmacy. Program completion through this partnership ensures that prerequisites have been met; however, the following are additional criteria for admission to the School of Pharmacy:

- minimum 3.0 GPA in prerequisite courses (average GPA for accepted Wingate Pharmacy students is 3.5)
- earn a competitive composite score on the Pharmacy College Admissions Test (PCAT)
- complete an application through PharmCAS
- complete the Wingate University School of Pharmacy supplemental application
- complete the interview process
- complete criminal background check

All pharmacy prerequisites must be completed by the end of spring semester of the year in which pharmacy school enrollment is requested. Admission decisions will be made upon consideration of the course work completed by December 31 of the year prior to prospective matriculation. It is acknowledged that several requirements may be in-progress during the spring semester prior to matriculation into the School of Pharmacy. The grades for in-progress courses will not be taken into account in determination of pre-pharmacy grade point averages.

The Wingate University School of Pharmacy requires that science and communications courses be taken in a seated classroom setting. Science courses taken more than 5 years prior to one's desired enrollment date may not be accepted.

Take a Virtual Tour of the Wingate University School of Pharmacy at **http://pharmacy.wingate.edu**. Additional information about Wingate University's School of Pharmacy and application process can be found at **http://pharmacy.wingate.edu/admissions**. RCC's Pathway correlation to course requirements can be viewed below.

The Wingate University School of Pharmacy and Richmond Community College have agreed to partner in an effort to outline a specific pathway for students to obtain an Associate in Science degree that also meets the prerequisite coursework requirements for application to the Wingate University School of Pharmacy. The following are the details of the pathway curriculum.

						Work/	
				Class	Lab	Clinica	l Credit
1.	Englis	sh Cor	nposition (6 SHC)				
	ENG	111	Writing & Inquiry	3	0	0	3 3
	ENG	112	Writing/Research in the Disciplines**	3	0	0	3
2.			(3 SHC)**				
			course from the following:				
	ENG	231	American Literature I	3	0	0	3
	ENG	232	American Literature II	3	0	0	3 3 3
	ENG		World Literature I	3	0	0	3
	ENG		World Literature II	3	0	0	3
3.			ations (3 SHC)*				
	COM		Public Speaking	3	0	0	3
4.			/Fine Arts (3 SHC)				
			course from the following:	-			
	REL	211	Introduction to Old Testament	3	0	0	3
	REL	212	Introduction to New Testament	3	0	0	3 3 3
_	SPA	111	Elementary Spanish I	3	0	0	3
5.	Histor	•	·				
			course from the following:	•	0	0	2
	HIS	112	World Civilizations II	3	0	0	3
	HIS	132	American History II	3	0	0	3
6.			vioral Sciences (3 SHC)				
			course from the following:	•	0	0	2
	PSY	150	General Psychology	3	0	0	3 3 3
	SOC	210	Introduction to Sociology	3	0	0	3
_	SOC	213	Sociology of the Family	3	0	0	3
7.			History, Humanities, Social Behavioral S	science (.	3 SHC		
0			course from above not taken previously.				
8.			(3 SHC)				
			course from the following:	2	0	0	2
			Principles of Microeconomics	3	0	0	3
Δ	ECO Math		Principles of Macroeconomics	3	0	0	3
9.			es (8 SHC) Statistical Methods I	2	2	0	4
	MAT MAT		Calculus I	3 3	2 2	0 0	4 4
10				3	Z	0	4
10.	BIO	al Sci 111	ences (33-36 SHC)* General Biology I	3	3	0	4
	BIO	163		3 4	5 2	0	4 5
		105	Basic Anatomy and Physiology	4	L	U	5
	or BIO	165	Anatomy and Physiology I	3	3	0	4
	DIO	105	Anatomy and Enystology 1	3	3	U	4

and						
BIO	166	Anatomy and Physiology II	3	3	0	4
BIO	275	Microbiology	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
CHM	251	Organic Chemistry I	3	3	0	4
CHM	252	Organic Chemistry II	3	3	0	4
PHY	151	College Physics I	3	2	0	4
or						
PHY	251	General Physics I	3	3	0	4
11. Other	Requi	red RCC hours (1 SHC)				
ACA	122	College Transfer Success	0	2	0	1

*Science and communications courses must be taken in a seated classroom setting. Science courses taken more than five (5) years prior to one's desired enrollment date may not be accepted. **The higher grade will be used in calculating the GPA for the application to Wingate's School of Pharmacy.

Total Credit Hours

69-72

Program Completion Guide ASSOCIATE IN SCIENCE (A10400W) Wingate University – Pre-Pharmacy Pathway

Student Name: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. College Orientation and Academic Transition (1 credit hour)

Courses	Credit Hrs	Semester Registered/Planned	Semester Completed/Grade
ACA 122 College Transfer Success			

B. Universal General Education Transfer Component (45 credit hours)*

English Composition (6 credits hours)**							
Courses	Credit Hrs	Semester Registered/Planned	Semester Completed/Grade				
ENG 111 Writing and Inquiry							
ENG 112 Writing/Research in the Disciplines							

Communications and Humanities/Fine Arts (6 credit hours) **						
Courses	Course/Cr. Hrs.	Semester Registered/Planned	Semester Completed/Grade			
COM 231 Public Speaking						
Select one of the following: ENG 231 or ENG 232						

Social/Behavioral Sciences (6 credit hours) **	k		
Courses	Course/Cr. Hrs	Semester Registered/Planned	Semester Completed/Grade
Select one of the following: HIS 111 or HIS 112			
Select one of the following: PSY 150, SOC 210, SOC 213			

Mathematics (8 credit hours) **			
Courses	Course/Cr. Hrs.	Semester Registered/Planned	Semester Completed/Grade

62 Page		
Select two (2) courses from the following:		
MAT 171, MAT 172, MAT 263, MAT 271		
(Courses in bold are offered at RCC.)		

Natural Sciences (8 credit hours) **					
Courses	Course/Cr. Hrs.	Semester Registered/Planned	Semester Completed/Grade		
Select two (2) courses from the following:					
AST 111 and AST 111A, BIO 110, BIO 111 and BIO 112,					
CHM 151 and CHM 152, GEL 111, PHY 110 and PHY					
110A, PHY 151 and PHY 152, PHY 251 and PHY 252					
(Courses in bold are offered at RCC.)					

Additional General Education (11 credit hours)**					
Courses	Course/Cr. Hrs.	Semester Registered/Planned	Semester Completed/Grade		
Humanities/Fine Arts elective:					
Select one course: REL 211, REL 212, SPA 111					

C. Other Required Hours (14 credit hours)*

Pre-major and/or Elective Courses (14 credit hours)**						
Courses	Course/Cr. Hrs.	Semester Registered/Planned	Semester Completed/Grade			
Select a minimum of fourteen (14) semester credit						
hours from general education course listed above						
(section B) or from the following:						
ACC 120, ACC 121, ART 131, BIO 163, BIO 165, BIO						
166, BIO 275, BUS 110, BUS 115, BUS 137, CHM 251,						
CJC 111, CJC 141, CSC 139, EDU 216, ENG 273, HIS						
236, PED 110, PED 120, SPA 181, SPA 182						
(Courses above are offered at RCC. For other courses						
that will satisfy this requirement, refer to the Program						
and Course Catalog.)						

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

-

Associate in Applied **Science** Degrees, **Diplomas and** Certificates

ACCOUNTING SPECIALIST Accounting (A25100)

The Accounting curriculum is designed to provide students with the knowledge and skills necessary for employment and growth in the accounting profession. Using the "language of business," accountants assemble and analyze, process and communicate essential information about financial operations.

In addition to course work in accounting principles, theories, and practice, students will study business law, finance, management, and economics. Related skills are developed through the study of communications, computer applications, financial analysis, critical thinking skills, and ethics.

Graduates should qualify for entry-level accounting positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies. With work experience and additional education, an individual may advance in the accounting profession.

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.

	Work/					
			Class	Lab	Clinical	Credit
A. Genera	l Educ	ation Courses				
1. Requi	red Co	urses				
COM	231	Public Speaking	3	0	0	3
or						
ENG	112	Writing/Research in the Disciplines	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
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
B. Major	Course	es				
1. Core C	Courses	S				
To rec	ceive a	degree, diploma or certificate from RCC, a	a student i	nust h	ave a gro	ade of "C"
or bet	ter in a	all core courses for the program of study.				
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ACC	129	Individual Income Taxes	2	2	0	3
ACC	220	Intermediate Accounting I	3	2	0	4
BUS	115	Business Law I	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
2. Other	Maior	Courses				

2. Other Major Courses

ACC	122	Principles of Financial Accounting II	3	0	0	3
ACC	130	Business Income Taxes	2	2	0	3
ACC	150	Accounting Software Applications	1	2	0	2
ACC	221	Intermediate Accounting II	3	2	0	4
ACC	225	Cost Accounting	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
CTS	130	Spreadsheets	2	2	0	3
WBL	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Learning Seminar	1	0	0	1
		Business Elective**	2-3	0-3	0	2-4
Other R	equire	ed Courses				
ACA	122	College Transfer Success	0	2	0	1

Total Credit Hours

C.

65-67

*Approved Electives are listed on the page before the Course Descriptions.

**Business elective may be selected from the following courses:

Dub		centre may be selected from the following courses.				
ACC	111	Financial Accounting	3	0	0	3
ACC	115	College Accounting	3	2	0	4
BUS	110	Introduction to Business	3	0	0	3
BUS	116	Business Law II	3	0	0	3
BUS	121	Business Mathematics	2	2	0	3
BUS	125	Personal Finance	3	0	0	3
BUS	153	Human Resource Management	3	0	0	3
BUS	228	Business Statistics	2	2	0	3
BUS	230	Small Business Management	3	0	0	3
BUS	260	Business Communication	3	0	0	3
BUS	261	Diversity in Management	3	0	0	3
DBA	110	Database Concepts	2	3	0	3
INT	110	International Business	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
MKT	224	International Marketing	3	0	0	3
MKT	228	Service Marketing	3	0	0	3
OST	122	Office Computations	1	2	0	2
OST	286	Professional Development	3	0	0	3
PAD	152	Ethics in Government	3	0	0	3
PAD	251	Public Finance and Budgeting	3	0	0	3
PAD	252	Public Policy and Analysis	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
Note	Only 3	SHC of SPA are allowed towards the Δ counting d	earee			

Note: Only 3 SHC of SPA are allowed towards the Accounting degree.

SEMESTER SCHEDULE ACCOUNTING SPECIALIST (DAY)

		ACCOUNTING SPECIALIST (I	JAY)		Work/	,
			Class	Lab		l Credit
		First Year – Fall Semester	Clubb	240	cinicu	
ACA	122	College Transfer Success	0	2	0	1
ACC	120	Principles of Financial Accounting	3	2	0	4
CIS	110	Introduction to Computers	2	$\frac{1}{2}$	0	3
ECO	252	Principles of Macroeconomics	3	$\overline{0}$	0	
ENG	111	Writing and Inquiry	3	0	0	3 3
MAT	143	Quantitative Literacy	2	2	0	3
	1.0	2	_	_		
			13	8	0	17
		First Year – Spring Semester	•			
ACC	122	Principles of Financial Accounting II	3	0	0	3
ACC	129	Individual Income Taxes	2	2	0	3
ACC	150	Accounting Software Applications	1	2	0	2
CTS	130	Spreadsheets	2	2	0	2 3
ECO	251	Principles of Microeconomics	3	0	0	3
		1 I				
			11	6	0	14
		First Year – Summer Semeste				
COM or	231	Public Speaking	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
Live	112	Business Elective**	2-3	0-3	0	2-4
		Humanities/Fine Arts Elective*	3	0	0	3
			8-9	0-3	0	8-10
		Second Year – Fall Semester				
ACC	121	Principles of Managerial Accounting	3	2	0	4
ACC	130	Business Income Taxes	2	2	0	3
ACC	220	Intermediate Accounting I	3	2	0	4
BUS	115	Business Law I	3	0	0	3
			11	6	0	14
100	001	Second Year – Spring Semeste		2	0	4
ACC	221	Intermediate Accounting II	3	2	0	4
ACC	225	Cost Accounting	3	0	0	3 3
BUS	137	Principles of Management	3	0	0	
WBL	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Learning Seminar	1	0	0	1
			10	2	10	12
	To	tal Credit Hours			65-	67

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE ACCOUNTING SPECIALIST (EVENING)

	ACCOUNTING SPECIALIST (EV)	LINING)	Work/	
		Class	Lah	Clinical	Crodit
	First Year – Fall Semester	C1455	Lau	Chinca	Cituit
ACA 122	College Transfer Success	0	2	0	1
ACC 120	Principles of Financial Accounting	3	$\frac{2}{2}$	0	4
CIS 110	Introduction to Computers	2	$\frac{2}{2}$	0	3
ENG 111	Writing and Inquiry	3	$\tilde{0}$	0	3
MAT 143	Quantitative Literacy	2	2	0	3
141111-1-5	Quantitative Elicitacy				
		10	8	0	14
	First Year – Spring Semester	r			
ACC 121	Principles of Managerial Accounting	3	2	0	4
ACC 122	Principles of Financial Accounting II	3	0	0	3
CTS 130	Spreadsheets	2	2	0	3
COM 231	Public Speaking	3	0	0	3
or					
ENG 112	Writing/Research in the Disciplines	3	0	0	3
		11	4	0	13
	First Year – Summer Semeste	er			
ACC 150	Accounting Software Applications	1	2	0	2
ACC 225	Cost Accounting	3	0	0	3
ECO 251	Principles of Microeconomics	3	0	0	3
	Business Elective**	2-3	0-3	0	2-4
	Humanities/Fine Arts Elective*	3	0	0	3
		12-13	2-5	0	13-15
100	Second Year – Fall Semester		•	0	2
ACC 129	Individual Income Taxes	2	2	0	3
ACC 220	Intermediate Accounting I	3	2	0	4
BUS 137	Principles of Management	3	0	0	3
ECO 252	Principles of Macroeconomics	3	0	0	3
		11	4	0	13
	Second Year – Spring Semest		4	0	15
ACC 130	Business Income Taxes	2	2	0	3
ACC 130 ACC 221	Intermediate Accounting II	3	$\frac{2}{2}$	0	4
BUS 115	Business Law I	3	$\overset{2}{0}$	0	4
WBL 111	Work-Based Learning I	0	0	10	3 1
WBL 111 WBL 115	Work-Based Learning Seminar	1	0	0	1
	work-Dasca Learning Schillar	1		<u> </u>	1
		9	4	10	12
		,		10	1 //

Total Credit Hours

65-67

*Approved Electives are listed on the page before the Course Descriptions.

ACCOUNTING SPECIALIST (CERTIFICATE) (C25100A) COURSE REQUIREMENTS

					Work/	
			Class	Lab	Clinical	Credit
ACA	122	College Transfer Success	0	2	0	1
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
CIS	110	Introduction to Computers	2	2	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
or						
ECO	252	Principles of Macroeconomics	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
	То	tal Credit Hours			18	

ACCOUNTING/BOOKKEEPER (CERTIFICATE) (C25100B) COURSE REQUIREMENTS

					Work/	
			Class	Lab	Clinical	Credit
ACA	122	College Transfer Success	0	2	0	1
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	122	Principles of Financial Accounting II	3	0	0	3
ACC	150	Accounting Software Applications	1	2	0	2
CIS	110	Introduction to Computers	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
OST	122	Office Computations	1	2	0	2
		-				

Total Credit Hours

18

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE – ACCOUNTING (A25100) **Accounting Specialist**

Student Name: ______ ID #: _____ Date of Enrollment: _____

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

Accounting Certificate (C25100A) Course Requirements: 18 credit hours: Complete Sections I (as required) and Section II, A. Α.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	(D, E) 1 st year – fall	None		
ACC 120 Principles of Financial Accounting*	4	(D, E) 1 st year – fall	Pre: DMA 010-040 or MAT 070, DRE 098 or RED 090		
CIS 110 Introduction to Computers*	3	(D, E) 1 st year – fall	Pre: DRE 097 Co: DRE 098		
MAT 143 Quantitative Literacy	3	(D, E) 1 st year – fall	Pre: DMA 010-050, DRE 098 Co: ACA 122		
ACC 121 Principles of Managerial Accounting* (course not required for Bookkeeper certificate)	4	(D) 2 nd year – fall (E) 1 st year - spring	Pre: ACC 120 with minimum grade of "C"		
ECO 251 Principles of Microeconomics* (course not required for Bookkeeper certificate) or	3	(D) 1 st year – spring (E) 1 st year – summer	Pre: DMA 010-020 or MAT 060, DRE 097 or RED 090 Co: DRE 098		
ECO 252 Principles of Macroeconomics (course not required for Bookkeeper certificate) BOTH COURSES ARE REQUIRED FOR THE DEGREE	3	(D) 1 st year – fall (E) 2 nd year – fall	Pre: DMA 010-020 or MAT 060, DRE 097 or RED 090 Co: DRE 098		

B. Bookkeeper Certificate (C25100B) Course Requirements: 18 credit hours: Complete Sections I (as required) and Section II, A, and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
Courses	u.	Semester	Corequisites	Planned	Grade
OST 122 Office Computations (meets Business Elective requirement for degree)	2	1 st year – fall	None		
ACC 122 Principles of Financial Accounting II	3	(D, E) 1 st year – spring	Pre: ACC 120 with minimum grade of "C"		
ACC 150 Accounting Software Applications	2	 (D) 1st year – spring (E) 1st year – summer 	Pre: ACC 115 or ACC 120, CIS 110		

C. Accounting Associate in Applied Science Degree (A25100) Course Requirements 65-67 credit hours: Complete Sections I (as required) and Section II, A, B, and C.

				Semester	Semester
		Recommended	Prerequisites/	Registered/	Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ENG 111 Writing and Inquiry	3	(D,E) 1 st year – fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		

ACC 129 Individual Income Taxes*	3	(D)1 st year – spring (E) 2 nd year– fall	Pre: DMA 010-040 or MAT 070, DRE 098 or RED 090
COM 231 Public Speaking	3	(D) 1 st year – summer (E) 1 st year - spring	Pre: DRE 098 or ENG 090 and RED 090
or ENG 112 Writing/Research in the Disc	3	(D) 1 st year – summer (E) 1 st year - spring	Pre: ENG 111
ACC 130 Business Income Taxes	3	(D) 2 nd year – fall (E) 2 nd year -spring	Pre: ACC 120 with minimum grade of "C"
CTS 130 Spreadsheets	3	(D, E) 1 st year – spring	Pre: DMA 010-040 Co: DRE 097
ACC 220 Intermediate Accounting I*	4	(D,E) 2 nd year – fall	Pre: ACC 120 and ACC 121 or ACC 122 with minimum grade of "C"
BUS 115 Business Law I*	3	 (D) 2nd year – fall (E) 2nd year – spring 	Pre: DRE 097 Co: DRE 098
WBL 111 Work-Based Learning I	1	(D, E) 2 nd year – spring	Pre: 9 SHC in Core Major Courses Co: WBL 115
WBL 115 Work-Based Learning Seminar	1	(D,E) 2 nd year – spring	Pre: 9 SHC in Core Major Courses Co: WBL 111 or WBL 112
ACC 221 Intermediate Accounting II	4	(D, E) 2 nd year – spring	Pre: ACC 220 with a minimum grade of a "C"
ACC 225 Cost Accounting	3	 (D) 2nd year – spring (E) 1st year – summer 	Pre: ACC 121 with a minimum grade of a "C"
BUS 137 Principles of Management	3	 (D) 2nd year – spring (E) 2nd year – fall 	Pre: DRE 098 or ENG 090 and RED 090

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts elective from list below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).

Courses offered at I	RCC:
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ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	(D, E) 1 st year – summer		

Business Elective (2-4 credits)**

ACC 111, ACC 115, BUS 110, BUS 116 BUS 121, BUS 125,BUS 153,BUS 228, BUS 230,BUS 260,BUS 261, DBA 110, INT 110, MKT 120, MKT 221, MKT 223, MKT 224, MKT 228, OST 122, OST 286, PAD 152, PAD 251, PAD 252, SPA 111*, SPA 120*

*Note: Only 3 SHC of SPA are allowed towards the Accounting degree

I	Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
		(D, E) 1st year – summer		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:
Student Name:	_ Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:
Student Name:	Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:
Student Name:	Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:

ACCOUNTING SPECIALIST (ONLINE) (A25100) 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. General Education Courses							
1. Requi			•	0	0			
COM	231	Public Speaking	3	0	0	3		
or			-					
	112	Writing/Research in the Disciplines	3	0	0	3		
	252	Principles of Macroeconomics	3	0	0	3		
	111	Writing and Inquiry	3	0	0	3		
MAT	143	Quantitative Literacy	2	2	0	3		
		Humanities/Fine Arts Elective***	3	0	0	3		
B. Major (
1. Core C								
To rec	eive a	degree, diploma or certificate from RCC, a	a student i	nust h	ave a gra	ide of "C"		
or bett	ter in a	ll core courses for the program of study.						
ACC	120	Principles of Financial Accounting	3	2	0	4		
ACC	121	Principles of Managerial Accounting	3	2	0	4		
ACC	129	Individual Income Taxes	2	2	0	3		
ACC	220	Intermediate Accounting I	3	2	0	4		
BUS	115	Business Law I	3	0	0	3		
CIS	110	Introduction to Computers	2	2	0	3		
ECO	251	Principles of Microeconomics	3	0	0	3		
2. Other	Major	Courses						
ACC	122	Principles of Financial Accounting II	3	0	0	3		
ACC	130	Business Income Taxes	2	2	0	3		
ACC	150	Accounting Software Applications	1	2	0	2		
ACC	221	Intermediate Accounting II	3	2	0	4		
ACC	225	Cost Accounting	3	0	0	3		
BUS	137	Principles of Management	3	0	0	3		
CTS	130	Spreadsheets	2	2	0	3		
WBL	111	Work-Based Learning I	0	0	10	1		
WBL	115	Work-Based Learning Seminar	1	Õ	0	1		
		Business Elective***	2-3	0-3	0 0	2-4		
C. Other F	Require				3			
ACA	122	College Transfer Success	0	2	0	1		
			v	-	3	-		

Total Credit Hours

65-67

***Approved Electives offered online:

Humanities/Fine Arts Electives are: ART 111, ENG 231, ENG 232, MUS 110, PHI 240

Business Elective may be selected from the following courses:							
BUS	110	Introduction to Business	3	0	0	3	
BUS	121	Business Mathematics	2	2	0	3	
BUS	125	Personal Finance	3	0	0	3	
BUS	153	Human Resource Management	3	0	0	3	
BUS	230	Small Business Management	3	0	0	3	
DBA	110	Database Concepts	2	3	0	3	
MKT	120	Principles of Marketing	3	0	0	3	
PAD	152	Ethics in Government	3	0	0	3	
PAD	251	Public Finance and Budgeting	3	0	0	3	
PAD	252	Public Policy and Analysis	3	0	0	3	
SPA	111	Elementary Spanish I	3	0	0	3	

Note: Only 3 SHC of SPA are allowed towards the Accounting degree.

SEMESTER SCHEDULE ACCOUNTING SPECIALIST (ONLINE)

	ACCOUNTING SPECIALIST (UNLINE)								
				Work/					
			Class	Lab	Clinical	Credit			
	First Year – Fall Semester								
ACA	122	College Transfer Success	0	2	0	1			
ACC	120	Principles of Financial Accounting	3	2	0	4			
CIS	110	Introduction to Computers	2	2	0	3			
ECO	252	Principles of Macroeconomics	3	0	0				
ENG	111	Writing and Inquiry	3	0	0	3 3			
MAT	143	Quantitative Literacy	2	2	0	3			
					_				
			13	8	0	17			
		First Year – Spring Semester	•						
ACC	121	Principles of Managerial Accounting	3	2	0	4			
ACC	122	Principles of Financial Accounting II	3	0	0	3			
ACC	150	Accounting Software Applications	1	2	0	2			
COM	231	Public Speaking	3	0	0	3			
or									
ENG	112	Writing/Research in the Disciplines	3	0	0	3			
CTS	130	Spreadsheets	2	2	0	3 3			
ECO	251	Principles of Microeconomics	3	0	0	3			
		-							
			15	6	0	18			
Second Year – Fall Semester									
ACC	129	Individual Income Taxes	2	2	0	3			
ACC	220	Intermediate Accounting I	3	2	0	4			
BUS	115	Business Law I	3	0	0	3			
BUS	137	Principles of Management	3	0	0	3			
		Business Elective***	2-3	0-3	0	2-4			
Wards/

			13-15	4-7	0	15-17
		Second Year – Spring Semest	ter			
ACC	130	Business Income Taxes	2	2	0	3
ACC	221	Intermediate Accounting II	3	2	0	4
ACC	225	Cost Accounting	3	0	0	3
WBL	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Learning Seminar	1	0	0	1
		Humanities/Fine Arts Elective***	3	0	0	3
			—			
			12	4	10	15
Total Credit Hours					65-	67

***Approved Electives offered online:

Business Electives are: BUS 110, BUS 121, BUS 125, BUS 153, BUS 230, DBA 110, MKT 120, PAD 152, PAD 251, PAD 252, SPA 111

Humanities/Fine Arts Electives are: ART 111, ENG 231, ENG 232, MUS 110, PHI 240

ACCOUNTING SPECIALIST (CERTIFICATE) (C25100A) (ONLINE) COURSE REQUIREMENTS

			Work/			
			Class	Lab	Clinical	Credit
ACA	122	College Transfer Success	0	2	0	1
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
CIS	110	Introduction to Computers	2	2	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
or						
ECO	252	Principles of Macroeconomics	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
	То	tal Credit Hours			18	

Students enrolled in WBL 111 and WBL 115, who reside outside of Richmond county and Scotland county North Carolina will need to work under an active, licensed CPA or at an instructor approved location.

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, ACC 121, ART 111, BUS 110, BUS 115, BUS 137, CIS 110, COM 231, 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.

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - ACCOUNTING (A25100) (ONLINE) Accounting Specialist

Student Name:	ID #:	Catalog:
Advisor Name:	Contact Information:	

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

Accounting Associate in Applied Science Degree ONLINE (A25100) Course Requirements 66 credit hours.**

		Recommended	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Planned	Grade
ACA 122 College Transfer Success	1	1 st year - fall		
ACC 120 Principles of Financial Accounting*	4	1 st year - fall		
CIS 110 Introduction to Computers*	3	1 st year - fall		
ECO 252 Principles of Macroeconomics	3	1 st year - fall		
ENG 111 Writing and Inquiry	3	1 st year - fall		
MAT 143 Quantitative Literacy	3	1 st year - fall		
ACC 121 Principles of Managerial Accounting*	4	1 st year - spring		
ACC 122 Principles of Financial Accounting II	3	1 st year - spring		
ACC 150 Accounting Software Applications	2	1 st year - spring		
COM 231 Public Speaking or ENG 112 Writing/Research in the Disciplines	3	1 st year - spring		
CTS 130 Spreadsheets	3	1 st year - spring		
ECO 251 Principles of Microeconomics	3	1 st year - spring		
ACC 129 Individual Income Taxes*	3	2 nd year - fall		
ACC 220 Intermediate Accounting*	4	2 nd year - fall		
BUS 115 Business Law I*	3	2 nd year - fall		
BUS 137 Principles of Management	3	2 nd year - fall		
ACC 130 Business Income Taxes	3	2 nd year - spring		
ACC 221 Intermediate Accounting II	4	2 nd year - spring		
ACC 225 Cost Accounting	3	2 nd year - spring		
WBL 111 Work-based learning I	1	2 nd year - spring		
WBL 115 Work-based Seminar	1	2 nd year - spring		

Electives Requirements**

Humanities/Fine Arts Electives (3 credits) (Choose one course from list below.)**							
Courses offered at RCC:							
ART 111, ENG 231, ENG	ART 111, ENG 231, ENG 232, MUS 110, PHI 240						
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	2 nd year – spring						

Business Elective (3 credits) (Choose one course from list below.)**							
BUS 110, BUS 121, BUS	BUS 110, BUS 121, BUS 125, BUS 153, BUS 230, DBA 110, MKT 120, PAD 152, PAD 251, PAD 252, SPA 111						
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	2 nd year – fall/spring						

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

In order for students to earn an Accounting Certificate, the following courses must be taken: ACA 122, ACC 120, ACC 121, CIS 110, and MAT 143, and select any one (1) of the following courses: ECO 251 or ECO 252.

Students enrolled in WBL 111 and WBL 115, who reside outside of Richmond county and Scotland county North Carolina will need to work under an active, licensed CPA or at an instructor approved location.

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, ACC 121, ART 111, BUS 110, BUS 115, BUS 137, CIS 110, COM 231, 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.

HEATING AND AC TECHNICIAN Air Conditioning, Heating, and Refrigeration Technology (A35100)

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the A.A.S. degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the start-up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. A.A.S. degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

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.

				Work/				
				Class	Lab	Clinical	Credit	
A.	General	Educa	tion Courses					
	1. Requ	ired Co	ourses					
	CON	1 231	Public Speaking	3	0	0	3	
	ENC	111	Writing and Inquiry	3	0	0	3	
	MAT	T 143	Quantitative Literacy	2	2	0	3	
			Humanities/Fine Arts Elective*	3	0	0	3	
			Social/Behavioral Sciences Elective*	3	0	0	3	
B.	Major (Courses						
	1. Core							
	To re	eceive a	degree, diploma or certificate from RCC,	a student	must l	have a gro	ade of "C"	
			all core courses for the program of study.			U	U U	
	AHF	110	Intro to Refrigeration	2	6	0	5	
	AHF	111	HVACR Electricity	2	2	0	3	
	AHF	112	Heating Technology	2	4	0	4	
	AHF	113	Comfort Cooling	2	4	0	4	
	AHR	114	Heat Pump Technology	2	4	0	4	
	AHF	130	HVAC Controls	2	2	0	3	
	AHR	211	Residential Systems Design	2	2	0	3	
	AHF	212	Advanced Comfort Systems	2	6	0	4	
	AHF		HVACR Building Code	1	2	0	2	
			Courses					

2. Other Major Courses

AHR	115	Refrigeration Systems	1	3	0	2
AHR	120	HVACR Maintenance	1	3	0	2
AHR	151	HVAC Duct Systems I	1	3	0	2
AHR	160	Refrigerant Certification	1	0	0	1
AHR	180	HVACR Customer Relations	1	0	0	1
AHR	235	Refrigeration Design	2	2	0	3
BUS	110	Introduction to Business	3	0	0	3
or						
BUS	230	Small Business Management	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
C. Other Required Courses						
ACA	122	College Transfer Success	0	2	0	1
	Total	Credit Hours			65	

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE

AIR CONDITIONING, HEATING, AND REFRIGERATION TECHNOLOGY Work/

					Work/	
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
AHR	110	Intro to Refrigeration	2	6	0	5
AHR	111	HVACR Electricity	2	2	0	3
AHR	113	Comfort Cooling	2	4	0	4
AHR	180	HVACR Customer Relations	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
			9	16	0	17
		First Veen Carries Comester	-	10	0	1/
		First Year – Spring Semester			0	
AHR	112	Heating Technology	2	4	0	4
AHR	114	Heat Pump Technology	2	4	0	4
AHR	151	HVAC Duct Systems I	1	3	0	2
AHR	160	Refrigerant Certification	1	0	0	1
BUS	110	Introduction to Business	3	0	0	3
or						
BUS	230	Small Business Management	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
					—	
			12	11	0	17
		Second Year – Fall Semester				
AHR	115	Refrigeration Systems	1	3	0	2
AHR	211	Residential System Design	2	2	0	3
AHR	213	HVACR Building Code	1	2	0	2

COM	231	Public Speaking	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Humanities Fine Arts Elective*	3	0	0	3
					—	
			12	9	0	16
		Second Year – Spring Semeste	er			
AHR	120	HVACR Maintenance	1	3	0	2
AHR	130	HVAC Controls	2	2	0	3
AHR 2	212	Advanced Comfort Systems	2	6	0	4
AHR 2	235	Refrigeration Design	2	2	0	3
		Social /Behavioral Sciences Elective*	3	0	0	3
			10	13	0	15

Total Credit Hours

65

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE

AIR CONDITIONING, HEATING, AND REFRIGERATION TECHNOLOGY (DIPLOMA) (D35100)

			Work/			
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
AHR	110	Intro to Refrigeration	2	6	0	5
AHR	111	HVACR Electricity	2	2	0	3
AHR	113	Comfort Cooling	2	4	0	4
AHR	180	HVACR Customer Relations	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
						—
			9	16	0	17
		First Year – Spring Semester	•			
AHR	112	Heating Technology	2	4	0	4
AHR	114	Heat Pump Technology	2	4	0	4
AHR	151	HVAC Duct Systems I	1	3	0	2
AHR	160	Refrigerant Certification	1	0	0	1
BUS	110	Introduction to Business	3	0	0	3
or						
BUS	230	Small Business Management	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3 3
MAT	143	Quantitative Literacy	2	2	0	3
			14	13	0	20
	Total Credit Hours				37	

AHRT: AIR CONDITIONING (CERTIFICATE) (C35100C) COURSE REQUIREMENTS

		C C		Work/		
			Class	Lab	Clinical	Credit
AHR	110	Intro to Refrigeration	2	6	0	5
AHR	111	HVACR Electricity	2	2	0	3
AHR	113	Comfort Cooling	2	4	0	4
AHR	160	Refrigerant Certification	1	0	0	1

Total Credit Hours

13

AHRT: HEATING (CERTIFICATE) (C35100H) COURSE REQUIREMENTS

				Work/		
			Class	Lab	Clinical	Credit
AHR	110	Intro to Refrigeration	2	6	0	5
AHR	111	HVACR Electricity	2	2	0	3
AHR	112	Heating Technology	2	4	0	4
AHR	114	Heat Pump Technology	2	4	0	4
AHR	160	Refrigerant Certification	1	0	0	1
					4 🗖	

Total Credit Hours

17

Program Completion Guide **ASSOCIATE IN APPLIED SCIENCE** AIR CONDITIONING, HEATING, AND REFRIGERATION TECHNOLOGY (A35100) **Heating and AC Technician**

Student Name: ______ ID#: _____ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Air Conditioning Certificate (C35100C) Course Requirements 13 credit hours: Complete Section I (as required) and Section II,

	,

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
AHR 110 Intro to Refrigeration*	5	1 st year – fall	None		
AHR 111 HVACR Electricity*	3	1 st year – fall	None		
AHR 113 Comfort Cooling* (not required for heating certificate)	4	1 st year – fall	None		
AHR 160 Refrigerant Certification	1	1 st year – spring	None		

B. Heating Certificate (C35100H) Course Requirements 17 credit hours: Complete Section I (as required) Section II, A and B.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
AHR 112 Heating Technology*	4	1 st year – spring	None		
AHR 114 Heat Pump Technology*	4	1 st year – spring	Pre: AHR 110 or AHR 113		

C. Air Conditioning, Heating, and Refrigeration Technology (D35100) Course Requirements 36 credit hours: Complete Section I (as required) and Section II, A, B, and C.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
AHR 180 HVACR Customer Relations	1	1 st year – fall	None		
CIS 110 Introduction to Computers	3	1 st year – fall	Pre: DRE 097 Co: DRE 098		
AHR 151 HVAC Duct Systems I	2	1 st year – spring	None		
BUS 110 Introduction to Business			Pre: DRE 097		
or	3	1 st year – spring	Co: DRE 098		
BUS 230 Small Business Management			Pre: DRE 098 or RED 090		
ENG 111 Writing and Inquiry	3	1 st year – spring	Pre: DRE 098 or ENG 090 and RED 090		
		, , , ,	Co: ACA 122		
MAT 143 Quantitative Literacy		2 nd year – fall	Pre: DMA 010-050, DRE 098		
WAT 145 Quantitative Elleraty	3	2 year - Idli	Co: ACA 122		

D. Air Conditioning, Heating, and Refrigeration Technology Associate in Applied Science Degree (A35100) Course Requirements 65 credit hours: Complete Sections I (as required) and Section II, A, B, C, and D.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
			•	Planneu	Grade
AHR 115 Refrigeration Systems	2	2 nd year – fall	Pre: AHR 110		
AHR 211 Residential Systems Design*	3	2 nd year – fall	None		
AHR 213 HVACR Building Code*	2	2 nd year – fall	None		
COM 231 Public Speaking	3	2 nd year – fall	Pre: DRE 098 or ENG 090 and RED 090		
AHR 130 HVAC Controls*	3	2 nd year - spring	Pre: AHR 111 or ELC 111		
AHR 120 HVACR Maintenance	2	2 nd year – spring	None		
AHR 212 Advanced Comfort Systems*	4	2 nd year - spring	Pre: AHR 114		
AHR 235 Refrigeration Design	3	2 nd year - spring	Pre: AHR 110		

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).

Courses offered at RCC: ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	2 nd year – fall		

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)							
Courses offered at RCC: ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213							
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	2 nd vear - spring						

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:
Student Name:	Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:
Student Name:	Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:
Student Name:	Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:

Associate Degree Nursing (A45110)

The Associate Degree Nursing curriculum provides knowledge, skills, and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualize care while employing evidence-based practice, quality improvement, and informatics.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN). Employment opportunities are vast within the global health care system and may include positions within acute, chronic, extended, industrial, and community health care facilities.

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.

The Associate Degree Nursing program is approved by the North Carolina Board of Nursing.

Work/			
Class	Lab	Clinical	Credit
3	3	0	4
3	0	0	3
3	0	0	3
3	0	0	3
3	0	0	3
, a student	must h	ave a gro	ade of "C"
4	6	6	8
3	0	6	5
3	0	6	5
3	0	6	5
3	0	6	5
3	0	6	5
4	3	15	10
3	3	0	4
3	3	0	4
	3 3 3 3 3 3 4 3 3 3 4 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ClassLabClinical 3 3 0 3 0 0 3 0 0 3 0 0 3 0 0 4 6 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 3 0 6 3 3 0

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CIS	110	Introduction to Computers	2	2	0	3
PSY	150	General Psychology	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3

Total Credit Hours

*Approved electives are listed on the page before Course Descriptions.

SEMESTER SCHEDULE ASSOCIATE DEGREE NURSING

		ASSOCIATE DEGREE NORSI	U U		Work/	
			Class		l Credit	
		Einst Voor – Foll Comostor	Class	LaD	Cimica	I Crean
DIO	165	First Year – Fall Semester	2	2	0	4
BIO	165	Anatomy and Physiology I	3	3	0	4
CIS	110	Introduction to Computers	2	2	0	3
NUR	111	Intro to Health Concepts	4	6	6	8
PSY	150	General Psychology	3	0	0	3
			12	11	6	18
		First Year – Spring Semester	ſ			
BIO	166	Anatomy and Physiology II	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
NUR	112	Health-Illness Concepts	3	0	6	5
NUR	112	Holistic Health Concepts	3	0 0	6	5
PSY	241	Developmental Psychology	3	0	0	3
151	271	Developmentar i sychology		<u> </u>	<u> </u>	
			15	3	12	20
		First Year – Summer Semeste	er			
NUR	113	Family Health Concepts	3	0	6	5
			3	0	6	5
		Second Year – Fall Semester	•			
BIO	275	Microbiology	3	3	0	4
ENG	112	Writing/Research in the Disciplines	3	0	0	3
NUR	211	Health Care Concepts	3	0	6	5
NUR	212	Health System Concepts	3	0	6	5
		Humanities/Fine Arts Elective*	3	0	0	3
			15	3	12	20
		Second Year – Spring Semester	er			
NUR	213	Complex Health Concepts	4	3	15	10
SOC	210	Introduction to Sociology	3	0	0	3
					1.5	10
			7	3	15	13

Total Credit Hours

*Approved Electives are listed on the page before the Course Descriptions.

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Program Completion Guide ASSOCIATE DEGREE NURSING (A45110)

Student Name: ID #	: Date of Enrollment:
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Criminal background checks and/or drug testing may be required by clinical agencies prior to a student's participation in the clinical component of a course. Failure to meet clinical agency requirements will result in the student not having the opportunity to meet clinical objectives; therefore, the student will not be allowed to progress in the program.

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Associate Degree Nursing Associate in Applied Science Degree (A45110) Course Requirements 76 credit hours: Complete Section I (as required) and Section II, A.

		Recommended			Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Prerequisites	Corequisites	Planned	Grade
ACA 122 College Transfer Success (Course <u>not required</u> but recommended)	1	1 st year – fall	None	None		
BIO 165 Anatomy and Physiology I	4	1 st year – fall	DRE 098 or ENG 090 and RED 090, and DMA 010-050 or MAT 070	None		
CIS 110 Introduction to Computers	3	1 st year – fall	DRE 097	DRE 098		
NUR 111 Intro to Health Concepts	8	1 st year – fall	Admission to ADN Program	BIO 165, CIS 110, and PSY 150		
PSY 150 General Psychology	3	1 st year – fall	DRE 098 or ENG 090 and RED 090	None		
BIO 166 Anatomy and Physiology II	4	1 st year – spring	BIO 165	None		
ENG 111 Writing and Inquiry	3	1 st year – spring	DRE 098 or ENG 090 and RED 090	ACA 122		
NUR 112 Health-Illness Concepts	5	1 st year – spring	NUR 111	BIO 166, ENG 111, and PSY 241		
NUR 114 Holistic Health Concepts	5	1 st year – spring	NUR 111, NUR 112	BIO 166, ENG 111, and PSY 241		
PSY 241 Developmental Psychology	3	1 st year – spring	PSY 150	None		
NUR 113 Family Health Concepts	5	1 st year- summer	NUR 111, NUR 112 NUR 114	None		
BIO 275 Microbiology	4	2 nd year - fall	BIO 110, BIO 111, BIO 163, and BIO 165 or BIO 168	None		
ENG 112 Writing/Research in the Disciplines	3	2 nd year - fall	ENG 111	None		
NUR 211 Health Care Concepts	5	2 nd year - fall	NUR 111, NUR 112 NUR 113, NUR 114	BIO 275, ENG 112		
NUR 212 Health System Concepts	5	2 nd year - fall	NUR 111, NUR 112	BIO 275,		

	2nc	d year	- fall				
Course	Recomme	ende	d Semester	Semester Register	ed/Planned	Semester Co	mpleted/Grade
Take one course; from ART 111, HUM 115, MUS 110, or PHI 240							
Humanities/Fine Ar	ts Electives (3	cred	its).				
SOC 210 Introduction to Sociology		3	2 nd year – spring	DRE 098 or ENG 090, RED 090	None		
NUR 213 Complex Hea	Ith Concepts	10	2 nd year – spring	NUR 111, NUR 112 NUR 113, NUR 114 NUR 211, NUR 212	SOC 210		
				NUR 113, NUR 114, NUR 211	ENG 112		

NOTES:

• Must obtain a grade of "C" or better in all courses in the Associate Degree Nursing curriculum in order to progress in the program and/or to graduate.

- NUR courses must have a grade of 80 or better to progress.
- See course catalog for Prerequisite/Corequisite requirements.

Students please read the following and sign below:

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must do the following or it may affect my ability to graduate on time.

- Complete all curriculum courses with a grade of "C" or better; obtain a grade of 80 or higher in all NUR courses to progress in the Nursing curriculum.
- Follow the established courses sequence and successfully complete all courses.
- Maintain a 2.0 GPA to progress in the nursing curriculum and to graduate.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate and I understand that if I would like more information I can schedule an appointment with him/her.

Student Signature:	Date:
Advisor Signature:	Date:
Student Signature:	Date:
Advisor Signature:	Date:
Student Signature:	Date:
Advisor Signature:	Date:
Student Signature:	Date:
Advisor Signature:	Date:
Student Signature:	Date:
Advisor Signature:	Date:
	Advisor Signature:

Business Administration (A25120)

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

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.

							Work/	a u
	~				Class	Lab	Clinical	Credit
А.				tion Courses				
	1.	Requir			_	_	_	
		ENG		Writing and Inquiry	3	0	0	3
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
				Humanities/Fine Arts Elective*	3	0	0	3
				Social/Behavioral Sciences Elective*	3	0	0	3
	2.	Requir	ed Su	bject Area				
		MAT	143	Quantitative Literacy	2	2	0	3
		or						
		MAT	171	Precalculus Algebra	3	2	0	4
В.	M	ajor Co	urses					
	1.	Core C	Course	es				
		To rec	eive a	degree, diploma, or certificate from RCC, a	student	must l	have a gro	de of "C"
				all core courses for the program of study.			U	U
				Principles of Financial Accounting	3	2	0	4
		BUS		Introduction to Business	3	0	0	3
		BUS	115	Business Law I	3	0	0	3
		BUS	137	Principles of Management	3	0	0	3
		CIS		Introduction to Computers	2	2	0	3
		or		F			-	-
		CIS	111	Basic PC Literacy	1	2	0	2
		ECO	252	Principles of Macroeconomics	3	$\tilde{0}$	0	3
		MKT	120	Principles of Marketing	3	0	0	3
			120	i morpres or marketing	5	0	0	5

2.	Conce	ntrati	on Core Requirements (12 SHC)				
	Choos	e eith	er General Business Admin or Public Admi	in Track:			
	a. Gei	neral	Business Administration Track				
	BUS	121	Business Mathematics	2	2	0	3
	BUS	125	Personal Finance	3	0	0	
	BUS	153	Human Resource Management	3	0	0	3 3
			Small Business Management	3	0	0	3
	b. Pul	blic A	dministration Track (Government Support	Specialis	t)		
	PAD	151	Intro to Public Admin	3	0	0	3
	PAD	152	Ethics in Government	3	0	0	3
	PAD	251	Public Finance & Budgeting	3	0	0	3
			Public Policy Analysis	3	0	0	3
3.	Other	Majo	Courses				
	ACC	121	Principles of Managerial Accounting	3	2	0	4
	BUS	239	Business Applications Seminar	1	2	0	2
	or						
	WBL	111	Work Based Learning I	0	0	10	1
	and						
	WBL	115	Work Based Learning Seminar I	1	0	0	1
	CTS	130	Spreadsheet	2	2	0	3
	ECO		Principles of Microeconomics	3	0	0	3
4.	Requir	red Su	ibject Area				
	Busine	ess El	ectives (Select 6 credits from the following	courses)			
	ACC	122	Principles of Financial Accounting II	3	0	0	3
	ACC	129	Individual Income Taxes	2	2	0	3
	ACC	130	Business Income Taxes	2	2	0	3 3
	ACC	225	Cost Accounting	3	0	0	3
	BUS	116	Business Law II	3	0	0	3
	BUS	139	Entrepreneurship I	3	0	0	3 3 3
	BUS	228	Business Statistics	2	2	0	3
	BUS	260	Business Communication	3	0	0	3
	BUS	261	Diversity in Management	3	0	0	3
	BUS	280	REAL Small Business	4	0	0	4
	INT	110	International Business	3	0	0	3
	MKT	221	Consumer Behavior	3	0	0	3
	MKT	223	Customer Service	3	0	0	3
	MKT	224	International Marketing	3	0	0	3 3
	MKT		Service Marketing	3	0	0	
	NPO	110	Introduction to Nonprofit Management	3	0	0	3 3
	NPO	120	Fundraising/Stewardship	3	0	0	3
	NPO		NPO Advocacy & Public Policy	3	0	0	3
	NPO		Community Engagement	3	0	0	3
	PAD		Intro to Public Admin	3	0	0	3
	PAD		Ethics in Government	3	0	0	3

* *			redit Hours	• ,•		67-7	70
	ACA	122	College Transfer Success	0	2	0	1
C. Otl		-	d Courses				
	Note:	Only	3 SHC of SPA are allowed towards the Busi	ness A	dministı	ration de	egree.
	SPA	120	Spanish for the Workplace	3	0	0	3
	SPA	111	Elementary Spanish I	3	0	0	3
	PMT	215	Project Management Leadership	3	0	0	3
	PMT	210	Project Management Issues	2	2	0	3
	PMT	110	Intro to Project Management	3	0	0	3
	PAD	252	Public Policy Analysis	3	0	0	3
	PAD	251	Public Finance & Budgeting	3	0	0	3

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE BA: GENERAL BUSINESS (A25120GB) (DAY)

Work/							
		Class					
	First Year – Fall Semester						
122	College Transfer Success	0	2	0	1		
110	Introduction to Business	3	0	0	3		
115	Business Law I	3	0	0	3		
110	Introduction to Computers	2	2	0	3		
111	Basic PC Literacy	1	2	0	2		
111	Writing and Inquiry		0	0	3		
143	Quantitative Literacy	2	2	0	3		
171	Precalculus Algebra	3	2	0	4		
		12-14	6	0	15-17		
			0	0	3		
		2		0	3		
					3 3		
120			-	0			
		2-4	0-2	0	3-4		
	Humanities/Fine Arts Elective*	3	0	0	3		
			2-4	0	18-19		
					4		
					3		
	Human Resource Management				3		
252	Principles of Macroeconomics	3	0	0	3		
	110 115 110 111 111 143	First Year – Fall Semester 122 College Transfer Success 110 Introduction to Business 115 Business Law I 110 Introduction to Computers 111 Basic PC Literacy 111 Writing and Inquiry 143 Quantitative Literacy 171 Precalculus Algebra First Year – Spring Semeste 137 Principles of Management 130 Spreadsheet 112 Writing/Research in the Disciplines 120 Principles of Marketing Business Elective I Humanities/Fine Arts Elective* Second Year – Fall Semester 120 Principles of Financial Accounting 121 Business Mathematics 132 Human Resource Management	ClassFirst Year – Fall Semester122College Transfer Success0110Introduction to Business3115Business Law I3110Introduction to Computers2111Basic PC Literacy1111Writing and Inquiry3143Quantitative Literacy2171Precalculus Algebra3130Spreadsheet2112Writing/Research in the Disciplines3120Principles of Marketing3120Principles of Marketing3120Principles of Marketing3120Principles of Marketing3120Principles of Marketing3120Principles of Marketing3120Principles of Spreadsheet2-4120Principles of Financial Accounting3121Business Mathematics2133Human Resource Management3	Class LabFirst Year – Fall Semester122College Transfer Success02110Introduction to Business30115Business Law I30110Introduction to Computers22111Basic PC Literacy12111Writing and Inquiry30143Quantitative Literacy22171Precalculus Algebra32171Precalculus Algebra30130Spreadsheet22137Principles of Management30130Spreadsheet22120Principles of Marketing30120Principles of Marketing30120Principles of Marketing30120Principles of Marketing30120Principles of Financial Accounting32121Business Mathematics22131Human Resource Management30	Work ClassLabWork ClinicaFirst Year – Fall Semester122College Transfer Success020110Introduction to Business300115Business Law I300110Introduction to Computers220111Basic PC Literacy120111Writing and Inquiry300143Quantitative Literacy220171Precalculus Algebra320171Precalculus Algebra300137Principles of Management300130Spreadsheet220120Principles of Marketing300120Principles of Financial Accounting320121Business Mathematics220123Human Resource Management300		

		Business Elective II	2-4	0-2	0	3-4	
			13-15	4-6	0	 16-17	
		Second Year – Spring Semest	er				
ACC	121	Principles of Managerial Accounting	3	2	0	4	
BUS	125	Personal Finance	3	0	0	3	
BUS	230	Small Business Management	3	0	0	3	
BUS	239	Business Applications Seminar	1	2	0	2	
or							
WBL	111	Work Based Learning I	0	0	10	1	
and							
WBL	115	Work Based Learning Seminar I	1	0	0	1	
ECO	251	Principles of Microeconomics	3	0	0	3	
		Social/Behavioral Sciences Elective*	3	0	0	3	
			16	4	0-10	18	
Total Credit Hours67-70							

*Approved Electives are listed on the page before the Course Descriptions.

BUSINESS ADMINISTRATION (CERTIFICATE) (C25120) COURSE REQUIREMENTS

		C C		Work/			
			Class	Lab	Clinical	Credit	
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	
or							
CTS	130	Spreadsheet	2	2	0	3	
BUS	137	Principles of Management	3	0	0	3	
CIS	110	Introduction to Computers	2	2	0	3	
or							
CIS	111	Basic PC Literacy	1	2	0	2	
MKT	120	Principles of Marketing	3	0	0	3	
	T	otal Credit Hours			17-18	8	

Program Completion Guide

ASSOCIATE IN APPLIED SCIENCE - BUSINESS ADMINISTRATION: GENERAL BUSINESS (A25120GB)

Student Name: ______ ID #: _____ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Business Administration Certificate (C25120) Course Requirements 17-18 credit hours: Complete Section I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
BUS 110 Introduction to Business*	3	1 st year – fall	Pre: DRE 097 Co: DRE 098		
BUS 115 Business Law I*	3	1 st year – fall	Pre: DRE 097 Co: DRE 098		
CIS 110 Introduction to Computers* or CIS 111 Basic PC Literary	3	1 st year – fall	Pre: DRE 097 Co: DRE 098		
BUS 137 Principles of Management*	3	1 st year – spring	Pre: DRE 098 or ENG 090 and RED 090		
BUS 125 Personal Finance (required for degree)		2 nd year – spring	Pre: DMA 010-030 or MAT- 060, DRE-098 or RED-090		
or CTS 130 Spreadsheet (required for degree)	3	1 st year – spring	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
MKT 120 Principles of Marketing*	3	1 st year – spring	Pre: DRE 098 or ENG 090 and RED 090		

B. Business Administration: General Business Associate in Applied Science Degree (A25120GB) Course Requirements 67-70 credit hours: Complete Sections I (as required) and Section II, A and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
ENG 111 Writing and Inquiry	3	1 st year – fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
MAT 143 Quantitative Literacy		1 st year – fall	Pre: DMA 010-050, DRE 098 Co: ACA 122		
or	4	1 st year – fall	Pre: DMA 010-080 or MAT 080		

MAT 171 Precalculus Algebra				
ENG 112 Writing/Research in the Disciplines	3	1 st year - spring	Pre: ENG 111	
ACC 120 Principles of Financial Accounting*	4	2 nd year – fall	Pre: DMA 010-040 or MAT 070, DRE 098 or RED 090	
BUS 121 Business Mathematics	3	2 nd year – fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098	
BUS 153 Human Resource Management	3	2 nd year – fall	Pre: DRE 098 or RED 090	
ECO 252 Principles of Macroeconomics*	3	2 nd year – fall	Pre: DMA 010-020 or MAT 060, DRE 097 or RED 090 Co: DRE 098	
ACC 121 Principles of Managerial Accounting	4	2 nd year – spring	Pre: ACC 120 with minimum grade of "C"	
BUS 230 Small Business Management	3	2 nd year – spring	Pre: DRE 098 or RED 090	
BUS 239 Business Applications Seminar or	2	2 nd year – spring	Pre: ACC 120, BUS 115, BUS 137, ECO 151 or 251 or 252, MKT 120	
WBL 111 Work Based Learning I	1		Pre: 9 SHC in the major core courses	
and			Co: WBL 115 Pre: 9 SHC in the major core	
WBL 115 Work Based Learning Seminar I	1		courses Co: WBL 111	
ECO 251 Principles of Microeconomics	3	2 nd year – spring	Pre: DMA 010-020 or MAT 060, DRE 097 or RED 090 Co: DRE 098	

Required Subject Area:

Business Electives (Select 6 hours from the following courses)

ACC 122, ACC 129, ACC 130, ACC 225, BUS 116, BUS 139, BUS 228, BUS 260, BUS 261, BUS 280, INT 110, MKT 221, MKT 223, MKT 224, MKT 228, NPO 110, NPO 120, NPO 215, NPO 225, PAD 151, PAD 152, PAD 251, PAD 252, PMT 110, PMT 210, PMT 215, SPA 111, SPA 120. Note: Only 3 SHC of SPA are allowed towards the Business Administration degree. BUS 139 and BUS 280 are required for the Entrepreneurship Certificate.

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade						
	1 st year – spring								
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade						
	2 nd vear – fall								

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only). Courses offered at RCC: ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade		
	1 st year – spring				

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)							
Courses offered at RCC: ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213							
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	2 nd year – spring						

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

BA: GENERAL BUSINESS (A25120GB) (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. G	eneral I	Educa	tion Courses					
1.	Requi	red Co	Durses					
	ENG	111	Writing and Inquiry	3	0	0	3	
	ENG	112	Writing/Research in the Disciplines	3	0	0	3	
			Humanities/Fine Arts Elective*	3	0	0	3	
			Social/Behavioral Sciences Elective*	3	0	0	3	
2.	Requi	red Su	ıbject Area					
	MAT	143	Quantitative Literacy	2	2	0	3	
	Iajor Co							
1.	Core C							
			degree, diploma, or certificate from RCC,	a student	must h	iave a gr	ade of "C"	
	or bet		all core courses for the program of study.					
	ACC		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		Principles of Management	3	0	0	3	
	CIS	110	Introduction to Computers	2	2	0	3	
	or							
	CIS		Basic PC Literacy	1	2	0	2	
	ECO		Principles of Macroeconomics	3	0	0	3	
	MKT		Principles of Marketing	3	0	0	3	
2.	Conce		on Requirements (12 SHC)					
	BUS		Business Mathematics	2	2	0	3	
	BUS		Personal Finance	3	0	0	3	
			Human Resource Management	3	0	0	3	
	BUS		Small Business Management	3	0	0	3	
3.		•	Courses					
			Principles of Managerial Accounting	3	2	0	4	
	BUS	239	Business Applications Seminar	1	2	0	2	
	or							
	WBL	111	Work Based Learning I	0	0	10	1	
	and							
	WBL	115	Work Based Learning Seminar I	1	0	0	1	
	CTS		Spreadsheet	2	2	0	3	
	ECO		Principles of Microeconomics	3	0	0	3	
4.	1		ıbject Area					
			ectives (Select 6 credits from the following			_		
			Principles of Financial Accounting II	3	0	0	3	
	ACC	129	Individual Income Taxes	2	2	0	3	
	ACC	130	Business Income Taxes	2	2	0	3	

ACC	225	Cost Accounting	3	0	0	3		
BUS	116	Business Law II	3	0	0	3		
BUS	139	Entrepreneurship I	3	0	0	3		
BUS	261	Diversity in Management	3	0	0	3		
BUS	280	REAL Small Business	4	0	0	4		
INT	110	International Business	3	0	0	3		
MKT	221	Consumer Behavior	3	0	0	3		
MKT	223	Customer Service	3	0	0	3		
NPO	110	Introduction to Nonprofit Management	3	0	0	3		
NPO	111	Governance & Leadership	3	0	0	3		
PAD	151	Intro to Public Admin	3	0	0	3		
PAD	152	Ethics in Government	3	0	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		
Note:	Only	3 SHC of SPA are allowed towards the Bu	isiness Ad	minist	ration de	egree.		
C. Other Red	quire	d Courses						
ACA	122	College Transfer Success	0	2	0	1		
Total Credit Hours67-70								
*Approved Electives offered online:								
Humanities/Fine Arts Electives are: ART 111, ENG 131, ENG 231, MUS 110, PHI 240, REL								
211, and REL 212. Social/Debayional Sciences Floatives and ANT 220, HIS 111, HIS 112, HIS 121, DSV 150, DSV								
Nonial/Daharri	oral C	$(a_1, a_2, a_3, b_1, a_2, a_3, a_3, a_3, a_3, a_3, a_3, a_3, a_3$	LIC 117	LIC 1	21 DCA	/ 15/1 DC	v	

Social/Behavioral Sciences Electives are: ANT 220, HIS 111, HIS 112, HIS 131, PSY 150, PSY 241, SOC 210, and SOC 213.

SEMESTER SCHEDULE BA: GENERAL BUSINESS (A25120GB) (ONLINE)

				Work/					
			Class	Class Lab Clinica		al Credit			
		First Year – Fall Semester							
ACA	122	College Transfer Success	0	2	0	1			
BUS	110	Introduction to Business	3	0	0	3			
BUS	137	Principles of Management	3	0	0	3			
ENG	111	Writing and Inquiry	3	0	0	3			
MKT	120	Principles of Marketing	3	0	0	3			
		Business Elective I	2-4	0-2	0	3-4			
				—		_			
			14-16	2-4	0	16-17			
First Year – Spring Semester									
BUS	115	Business Law I	3	0	0	3			
CIS	110	Introduction to Computers	2	2	0	3			
or									

CIS ECO ENG	111 252 112	Basic PC Literacy Principles of Macroeconomics Writing/Research in the Disciplines	1 3 3	2 0 0	0 0 0	2 3 3
MAT	143	Quantitative Literacy		2	0	3
MAI	145	Humanities/Fine Arts Elective*	2 3		0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			 15-16	4	0	 17-18
		Second Year – Fall Semeste				
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	125	Personal Finance	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
CTS	130	Spreadsheet		2	0	3
ECO	251	Principles of Microeconomics	2 3	0	0	3
200			_			_
			14	4	0	16
		Second Year – Spring Semest	er			
ACC	121	Principles of Managerial Accounting	3	2	0	4
BUS	121	Business Mathematics	2	2	0	3
BUS	153	Human Resource Management	3	0	0	3 2
BUS	239	Business Applications Seminar	1	2	0	2
or						
WBL	111	Work Based Learning I	0	0	10	1
and		C C				
WBL	115	Work Based Learning Seminar I	1	0	0	1
		Business Elective II	2-4	0-2	0	3-4
		Social/Behavioral Sciences Elective*	3	0	0	3
			14-16	4-8	0-10	18-19
	То	tal Credit Hours			67-	70
	1 5					

*Approved Electives are listed above with the Course Requirements.

BUSINESS ADMINISTRATION (CERTIFICATE) (C25120) (ONLINE) COURSE REQUIREMENTS

					Work/	
			Class	Lab	Clinical	Credit
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law I	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
or						
CIS	111	Basic PC Literacy	1	2	0	2
CTS	130	Spreadsheet	2	2	0	3
MKT	120	Principles of Marketing	3	0	0	3

Total Credit Hours

17-18

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 focus on North Carolina business culture and information: BUS 110 and BUS 280. RichmondCC cannot guarantee applicability in another state.

The following courses are part of the North Carolina Articulation Agreement: ACC 120, ACC 121, ANT 220, ART 111, BUS 110, BUS 115, BUS 137, BUS 228, CIS 110, DRA 111, ECO 251, ECO 252, ENG 111, ENG 112, ENG 131, ENG 231, ENG 232, HIS 111, HIS 112, HIS 131, HIS 132, MAT 143, MUS 110, PHI 240, PSY 150, PSY 241, REL 211, REL 212, SOC 210, SOC 213, SPA 111, and SPA 211. 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.

Program Completion Guide

ASSOCIATE IN APPLIED SCIENCE - BUSINESS ADMINISTRATION: GENERAL BUSINESS (A25120GB) (Online)

Student Name:	 ID #:	 Catalog:	

Advisor Name: ______ Contact Information: ______

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

A. Business Administration Certificate ONLINE (C25120) Course Requirements 17-18 credit hours: Complete Section A.**

		Recommended	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Planned	Grade
BUS 110 Introduction to Business*	3	1 st year – fall		
BUS 137 Principles of Management*	3	1 st year – fall		
MKT 120 Principles of Marketing*	3	1 st year – fall		
BUS 115 Business Law I*	3	1 st year – spring		
CIS 110 Introduction to Computers*	3			
or		1 st year – spring		
CIS 111 Basic PC Literary	2			
CTS 130 Spreadsheet (required for degree)	3	2 nd year – fall		

B. Business Administration: General Business Associate in Applied Science Degree ONLINE (A25120GB) Course Requirements 67-68 credit hours: Complete Sections A and B.**

		Recommended	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Planned	Grade
ACA 122 College Transfer Success	1	1 st year – fall		
ENG 111 Writing and Inquiry	3	1 st year – fall		
ECO 252 Principles of Macroeconomics*	3	1 st year – spring		
ENG 112 Writing/Research in the Disciplines	3	1 st year – spring		
MAT 143 Quantitative Literacy	3	1 st year – spring		
ACC 120 Principles of Financial Accounting*	4	2 nd year – fall		
BUS 125 Personal Finance	3	2 nd year — fall		
BUS 230 Small Business Management	3	2 nd year — fall		
ECO 251 Principles of Microeconomics	3	2 nd year – fall		
ACC 121 Principles of Managerial Accounting	4	2 nd year – spring		
BUS 121 Business Mathematics	3	2 nd year – spring		
BUS 153 Human Resource Management	3	2 nd year – spring		
BUS 239 Business Applications Seminar	2			
or	2			
WBL 111 Work Based Learning I	1	2 nd year – spring		
and				
WBL 115 Work Based Learning Seminar I	1			

Required Subject Area

Business Electives (Select 6 credits from the following courses)**								
ACC 122, ACC 129, ACC 130, ACC 225, BUS 116, BUS 139, BUS 228, BUS 260, BUS 261, BUS 280, INT 110, MKT 221, MKT 223, MKT 224, MKT 228,								
NPO 110, NPO 111, PAD 151, PAD 152, PAD 251, PAD 252, PMT 110, PMT 210, PMT 215, SPA 111, SPA 120.								
Note: Only 3 SHC of SPA are allow	ed towards the Business Administrat	ion degree.						
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade					
	1 st year – fall							
Course Recommended Semester Semester Registered/Planned Semester Completed/Grade								
	2 nd year – spring							

Humanities/Fine A	rts Electives (3 credits)**		i uge
Courses offered at RC			
ART 111, DRA 111, EN	NG 131, ENG 231, ENG 232, MUS 110,	PHI 240, REL 211, REL 212, SPA 211	
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	1 st year – spring		
			•
Social/Behavioral	Sciences Electives (3 credits)**		
Courses offered at RC	CC:		
ANT 220, HIS 111, HIS	5 112, HIS 131, HIS 132, PSY 150, PSY	241, SOC 210, SOC 213	
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	2 nd year – spring		
understand that as an Ro bllow the established cou Ay advisor has information	urse sequence or my ability to graduate or	pportunities that I can investigate after completing	-
tudent Name:	Stu	udent Signature:	Date:
dvisor Name:	Ac	lvisor Signature:	Date:
tudent Name:	Stu	udent Signature:	Date:
dvisor Name:	Ac	lvisor Signature:	Date:
tudent Name:	Stu	udent Signature:	Date:

Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

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 focus on North Carolina business culture and information: BUS 110 and BUS 280. RichmondCC cannot guarantee applicability in another state.

The following courses are part of the North Carolina Articulation Agreement: ACC 120, ACC 121, ANT 220, ART 111, BUS 110, BUS 115, BUS 137, BUS 228, CIS 110, DRA 111, ECO 251, ECO 252, ENG 111, ENG 112, ENG 131, ENG 231, ENG 232, HIS 111, HIS 112, HIS 131, HIS 132, MAT 143, MUS 110, PHI 240, PSY 150, PSY 241, REL 211, REL 212, SOC 210, SOC 213, SPA 111, and SPA 211. 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.

		Government Support Specian	51		*** * /	
					Work/	
			Class	Lab	Clinica	l Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
BUS	115	Business Law I	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
or		I				
CIS	111	Basic PC Literacy	1	2	0	2
ENG	111	Writing and Inquiry	3	$\overline{0}$	ů 0	3
MAT	143	Quantitative Literacy	2	2	0	3
or	175	Quantitative Enteracy	2	2	0	5
MAT	171	Precalculus Algebra	3	2	0	4
PAD	151	Intro to Public Administration	3		0	4
FAD	131	muo to Public Administration	3	0	0	3
			12-14	6	0	15-17
		First Year – Spring Semester		0	U	15 17
BUS	110	Introduction to Business	3	0	0	3
CTS	130	Spreadsheet	2	2	0	3
ENG	112	Writing/Research in the Disciplines	$\frac{2}{3}$		0	
						3
MKT	120	Principles of Marketing	3	0	0	3
PAD	152	Ethics in Government	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			17	2	0	18
		Second Year – Fall Semester		2	0	10
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	120	Principles of Management	3		0	3
ECO	252		3	0	0	3
		Principles of Macroeconomics				
PAD	251	Public Finance & Budgeting	3	0	0	3
		Business Elective	3	0	0	3
			14	4	0	16
		Second Year – Spring Semest		+	0	10
ACC	121	Principles of Managerial Accounting	3	2	0	4
BUS	239	Business Applications Seminar	1	$\frac{2}{2}$	0	
						2
ECO	251	Principles of Microeconomics	3	0	0	3
PAD	252	Public Policy Analysis	3	0	0	3 3
		Social/Behavioral Sciences Elective*	3	0	0	3
			13	4	0	15

SEMESTER SCHEDULE BA: PUBLIC ADMINISTRATION (A25120PA) (DAY) Government Support Specialist

Total Credit Hours

64-66

*Approved Electives are listed on the page before the Course Descriptions.

BA: PUBLIC ADMINISTRATION (CERTIFICATE) (C25120H)
COURSE REQUIREMENTS

					Work/	
			Class	Lab	Clinical	Credit
BUS	137	Principles of Management	3	0	0	3
BUS	153	Human Resource Management	3	0	0	3
PAD	151	Intro to Public Administration	3	0	0	3
PAD	152	Ethics in Government	3	0	0	3
PAD	251	Public Finance & Budgeting	3	0	0	3
PAD	252	Public Policy Analysis	3	0	0	3

Total Credit Hours

18

Program Completion Guide

ASSOCIATE IN APPLIED SCIENCE - BUSINESS ADMINISTRATION: PUBLIC ADMINISTRATION (A25120PA)

Student Name: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Business Administration: Public Administration Certificate (C25120H) Course Requirements 18 credit hours: Complete Section I (as required) and Section II, A. _____

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
BUS 137 Principles of Management*	3	2 nd year – fall	Pre: DRE 098 or ENG 090 and RED 090		
BUS 153 Human Resource Management* (Course not required for degree.)	3		Pre: DRE 098 or RED 090		
PAD 151 Intro to Public Administration*	3	1 st year – fall	None		
PAD 152 Ethics in Government*	3	1 st year - spring	None		
PAD 251 Public Finance & Budgeting*	3	2 nd year – fall	None		
PAD 252 Public Policy Analysis*	3	2 nd year – fall	None		

B. Business Administration: Public Administration Associate in Applied Science Degree (A25120PA) Course Requirements 64-67 credit hours: Complete Sections I (as required) and Section II, A and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
BUS 115 Business Law I	3	1 st year – fall	Pre: DRE 097 Co: DRE 098		
CIS 110 Introduction to Computers*	3		Pre: DRE 097		
or		1 st year – fall	Co: DRE 098		
CIS 111 Basic PC Literary	2				
ENG 111 Writing and Inquiry	3	1 st year – fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
MAT 143 Quantitative Literacy	2		Pre: DMA 010-050, DRE 098		
or	3	1 st year – fall	Co: ACA 122		
MAT 171 Precalculus Algebra	4		Pre: DMA 010-080 or MAT 080		
BUS 110 Intro to Business	3	1 st voor coring	Pre: DRE 097		
DOS TTO INTO TO BUSILIESS	3	1 st year - spring	Co: DRE 098		
			Pre: DMA 010-040 or MAT 070,		
CTS 130 Spreadsheet	3	1 st year - spring	DRE 097		
			Co: DRE 098		

ENG 112 Writing/Research in the Disciplines	3	1 st year - spring	Pre: ENG 111
MKT 120 Principles of Marketing	3	1 st year - spring	Pre: DRE 098 or ENG 090 and RED 090
ACC 120 Principles of Financial Accounting*	4	2 nd year – fall	Pre: DMA 010-040 or MAT 070, DRE 098 or RED 090
ECO 252 Principles of Macroeconomics*	3	2 nd year – fall	Pre: DMA 010-020 or MAT 060, DRE 097 or RED 090 Co: DRE 098
ACC 121 Principles of Managerial Accounting	4	2 nd year – spring	Pre: ACC 120 with minimum grade of "C"
BUS 239 Business Applications Seminar	2	2 nd year – spring	Pre: ACC 120, BUS 115, BUS 137, ECO 151 or 251 or 252, MKT 120
ECO 251 Principles of Microeconomics	3	2 nd year – spring	Pre: DMA 010-020 or MAT 060, DRE 097 or RED 090 Co: DRE 098

Required Subject Area:

Business Electives (Select 3 credits from the following courses)

ACC 122, ACC 129, ACC 130, ACC 225, BUS 116, BUS 139, BUS 228, BUS 260, BUS 261, BUS 280, INT 110, MKT 221, MKT 223, MKT 224, MKT 228, NPO 110, NPO 120, NPO 215, NPO 225 PMT 110, PMT 210, PMT 215, SPA 111, SPA 120.

Note. Only 5 She of SFA are anowed towards the business Administration degree.							
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	2 nd year – fall						

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

 Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).

 Courses offered at RCC:

 ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211

 Course
 Recommended Semester

 Semester Registered/Planned
 Semester Completed/Grade

 1st year – spring
 1st year – spring
 1st year – spring

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.) Courses offered at RCC: ANT 220, HIS 111, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	2 nd year – spring		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

BA: ENTREPRENEURSHIP (CERTIFICATE) (C25120E) COURSE REQUIREMENTS

	COURSE REQUIREMENTS						
					Work/		
			Class	Lab	Clinical	Credit	
BUS	110	Introduction to Business	3	0	0	3	
BUS	139	Entrepreneurship I	3	0	0	3	
BUS	280	REAL Small Business	4	0	0	4	
ECO	251	Principles of Microeconomics	3	0	0	3	

Total Credit Hours

13

Program Completion Guide **BUSINESS ADMINISTRATION: ENTREPRENEURSHIP CERTIFICATE (C25120E)** (All courses are part of the Associate in Applied Science degree in Business Administration)

Student Name: ID #: Date of Enrollment:

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II: Entrepreneurship Certificate (C25120E) Course Requirements 13 credit hours: Complete Sections I (as required) and II requirements.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
BUS 110 Introduction to Business*	3		Pre: DRE 097 Co: DRE 098		
BUS 139 Entrepreneurship I*	3		None		
BUS 280 REAL Small Business*	4		None		
ECO 251 Principles of Microeconomics*	3		Pre: DMA 010-020 or MAT 060, DRE 097 or RED 090 Co: DRE 098		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

BA: PROJECT MANAGEMENT (CERTIFICATE) (C25120PM) COURSE REQUIREMENTS

			Work/			
			Class	Lab	Clinical	Credit
BUS	137	Principles of Management	3	0	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

Total Credit Hours

12

Program Completion Guide BUSINESS ADMINISTRATION: PROJECT MANAGEMENT (CERTIFICATE) (C25120PM)

Student Name: ID #: Date of Enrollment:	C 1 1 1 1	15 /		
	Student Name:	ID #	: Date of Enrollme	ent:

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II: Project Management Certificate (C25120PM) Course Requirements 12 credit hours: Complete Sections I (as required) and II requirements.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
BUS 137 Principles of Management*	3	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090		
PMT 110 Intro to Project Management*	3	1 st year - fall	None		
PMT 210 Project Management Issues*	3	1 st year - spring	Pre: PMT 110		
PMT 215 Project Management Leadership*	3	1 st year - spring	Pre: PMT 110		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

COMPUTER ENGINEERING TECHNICIAN Computer Engineering Technology (A40160)

ENGINEERING AND TECHNOLOGY PATHWAYS

These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subject areas.

Course work includes mathematics, natural sciences, and engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, construction technicians and mangers, industrial and technology managers, or research technicians.

PROGRAM DESCRIPTION

A course of study that prepares the students to use basic engineering principles and technical skills for installing, servicing, and maintaining computers, peripherals, networks, and microprocessor and computer controlled equipment. Includes instruction in mathematics, computer electronics and programming, prototype development and testing, systems installation and testing, solid state and microminiature circuitry, peripheral equipment, and report preparation. Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring knowledge of electronic and computer systems. Graduates may also qualify for certification in electronics, computers, or networks.

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.

				Work/			
				Class	Lab	Clinica	l Credit
А.	General H	Educa	tion Courses				
	1. Requir	ed Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
	COM	231	Public Speaking	3	0	0	3
	or						
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
	MAT	171	Precalculus Algebra	3	2	0	4
			Humanities/Fine Arts Elective*	3	0	0	3
			Social/Behavioral Sciences Elective*	3	0	0	3
B.	Maior Co	urses	1				

B. Major Courses

1. Core Courses

		Tota	l Credit Hours			67	
	ACA	122	College Transfer Success	0	2	0	1
D.	Other Ree	quire	d Courses				
	NOS	120	Linux/Unix Single User	2	2	0	3
	NET	125	Introduction to Networks	1	4	0	3
	MAT	172	Precalculus Trigonometry	3	2	0	4
	ELN	260	Prog Logic Controllers	3	3	0	4
	EGR	285	Design Project	0	4	0	2
	DFT	151	CAD I	2	3	0	3
	CIS	115	Introduction to Programming & Logic	2	3	0	3
	ATR	112	Intro to Automation	2	3	0	3
C.	Other Ma	ijor C	lourses				
	ELN	232	Introduction to Microprocessors	3	3	0	4
	ELN	133	Digital Electronics	3	3	0	4
	ELN	131	Analog Electronics I	3	3	0	4
	ELC	131	Circuit Analysis I	3	3	0	4
	CTS	220	Advanced Hard/Software Support	2	3	0	3
	CTS	120	Hardware/Software Support	2	3	0	3
	CSC	153	C# Programming	2	3	0	3
	or bett	er in d	all core courses for the program of study.				

To receive a degree, diploma or certificate from RCC, a student must have a grade of "C" or better in all core courses for the program of study.

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE COMPUTER ENGINEERING TECHNOLOGY (DAY)

					,	
				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
CTS	120	Hardware/Software Support	2	3	0	3
ELC	131	Circuit Analysis I	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
			13	13	0	18
		First Year – Spring Semester	•			
CTS	220	Advanced Hard/Software Support	2	3	0	3
COM	231	Public Speaking	3	0	0	3
or						
ENG	112	Writing/Research in the Disciplines	3	0	0	3
ELN	131	Analog Electronics I	3	3	0	4
ELN	133	Digital Electronics	3	3	0	4
MAT	172	Precalculus Trigonometry	3	2	0	4

			14	11	0	18
		Second Year – Fall Seme	ster			
DFT	151	CAD I	2	3	0	3
ELN	232	Introduction to Microprocessors	3	3	0	4
ELN	260	Prog Logic Controllers	3	3	0	4
NOS	120	Linux/Unix Single User	2	2	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			$\overline{13}$	<u> </u>	0	17
		Second Year – Spring Sem	ester			
ATR	112	Intro to Automation	2	3	0	3
CSC	153	C# Programming	2	3	0	3
EGR	285	Design Project	0	4	0	2
NET	125	Introduction to Networks	1	4	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			8	14	0	14
	Т	otal Credit Hours			67	

*Approved Electives are listed on the page before the Course Descriptions.

COMPUTER ENGINEERING TECHNOLOGY (CERTIFICATE) (C40160) COURSE REQUIREMENTS

			Work/			
			Class	Lab	Clinical	Credit
CIS	115	Introduction to Programming & Logic	2	3	0	3
CTS	120	Hardware/Software Support	2	3	0	3
ELC	131	Circuit Analysis I	3	3	0	4
ELN	131	Analog Electronics I	3	3	0	4
ELN	133	Digital Electronics	3	3	0	4

Total Credit Hours

18
Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - COMPUTER ENGINEERING TECHNOLOGY (A40160) **Computer Engineering Technician**

Student Name: _____ Date of Enrollment: _____

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Computer Engineering Technology Certificate (C40160) Course Requirement 18 Credit hours: Complete Section I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
			Pre: DMA 010-040 or MAT 080,		
CIS 115 Introduction to Programming & Logic	3	1 st year - fall	DRE 097		
			Co: DRE 098		
			Pre: DMA 010-040 or MAT		
CTS 120 Hardware/Software Support*	3	1 st year - fall	070, DRE 097		
			Co: DRE 098		
ELC 131 Circuit Analysis I*	4	1 st year - fall	Pre: DMA 010-050 or MAT 070		
	4	i year-tali	Co: DRE 096		
ELN 131 Analog Electronics*	4	1 st year - spring	Pre: ELC 131		
ELN 133 Digital Electronics*	4	1 st year - spring	Pre: ELC 112 or ELC 131		

B. Computer Engineering Technology Associate in Applied Science Degree (A40160) Course Requirements 67 credit hours: Complete Section I (as required) and Section II, A and B.

				Semester	Semester
		Recommended	Prerequisites/	Registered/	Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	1 st year - fall	None		
ENG 111 Writing and Inquiry	3	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
MAT 171 Precalculus Algebra	4	1 st year - fall	Pre: DMA 010-080 or MAT 080		
CTS 220 Advanced Hard/Software Support*	3	1 st year - spring	Pre: CTS 120		
COM 231 Public Speaking or	3	1 st year - spring	Pre: DRE 098 or ENG 090 and RED 090		
ENG 112 Writing/Research in the Disciplines	3		Pre: ENG 111		
MAT 172 Precalculus Trigonometry	4	1 st year - spring	Pre: MAT 171		

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DFT 151 CAD I	3	2 nd year – fall	Pre: DMA 010-030 or MAT 060, DRE 097 or RED 080	
ELN 232 Introduction to Microprocessors*	4	2 nd year – fall	Pre: ELN 133	
ELN 260 Prog Logic Controllers	4	2 nd year – fall	Pre: ELC 112 or ELC 131	
NOS 120 Linux/Unix Singer User	3	2 nd year – fall	Pre: CET 211 or NOS 110	
ATR 112 Intro to Automation	3	2 nd year - spring	Pre: ELN 260	
CSC 153 C# Programming*	3	2 nd year – spring	Pre: CIS 115	
EGR 285 Design Project	2	2 nd year - spring	Pre: ELN 133, ELN 131, ELN 260	
NET 125 Introduction to Networks	3	2 nd year - spring	Pre: DMA 010-050 or MAT 070, DRE 097 Co: DRE 098	

Electives: (Must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine A	rts Electives (3 credits)** (Courses v	vith the following prefixes will satisfy this requir	ement: ART, DRA, ENG (literature courses			
only), HUM, MUS, PHI, F	REL, and SPA (Intermediate Spanish I only)					
Courses offered at RCC:						
ART 111, DRA 111, ENG	131, ENG 231, ENG 232, MUS 110, PHI 240	, REL 211, REL 212, SPA 211				
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade			
	2 nd year - spring					
Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY,						

and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.) Courses offered at RCC:

ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	2 nd year - fall						

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

MACHINIST/CNC OPERATOR Computer-Integrated Machining (Diploma) (D50210)

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

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.

						Work/	
				Class	Lab	Clinical	Credit
Ge	eneral E	Educa	tion Courses				
1.	Requir	red Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
			Social/Behavioral Sciences Elective*	3	0	0	3
Ma	ajor Co	urses	\$				
1.	Core C	Course	es				
	To rec	eive a	degree, diploma or certificate from RCC, a	a student	must k	nave a gra	ide of "C"
	or bett	er in	all core courses for the program of study.				
	BPR	111	Print Reading	1	2	0	2
	MAC	111	Machining Technology I	2	12	0	6
	MAC	112	Machining Technology II	2	12	0	6
	MAC	122	CNC Turning	1	3	0	2
2.	Other 1	Majoı	Courses				
	BPR	121	Blueprint Reading: Mechanical	1	2	0	2
	MAC	113	Machining Technology III	2	12	0	6
	MAC	124	CNC Milling	1	3	0	2
	MAC	151	Machining Calculations	1	2	0	2
	MEC	142	Physical Metallurgy	1	2	0	2
	or						
	WBL	112	Work-Based Learning I	0	0	20	2
	1. M a 1.	 Requir ENG Major Co Core C To rec or bett BPR MAC MAC 2. Other BPR MAC MAC MAC MAC MAC MAC or 	 Required Correction ENG 111 Major Courses Core Courses To receive a or better in the BPR 111 MAC 111 MAC 112 MAC 122 Other Major BPR 121 MAC 124 MAC 151 MEC 142 or 	 Major Courses 1. Core Courses To receive a degree, diploma or certificate from RCC, or better in all core courses for the program of study. BPR 111 Print Reading MAC 111 Machining Technology I MAC 112 Machining Technology II MAC 122 CNC Turning 2. Other Major Courses BPR 121 Blueprint Reading: Mechanical MAC 113 Machining Technology III MAC 124 CNC Milling MAC 151 Machining Calculations MEC 142 Physical Metallurgy 	General Education Courses 1. Required Courses ENG 111 Writing and Inquiry 3 Social/Behavioral Sciences Elective* 3 Major Courses 1. Core Courses To receive a degree, diploma or certificate from RCC, a student or better in all core courses for the program of study. BPR 111 Print Reading 1 MAC 112 MAC 112 MAC 122 MAC 122 MAC 122 MAC 122 MAC 123 Machining Technology II 2 MAC 122 MAC 123 MAC 124 MAC 123 MAC 133 Machining Technology III 2 MAC 113 MAC 113 MAC 124 MAC 134 MAC 151 MAC 151 MEC 142 Metaling 1 MEC <t< th=""><th>General Education Courses 1. Required Courses ENG 111 Writing and Inquiry 3 0 Social/Behavioral Sciences Elective* 3 0 Major Courses 3 0 1. Core Courses 70 receive a degree, diploma or certificate from RCC, a student must Por better in all core courses for the program of study. BPR 111 Print Reading 1 2 MAC 111 Machining Technology I 2 12 MAC 112 Machining Technology II 2 12 MAC 122 CNC Turning 1 3 2. Other Major Courses 1 2 BPR 121 Blueprint Reading: Mechanical 1 2 MAC 113 Machining Technology III 2 12 MAC 151 Machining Calculations 1 2 MEC 142 Physical Metallurgy 1 2 or 0 0 0</th><th>ClassLabClinicalGeneral Education Courses1.Required CoursesENG111Writing and Inquiry300Social/Behavioral Sciences Elective*300Major Courses1.Core Courses300Major Courses70 receive a degree, diploma or certificate from RCC, a student must have a gree, or better in all core courses for the program of study.120MAC111Machining Technology I2120MAC112Machining Technology II2120MAC122CNC Turning13002.Other Major Courses1200MAC113Machining Technology III2120MAC113Machining Technology III2120MAC113Machining Technology III2120MAC113Machining Technology III2120MAC113Machining Technology III2120MAC13Machining Technology III300MAC13Machining Calculations120MAC14210120MAC151Machining Calculations120MEC142Physical Metallurgy120or01200</th></t<>	General Education Courses 1. Required Courses ENG 111 Writing and Inquiry 3 0 Social/Behavioral Sciences Elective* 3 0 Major Courses 3 0 1. Core Courses 70 receive a degree, diploma or certificate from RCC, a student must Por better in all core courses for the program of study. BPR 111 Print Reading 1 2 MAC 111 Machining Technology I 2 12 MAC 112 Machining Technology II 2 12 MAC 122 CNC Turning 1 3 2. Other Major Courses 1 2 BPR 121 Blueprint Reading: Mechanical 1 2 MAC 113 Machining Technology III 2 12 MAC 151 Machining Calculations 1 2 MEC 142 Physical Metallurgy 1 2 or 0 0 0	ClassLabClinicalGeneral Education Courses1.Required CoursesENG111Writing and Inquiry300Social/Behavioral Sciences Elective*300Major Courses1.Core Courses300Major Courses70 receive a degree, diploma or certificate from RCC, a student must have a gree, or better in all core courses for the program of study.120MAC111Machining Technology I2120MAC112Machining Technology II2120MAC122CNC Turning13002.Other Major Courses1200MAC113Machining Technology III2120MAC113Machining Technology III2120MAC113Machining Technology III2120MAC113Machining Technology III2120MAC113Machining Technology III2120MAC13Machining Technology III300MAC13Machining Calculations120MAC14210120MAC151Machining Calculations120MEC142Physical Metallurgy120or01200

C. Other Required Courses

-					
ACA 122	College Transfer Success	0	2	0	1

Total Credit Hours

37

*Approved Electives are listed on the page before Course Descriptions.

SEMESTER SCHEDULE COMPUTER-INTEGRATED MACHINING (DIPLOMA) (EVENING)

					Work/	
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
BPR	111	Print Reading	1	2	0	2
MAC	111	Machining Technology I	2	12	0	6
			3	16	0	9
		First Year – Spring Semester				
ENG	111	Writing and Inquiry	3	0	0	3
MAC	122	CNC Turning	1	3	0	
	124	CNC Milling	1	3	0	2 2 3
1011 IC	121	Social/Behavioral Sciences Elective*	3	0	0	3
		Social Denavioral Sciences Licenve		0	0	
			8	6	0	10
		First Year – Summer Semester				
MAC	151	Machining Calculations	1	2	0	2
MEC	142	Physical Metallurgy	1	2	0	2
or		,,				
WBL	112	Work-Based Learning I	0	0	20	2
			3	4	${20}$	4
		Second Year – Fall Semester	U	-	_0	·
BPR	121	Blueprint Reading: Mechanical	1	2	0	2
	112	Machining Technology II	2	12	0	6
1011 IC	112	Machining Teenhology II				
			3	14	0	8
		Second Year – Spring Semester	•			
MAC	113	Machining Technology III	2	12	0	6
			2	12	0	6
		37				

*Approved Electives are listed on the page before Course Descriptions.

COMPUTER-INTEGRATED MACHINING TECHNOLOGY (CERTIFICATE) (C50210) (EVENING) COURSE REQUIREMENTS

			Class	Lab	Work/ Clinical	Credit
BPR	111	Print Reading	1	2	0	2
MAC	111	Machining Technology I	2	12	0	6
		CNC Turning	1	3	0	2
MAC	124	CNC Milling	1	3	0	2
	Tot	al Credit Hours			12	

CIM: MACHINING TECHNOLOGY (CERTIFICATE) (C50210M) COURSE REQUIREMENTS

		Class	Lah	Work/ Lab Clinical Credit			
		Class	Lav	Chincar	Crean		
MAC 111	Machining Technology I	2	12	0	6		
MAC 112	2 Machining Technology II	2	12	0	6		
MAC 113	Machining Technology III	2	12	0	6		
]	Fotal Credit Hours			18			

Program Completion Guide COMPUTER-INTEGRATED MACHINING (DIPLOMA) (D50210) Machinist/CNC Operator

Student Name: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Machining Technology Certificate (C50210M) Course Requirements 18 credit hours: Complete Sections I (as required) and Section II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
MAC 111 Machining Technology I*	6	1 st year – fall	None		
MAC 112 Machining Technology II* (Not required for CIM Certificate)	6	2 nd year - spring	Pre: MAC 111		
MAC 113 Machining Technology III (Not required for CIM Certificate)	6	2 nd year - spring	Pre: MAC 112		

B. Computer-Integrated Machining Certificate (C50210) Course Requirements 12 credit hours: Complete Sections I (as required), Section II, A and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
BPR 111 Blueprint Reading*	2	1 st year – fall	Pre: DMA 010-020		
MAC 122 CNC Turning*	2	1 st year – spring	Pre: MAC 111 or MEC 111		
MAC 124 CNC Milling	2	1 st year – spring	Pre: MAC 111 or MEC 111		

C. Computer-Integrated Machining Diploma (D50210) Course Requirements 36 credit hours: Complete Sections I (as required) and Section II. A. B. and C.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
ENG 111 Writing and Inquiry	3	1 st year – spring	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
MAC 151 Machining Calculations	2	1 st year - summer	None		
MEC 142 Physical Metallurgy			Pre: MAC 111 or MEC 111		
or VBL 112 Work-Based Learning I		1 st year - summer	Pre: 9 SHC in major core courses		
BPR 121 Blueprint Reading: Mechanical	2	2 nd year – fall	Pre: BPR 111		

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.) Courses offered at RCC: ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	2 nd year – spring		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
		Date:
Student Name:	Student Signature:	
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

LAW ENFORCEMENT, COURTS, AND CORRECTIONS Criminal Justice Technology (A55180)

The Criminal Justice curriculum is designed to provide knowledge of criminal justice systems and operations. Study will focus on local, state, and federal law enforcement, judicial processes, corrections and security services. The criminal justice system's role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics and community relations. Additional study may include issues and concepts of government, counseling, communications, computers and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional officer, and loss prevention specialist.

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.

The Criminal Justice A.A.S. Degree Program at Richmond Community College is certified as meeting the educational and program requirements of the North Carolina Criminal Justice Education and Training Standards Commission.

				Work/			
				Class	Lab	Clinical	Credit
A.	General I	Educa	tion Courses				
	1. Requi	red Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
	MAT	143	Quantitative Literacy	2	2	0	3
	PSY	150	General Psychology	3	0	0	3
			Humanities/Fine Arts Elective*	3	0	0	3
B.	Major Co	ourses	5				
	1. Core (Course	es				
	To rec	eive a	degree, diploma or certificate from RCC, o	a student	must h	nave a gra	ade of "C"
	or bet	ter in	all core courses for the program of study.				
	CJC	111	Introduction to Criminal Justice	3	0	0	3
	CJC	112	Criminology	3	0	0	3
	CJC	113	Juvenile Justice	3	0	0	3
	CJC	131	Criminal Law	3	0	0	3
	CJC	212	Ethics & Community Relations	3	0	0	3
	CJC	221	Investigative Principles	3	2	0	4
			-				

CJC	231	Constitutional Law	3	0	0	3
Other	Major	Courses				
CIS	110	Introduction to Computers	2	2	0	3
CJC	132	Court Procedure & Evidence	3	0	0	3
CJC	141	Corrections	3	0	0	3
CJC	160	Terrorism: Underlying Issues	3	0	0	3
CJC	215	Organization & Administration	3	0	0	3
CJC	222	Criminalistics	3	0	0	3
CJC	233	Correctional Law	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
Electiv	ve Co	urse (Select one of the following courses)**				
HIS	131	American History I	3	0	0	3
HIS	132	American History II	3	0	0	3
HSE	225	Crisis Intervention	3	0	0	3
POL	120	American Government	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
her Re	quire	d Courses				
ACA	122	College Transfer Success	0	2	0	1
	Other CIS CJC CJC CJC CJC CJC CJC SOC Electiv HIS HIS HSE POL SPA SPA	Other Major CIS 110 CJC 132 CJC 141 CJC 160 CJC 215 CJC 222 CJC 233 SOC 210 Elective Con HIS HIS 132 HSE 225 POL 120 SPA 111 SPA 120 ther Require ACA	Other Major CoursesCIS110Introduction to ComputersCJC132Court Procedure & EvidenceCJC141CorrectionsCJC160Terrorism: Underlying IssuesCJC215Organization & AdministrationCJC222CriminalisticsCJC233Correctional LawSOC210Introduction to SociologyElective Course (Select one of the following courses)**HIS131American History IHIS132American GovernmentSPA111Elementary Spanish I	Other Major CoursesCIS110Introduction to Computers2CJC132Court Procedure & Evidence3CJC141Corrections3CJC160Terrorism: Underlying Issues3CJC215Organization & Administration3CJC222Criminalistics3CJC233Correctional Law3SOC210Introduction to Sociology3Elective Course (Select one of the following courses)**4HIS131American History I3HIS132American History II3HSE225Crisis Intervention3POL120American Government3SPA111Elementary Spanish I3SPA120Spanish for the Workplace3 ther Required Courses 0	Other Major Courses22CIS110Introduction to Computers22CJC132Court Procedure & Evidence30CJC141Corrections30CJC160Terrorism: Underlying Issues30CJC215Organization & Administration30CJC222Criminalistics30CJC233Correctional Law30SOC210Introduction to Sociology30Elective Course (Select one of the following courses)**430HIS131American History I30HS132American History II30HSE225Crisis Intervention30POL120American Government30SPA111Elementary Spanish I30SPA120Spanish for the Workplace30 ther Required Courses 4CA122College Transfer Success02	Other Major CoursesCIS110Introduction to Computers220CJC132Court Procedure & Evidence300CJC141Corrections300CJC160Terrorism: Underlying Issues300CJC215Organization & Administration300CJC222Criminalistics300CJC233Correctional Law300SOC210Introduction to Sociology300Elective Course (Select one of the following courses)****HIS131HIS131American History I300HSE225Crisis Intervention300POL120American Government300SPA111Elementary Spanish I300SPA120Spanish for the Workplace300ther Required CoursesACA122College Transfer Success020

65

Total Credit Hours *Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE

CRIMINAL JUSTICE TECHNOLOGY (DAY)

CRIMINAL JUSTICE TECHNOLOGI (DAI)											
			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					
CJC	111	Introduction to Criminal Justice	3	0	0	3					
ENG	111	Writing and Inquiry	3	0	0	3					
MAT	143	Quantitative Literacy	2	2	0	3					
PSY	150	General Psychology	3	0	0	3					
			13	6	0	16					
		First Year – Spring Semester	•								
ENG	112	Writing/Research in the Disciplines	3	0	0	3					
CJC	112	Criminology	3	0	0	3					
CJC	131	Criminal Law	3	0	0	3					
CJC	132	Court Procedure & Evidence	3	0	0	3					
CJC	141	Corrections	3	0	0	3					
SOC	210	Introduction to Sociology	3	0	0	3					
				_							
			18	0	0	18					

		Second Year – Fall Sem	ester			
CJC	113	Juvenile Justice	3	0	0	3
CJC	160	Terrorism: Underlying Issues	3	0	0	3
CJC	221	Investigative Principles	3	2	0	4
CJC	231	Constitutional Law	3	0	0	3
		Elective Course**	3	0	0	3
			15	2	0	16
		Second Year – Spring Ser	mester			
CJC	212	Ethics & Community Relations	3	0	0	3
CJC	215	Organization & Administration	3	0	0	3
CJC	222	Criminalistics	3	0	0	3
CJC	233	Correctional Law	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			15	0	0	15

Total Credit Hours

65

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE CRIMINAL JUSTICE TECHNOLOGY (EVENING)

			(Work/	
			Class	Lab	Clinical	l Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	131	Criminal Law	3	0	0	3
CJC	141	Corrections	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
			12	2	0	13
		First Year – Spring Semeste	r			
CIS	110	Introduction to Computers	2	2	0	3
CJC	112	Criminology	3	0	0	3
CJC	113	Juvenile Justice	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
			—			
			11	2	0	12
		nd and Third Years (Alternating Sequences) Ev	en Year	rs – Fal	ll Semes	ster
CJC	221	Investigative Principles	3	2	0	4
CJC	233	Correctional Law	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			9	2	0	10

Odd Years – Spring Semester

CJC	160	Terrorism: Underlying Issues	3	0	0	3
CJC	222	Criminalistics	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
PSY	150	General Psychology	3	0	0	3
			11	2	0	12
		Odd Years – Fall Semester				
CJC	132	Court Procedure & Evidence	3	0	0	3
CJC	231	Constitutional Law	3	0	0	3
		Elective Course**	3	0	0	3
			9	0	0	9
		Even Years – Spring Semester				
CJC	212	Ethics & Community Relations	3	0	0	3
CJC	215	Organization & Administration	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
			9	0	0	9

Total Credit Hours

65

*Approved Electives are listed on the page before the Course Descriptions.

CRIMINAL JUSTICE TECHNOLOGY (DIPLOMA) (D55180) COURSE REQUIREMENTS

		-			Work/	
Requi	ired:		Class	Lab	Clinical	Credit
CIS	110	Introduction to Computers	2	2	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	112	Criminology	3	0	0	3
CJC	113	Juvenile Justice	3	0	0	3
CJC	221	Investigative Principles	3	2	0	4
CJC	231	Constitutional Law	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
Any H	Five (5)	of the Following Criminal Justice Courses:				
CJC	131	Criminal Law	3	0	0	3
CJC	132	Court Procedure & Evidence	3	0	0	3
CJC	141	Corrections	3	0	0	3
CJC	160	Terrorism: Underlying Issues	3	0	0	3
CJC	212	Ethics & Community Relations	3	0	0	3
CJC	215	Organization & Administration	3	0	0	3
CJC	233	Correctional Law	3	0	0	3
	т	atal Credit Hours			12	

Total Credit Hours

43

			D			
				Work/		
			Class	Lab Clinical Cr		Credit
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	112	Criminology	3	0	0	3
CJC	221	Investigative Principles	3	2	0	4
CJC	222	Criminalistics	3	0	0	3
CJC	231	Constitutional Law	3	0	0	3
		Total Credit Hours			16	

CJT: LAW ENFORCEMENT (CERTIFICATE) (C55180L) COURSE REQUIREMENTS

CJT: CORRECTIONS (CERTIFICATE) (C55180C) COURSE REQUIREMENTS

				Work/		
			Class	Lab	Clinical	Credit
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	112	Criminology	3	0	0	3
CJC	113	Juvenile Justice	3	0	0	3
CJC	141	Corrections	3	0	0	3
CJC	212	Ethics and Community Relations	3	0	0	3
CJC	233	Correctional Law	3	0	0	3
	Το	otal Credit Hours			18	

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - CRIMINAL JUSTICE TECHNOLOGY (A55180) Law Enforcement, Courts, and Corrections

Student Name: ____

ID #: _____ Date of Enrollment: _____

A Criminal Background check may be required as a condition of employment in the criminal justice field.

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Law Enforcement Certificate (C55180L) Course Requirements 16 credit hours: Complete Section I (as required) and Section II,

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Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
CJC 111 Introduction to Criminal Justice*	3	(D, E) 1 st year – fall	None		
CJC 112 Criminology*	3	(D, E)1 st year – spring	None		
CJC 221 Investigative Principles* (not required for Corrections certificate)	4	(D) 2 nd year - fall (E) Even year - fall	Pre: DRE 098 or ENG 090 and RED 090		
CJC 222 Criminalistics (not required for Corrections certificate & diploma)	3	(D) 2 nd year – spring (E) Odd year – spring	Pre: DRE 098 or ENG 090 and RED 090		
CJC 231 Constitutional Law* (not required for Corrections certificate)	3	(D) 2 nd year - fall (E) Odd year - fall	Pre: DRE 098 or ENG 090 and RED 090		

B. Corrections Certificate (C55180C) Course Requirements 18 credit hours: Complete Section I (as required) and Section II, A and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
CJC 113 Juvenile Justice*	3	(D) 2 nd year - fall (E) 1 st year - spring	Pre: None Co: DRE 098		
CJC 141 Corrections (Diploma: course counts as one of the options)	3	(D) 1 st year - spring (E) 1 st year - fall	None		
CJC 212 Ethics & Community Relations* (Diploma: course counts as one of the options)	3	(D) 2 nd year - spring (E) Even year - spring	Pre: DRE 098 or ENG 090 and RED 090		
CJC 233 Correctional Law (Diploma: course counts as one of the options)	3	(D) 2 nd year - spring (E) Even year - fall	Pre: DRE 098 or ENG 090 and RED 090		

C. Criminal Justice Technology Diploma (D55180) Course Requirements 43 credit hours: Complete Section I (as required) and Section II, A, B, and C.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
CIS 110 Introduction to Computers	3	(D) 1 st year – fall (E) 1 st year – spring	Pre: DRE 097 Co: DRE 098		
ENG 111 Writing and Inquiry	3	(D, E) 1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
MAT 143 Quantitative Literacy	3	(D) 1 st year - fall (E) Odd year - spring	Pre: DMA 010-050, DRE 098 Co: ACA 122		
ENG 112 Writing/Research in the Disciplines	3	(D, E) 1 st year - spring	Pre: ENG 111		

Must take any five of the following to complete diploma requirements: (See other sections for prerequisites, corequisites, and recommended semester.)

CJC 131, CJC 132, CJC 141, CJC 160, CJC, 212, CJC 215, CJC 233

D. Criminal Justice Technology Associate in Applied Science Degree (A55180) Course Requirements 65 credit hours: Complete Sections I (as required) and Section II, A, B, C, and D.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	(D, E) 1 st year - fall	None		
PSY 150 General Psychology	3	(D) 1 st year - fall (E) Odd year - spring	Pre: DRE 098 or ENG 090 and RED 090		
CJC 131 Criminal Law*	3	(D) 1 st year - spring (E) 1 st year - fall	Pre: None Co: DRE 098		
CJC 132 Court Procedure & Evidence	3	(D) 1 st year - spring (E) Odd year - fall	Pre: None Co: DRE 098		
CJC 160 Terrorism: Underlying Issues	3	(D) 2 nd year – fall (E) Odd year - spring	Pre: None Co: DRE 098		
CJC 215 Organization Administration	3	(D) 2 nd year - spring (E) Even year - spring	Pre: DRE 098 or ENG 090 and RED 090		
SOC 210 Intro to Sociology	3	(D) 1 st year -spring (E) Even year - spring	Pre: DRE 098 or ENG 090 and RED 090		

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts elective from list below.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only). Courses offered at RCC:

ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, R	L 111 CDA 111
AKT 111. DKA 111. ENG 131. ENG 231. ENG 232. WUS 110. PHI 240. KEL 211. K	EL ZIZ. SPA ZII

AT 111, DAA 111, ENG 131, ENG 231, ENG 232, MOS 110, TH 240, REE 211, REE 212, STA 211						
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade			
	(D) 2 nd year – spring					
	(E) Even year – fall					
		A				

Required Elective (3 credits) (Choose one course from list below.)**

HIS 131, HIS 132, HSE 22	5, POL 120, SPA 111, SPA 120		
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	(D) 2 nd year – fall		
	(E) Odd year – fall		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

LAW ENFORCEMENT, COURTS, AND CORRECTIONS CRIMINAL JUSTICE TECHNOLOGY (A55180) (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	l Credit
A. G	eneral I	Educa	tion Courses				
1.	Requi	red Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
	MAT	143	Quantitative Literacy	2	2	0	3
	PSY	150	General Psychology	3	0	0	3
			Humanities/Fine Arts Elective*	3	0	0	3
B. M	lajor Co	ourses	1				
1.	Core C	Course	es				
	To rec	eive a	degree, diploma or certificate from RCC,	a student	must h	nave a gr	ade of "C"
	or bett	ter in l	all core courses for the program of study.				
	CJC	111	Introduction to Criminal Justice	3	0	0	3
	CJC	112	Criminology	3	0	0	3
	CJC	113	Juvenile Justice	3	0	0	3
			Criminal Law	3	0	0	3
	CJC	212	Ethics & Community Relations	3	0	0	3
	CJC	221	Investigative Principles	3	2	0	4
	CJC	231	Constitutional Law	3	0	0	3
2.	Other	Majoi	Courses				
	CIS	110	Introduction to Computers	2	2	0	3
	CJC	132	Court Procedure & Evidence	3	0	0	3
	CJC	141	Corrections	3	0	0	3
	CJC	160	Terrorism: Underlying Issues	3	0	0	3
	CJC	215	Organization & Administration	3	0	0	3
	CJC		Criminalistics	3	0	0	3
	CJC	233	Correctional Law	3	0	0	3
	SOC		Introduction to Sociology	3	0	0	3
3.		ve Co	urse (Select one of the following courses.)				
	HIS	131	American History I	3	0	0	3
	HSE	225	Crisis Intervention	3	0	0	3
	POL	120	American Government	3	0	0	3
	SPA		Elementary Spanish I	3	0	0	3
C. O			d Courses				
	ACA	122	College Transfer Success	0	2	0	1

Total Credit Hours

65

*Approved online Humanities/Fine Arts Electives are: ART 111, ENG 231, MUS 110, PHI 240, REL 211, and REL 212.

SEMESTER SCHEDULE CRIMINAL JUSTICE TECHNOLOGY (ONLINE)

		CRIMINAL JUSTICE TECHNOLOGI	(ONL)	INE)	Work/	
			Class	Lah	Clinical	Credit
		E:	Class	LaD	Clinical	Crean
	100	First Year – Fall Semester	0	2	0	1
ACA	122	College Transfer Success	0	2	0	1
CIS	110	Introduction to Computers	2	2	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
PSY	150	General Psychology	3	0	0	3
			13	6	0	16
		First Year – Spring Semester	•			
CJC	112	Criminology	3	0	0	3
CJC	131	Criminal Law	3	0	0	3
CJC	132	Court Procedure & Evidence	3	0	0	3
CJC	141	Corrections	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	Ō	3
SOC	210	Introduction to Sociology	3	0	ů 0	3
500	210		_			_
			18	0	0	18
		Second Year – Fall Semester				
CJC	113	Juvenile Justice	3	0	0	3
CJC	160	Terrorism: Underlying Issues	3	0	0	3
CJC	221	Investigative Principles	3	2	0	4
CJC	231	Constitutional Law	3	0	0	3
		Elective Course**	3	0	0	3
			15	2	0	<u> </u>
		Second Year – Spring Semeste		_	Ū	
CJC	212	Ethics & Community Relations	3	0	0	3
CJC	215	Organization & Administration	3	0	0	3
CJC	213	Criminalistics	3	0	0	3
CJC	233	Correctional Law	3	0	0	3
CIC	233	Humanities/Fine Arts Elective*	3	0	0	3
		Humanites/Time Arts Licenve	5	0	0	5
			15	0	0	15

Total Credit Hours

65

*Approved online Humanities/Fine Arts Electives are: ART 111, ENG 231, MUS 110, PHI 240, REL 211, and REL 212.

**Approved online CJC electives are: HIS 131, HSE 225, POL 120, and SPA 111.

					Work/	
Requi	ired:		Class	Lab	Clinical	Credit
CIS	110	Introduction to Computers	2	2	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	112	Criminology	3	0	0	3
CJC	113	Juvenile Justice	3	0	0	3
CJC	221	Investigative Principles	3	2	0	4
CJC	231	Constitutional Law	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
Any F	live (5)	of the Following Criminal Justice Courses:				
CJC	131	Criminal Law	3	0	0	3
CJC	132	Court Procedure & Evidence	3	Ő	ů 0	3
CJC	141	Corrections	3	0	0	3
CJC	160	Terrorism: Underlying Issues	3	0	0	3
CJC	212	Ethics & Community Relations	3	0	0	3
CJC	215	Organization & Administration	3	0	0	3
CJC	233	Correctional Law	3	0	0	3
Total Credit Hours					43	

CRIMINAL JUSTICE TECHNOLOGY (DIPLOMA) (D55180) (ONLINE) COURSE REQUIREMENTS

CJT: LAW ENFORCEMENT (CERTIFICATE) (C55180L) (ONLINE) COURSE REQUIREMENTS

			Work/			
			Class	Lab	Credit	
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	112	Criminology	3	0	0	3
CJC	221	Investigative Principles	3	2	0	4
CJC	222	Criminalistics	3	0	0	3
CJC	231	Constitutional Law	3	0	0	3

Total Credit Hours

16

CJT: CORRECTIONS (CERTIFICATE) (C55180C) (ONLINE) COURSE REQUIREMENTS

		C C		Work/		
			Class	Lab	Clinical	Credit
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	112	Criminology	3	0	0	3
CJC	113	Juvenile Justice	3	0	0	3

0.00	233	Total Credit Hours	5	0	18	5
CIC	233	Correctional Law	3	0	0	3
CJC	212	Ethics and Community Relations	3	0	0	3
CJC	141	Corrections	3	0	0	3

Course CJC 131 Criminal Law focuses on North Carolina law.

A criminal background check may be required as a condition of employment in the criminal justice field.

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: ART 111, CIS 110, CJC 111, CJC 141, ENG 111, ENG 112, ENG 231, HIS 131, HSE 225, MAT 143, MUS 110, PHI 240, POL 120, PSY 150, REL 211, REL 212, SOC 210, 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.

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - CRIMINAL JUSTICE TECHNOLOGY (A55180) (Online) Law Enforcement, Courts, and Corrections

Student Name:	 ID #:	Catalog:	
Advisor Name:	Contact Information:		

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

Criminal Justice Technology Associate in Applied Science Degree ONLINE (A55180) Course Requirements 65 credit hours.**

		Recommended	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Planned	Grade
ACA 122 College Transfer Success	1	1 st year - fall		
CIS 110 Introduction to Computers	3	1 st year - fall		
CJC 111 Introduction to Criminal Justice*	3	1 st year - fall		
ENG 111 Writing and Inquiry	3	1 st year - fall		
MAT 143 Quantitative Literacy	3	1 st year - fall		
PSY 150 General Psychology	3	1 st year - fall		
CJC 112 Criminology*	3	1 st year - spring		
CJC 131 Criminal Law*	3	1 st year - spring		
CJC 132 Court Procedure & Evidence	3	1 st year - spring		
CJC 141 Corrections	3	1 st year - spring		
ENG 112 Writing/Research in the Disciplines	3	1 st year - spring		
SOC 210 Intro to Sociology	3	1 st year - spring		
CJC 113 Juvenile Justice*	3	2 nd year - fall		
CJC 160 Terrorism: Underlying Issues	3	2 nd year - fall		
CJC 221 Investigative Principles*	4	2 nd year - fall		
CJC 231 Constitutional Law*	3	2 nd year - fall		
CJC 212 Ethics & Community Relations*	3	2 nd year - spring		
CJC 215 Organization Administration	3	2 nd year - spring		
CJC 222 Criminalistics	3	2 nd year - spring		
CJC 233 Correctional Law	3	2 nd year - spring		

Electives Requirements**

Humanities/Fine Arts Electives (3 credits) (Choose one course from list below.)**										
Courses offered at RCC:										
ART 111, ENG 231, MUS	110, PHI 240, REL 211, REL 212									
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade							
	2 nd year – fall or spring									

Required Elective (3 credits) (Choose one course from list below.)**									
HIS 131, HSE 225, POL 120, SPA 111									
Course Recommended Semester Semester Registered/Planned Semester Completed/Grade									
	2 nd year – fall or spring								

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

Course CJC 131 Criminal Law focuses on North Carolina law.

In order for students to earn a Criminal Justice Diploma, the following courses must be taken: CIS 110, CJC 111, CJC 112, CJC 113, CJC 221, CJC 231, ENG 111, ENG 112, and MAT 143. And, select any five (5) of the following courses: CJC 131, CJC 132, CJC 141, CJC 160, CJC 212, CJC 215, and CJC 233.

In order for students to earn a Law Enforcement Certificate, the following courses must be taken: CJC 111, CJC 112, CJC 221, CJC 222, and CJC 231.

In order for students to earn a Corrections Certificate, the following courses must be taken: CJC 111, CJC 112, CJC 113, CJC 141, CJC 212, and CJC 233.

A criminal background check may be required as a condition of employment in the criminal justice field.

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: ART 111, CIS 110, CJC 111, CJC 141, ENG 111, ENG 112, ENG 112, ENG 231, HIS 131, HSE 225, MAT 143, MUS 110, PHI 240, POL 120, PSY 150, REL 211, REL 212, SOC 210, 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.

DIALYSIS TECHNICIAN Dialysis Technology (Diploma) (D45300)

The Dialysis Technology curriculum provides individuals with the theoretical/clinical skills to care for patients/clients being treated for acute/chronic renal diseases.

Students will care for patients/clients undergoing dialysis and will maintain dialysis equipment.

Graduates of this program may be eligible to take the Certification Examination for Nephrology Technicians following one year of work experience.

Employment opportunities include hospitals, renal dialysis facilities, and clinics.

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.

		2			U		Work/	
					Class	Lab	Clinical	Credit
А.	Gene	eral E	duca	tion Courses				
	1. R	Require	ed Co	ourses				
	E	ENG	111	Expository Writing	3	0	0	3
	В	BIO	163	Basic Anatomy & Physiology	4	2	0	5
В.	Majo	or Cou	urses					
	1. C	Core C	ourse	S				
	Т	o rece	eive a	degree, diploma or certificate from RCC,	a student	must	have a gr	ade of
	"	C'' or	better	r in all core courses for the program of stu	ıdy.			
	D	DIA	101	Introduction to Dialysis Technology	5	6	12	11
	D	DIA	102	Dialysis for Special Populations	5	3	15	11
	D	DIA	103	Ethical/Legal Issues in Dialysis	3	0	0	3
	D	DIA	104	Care of the Complex Renal Patient	1	0	12	5
	2. C	Other N	Major	Courses				
	C	CIS	110	Introduction to Computers	2	2	0	3
	Ν	/IED	121	Medical Terminology I	3	0	0	3
C.	Othe	er Req	uired	l Courses				
	А	ACA	122	College Transfer Success	0	2	0	1
		,	Total	Credit Hours			45	

SEMESTER SCHEDULE DIALYSIS TECHNOLOGY

					Work/	
				т. 1		
			Class	Lab	Clinica	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
DIA	101	Introduction to Dialysis Technology	5	6	12	11
MED	121	Medical Terminology I	3	0	0	3
			8	6	12	15
		First Year – Spring Semester	•			
BIO	163	Basic Anatomy & Physiology	4	2	0	5
DIA	102	Dialysis for Special Populations	5	3	15	11
						_
			9	5	15	16
		First Year – Summer Semeste	er			
CIS	110	Introduction to Computers	2	2	0	3
DIA	103	Ethical/Legal Issues in Dialysis	3	0	0	3
DIA	104	Care of the Complex Renal Patient	1	0	12	5
ENG	111	Writing and Inquiry	3	0	0	3
			9	2	12	14
		Total Credit Hours			45	

Program Completion Guide DIALYSIS TECHNOLOGY (DIPLOMA) (D45300) Dialysis Technician

Student Name:		ID #:	Date of Enrollme	nt:	
ection I: Developmental Courses (i	f needed)				
Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Dialysis Technology (D45300) Course Requirements 45 credit hours: Complete Section I (as required) and Section II, A.

				Semester	Semester
		Recommended	Prerequisites/	Registered/	Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
DIA 101 Intro to Dialysis Technology*	11	1 st year – fall	Pre: DMA 010-050, DRE 098		
MED 121 Medical Terminology I	3	1 st year – fall	Pre: DRE 098 or ENG 090 and		
MED 121 Medical Terminology I	5	i year - ian	RED 090		
BIO 163 Basic Anatomy & Physiology	5	1 st year – spring	Pre: DMA 010-050 or MAT 070,		
BIO 105 Basic Anatomy & Physiology	5	T, And - shining	DRE 098 or ENG 090 and RED 090		
DIA 102 Dialysis for Special Populations*	11	1 st year – spring	Pre: DIA 101		
CIS 110 Introduction to Computers	3	1 st year – summer	Pre: DRE 097		
cis 110 introduction to computers	5	1 year – summer	Co: DRE 098		
DIA 103 Ethical/Legal Issues in Dialysis*	3	1 st year – summer	Pre: DIA 102		
DIA 104 Care of the Complex Renal System*	5	1 st year – summer	Pre: DIA 102		
			Pre: DRE 098 or ENG 090 and		
ENG 111 Writing and Inquiry	3	1 st year – summer	RED 090		
			Co: ACA 122		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

Early Childhood Administration (Certificate) (C55850)

This curriculum prepares individuals pursuing administrating roles in diverse child care settings to effectively work with children, families and teachers. The certificate is composed of learning opportunities in developmental theories, competency and evidence-based professional knowledge, administrative skills and leadership qualities.

Course work includes foundations in early childhood education, physical/nutritional needs of young children, safety issues in the care of young children; communication and leadership skills with teachers, families and children; programming and staffing, budgeting/financial management and marketing, and rules and regulations of early childhood programs.

Employment opportunities include entrepreneurship and/or management of child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start and Head Start programs, and other programs.

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.

	Work/			
	Class	Lab	Clinical	Credit
A. Major Courses				
1. Core Courses				
To receive a degree, diploma or certificate from RCC, a	a student	must k	nave a gr	ade of "C"
or better in all core courses for the program of study.				
EDU 119 Intro to Early Childhood Education	4	0	0	4
EDU 131 Child, Family, & Community	3	0	0	3
EDU 153 Health, Safety, & Nutrition	3	0	0	3
EDU 261 Early Childhood Administration I	3	0	0	3
EDU 262 Early Childhood Administration II	3	0	0	3
Total Credit Hours			16	

Program Planning Guide EARLY CHILDHOOD ADMINISTRATION (CERTIFICATE) (C55850)

Student Name: ______ ID #: _____ Date of Enrollment: ______

A Criminal Background check may be required as a condition of employment in the childhood education field.

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II: Early Childhood Administration Certificate (C55850) Course Requirements 16 credit hours: Complete Sections I (as required) and II.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
EDU 119 Introduction to Early Childhood Education*	4		None		
EDU 131 Child, Family and Community*	3		Pre: None Co: DRE 097		
EDU 153 Health, Safety and Nutrition*	3		Pre: None Co: DRE 097		
EDU 261 Early Childhood Administration I*	3		Pre: None Co: EDU 119 and DRE 098		
EDU 262 Early Childhood Administration II*	3		Pre: DRE-098, EDU-119 and EDU-261 Co: None		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

EARLY CHILDHOOD SPECIALIST Early Childhood Education (A55220)

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

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.

				Work/			
				Class	Lab	Clinical	Credit
А.	General H	Educa	tion Courses				
	1. Requir	red Co	Durses				
	COM	231	Public Speaking	3	0	0	3
	or						
	ENG	112	Writing/Research in the Disc	3	0	0	3
	ENG	111	Writing and Inquiry	3	0	0	3
	MAT	143	Quantitative Literacy	2	2	0	3
	PSY	150	General Psychology	3	0	0	3
			Humanities/Fine Arts Elective*	3	0	0	3
В.	Major Co	urses	i				
	1. Core C	Course	es				
	To rec	eive a	degree, diploma or certificate from RCC,	a student	must h	nave a gra	ade of "C"
	or bett	ter in d	all core courses for the program of study.				
	EDU	119	Intro to Early Childhood Education	4	0	0	4
	EDU	131	Child, Family, & Community	3	0	0	3
	EDU	144	Child Development I	3	0	0	3
	EDU	145	Child Development II	3	0	0	3
	EDU	146	Child Guidance	3	0	0	3
	EDU	151	Creative Activities	3	0	0	3
	EDU	153	Health, Safety, & Nutrition	3	0	0	3

	EDU	221	Children with Exceptionalities	3	0	0	3
	EDU	234	Infants, Toddlers, & Twos	3	0	0	3
	EDU	280	Language & Literacy Experiences	3	0	0	3
	EDU	284	Early Child Capstone Practicum	1	9	0	4
2.	Other		Courses				
	EDU H	Electiv	ves (Select a minimum of 14 credit hours from	n the f	ollowin	g)**	
	CIS	110	Introduction to Computers	2	2	0	3
	EDU	114	Intro to Family Childcare	3	0	0	3
	EDU	154	Social/Emotional/Behavioral Dev	3	0	0	3
	EDU	158	Healthy Lifestyles-Youth	3	0	0	3
	EDU		Introduction to Exceptional Children	3	0	0	3
	EDU	162	Observation & Assessment in ECE	3	0	0	3
	EDU	163	Classroom Mgt & Instruction	3	0	0	3
	EDU		Becoming a Professional in ECE	3	0	0	3
	EDU	-	Foundations of Education	4	0	0	4
	EDU	223	Specific Learning Disabilities	3	0	0	3
	EDU	235	School-Age Dev & Programs	3	0	0	3
	EDU	247	Sensory & Physical Disabilities	3	0	0	3
	EDU		Developmental Delays	3	0	0	3
	EDU	250	PRAXIS I Preparation	1	0	0	1
	EDU	259	Curriculum Planning	3	0	0	3
	EDU	261	Early Childhood Administration I	3	0	0	3
	EDU	262	Early Childhood Administration II	3	0	0	3
	EDU	263	School-Age Program Administration	2	0	0	2
	EDU	271	Educational Technology	2	2	0	3
	EDU	275	Effective Teacher Training	2	0	0	2
	EDU	281	Instructional Strategies/Reading & Writing	2	2	0	3
	EDU	289	Advance Issues/School-Age	2	0	0	2
	WBL	111	Work-Based Learning I	0	0	10	1
	WBL	115	Work-Based Learning Seminar I	1	0	0	1
Ot	her Re	quire	d Courses				
	ACA	122	College Transfer Success	0	2	0	1

Total Credit Hours

65

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE EARLY CHILDHOOD EDUCATION

				Work/		
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
EDU	119	Intro to Early Childhood Education	4	0	0	4
EDU	131	Child, Family, & Community	3	0	0	3
EDU	144	Child Development I	3	0	0	3

C.

ENG	111	Writing and Inquiry EDU Elective I	3 1-4	0 0-2	0 0	3 1-4
			 14-17	0-2	0	 14-17
		First Year – Spring Semeste	r			
COM	231	Public Speaking	3	0	0	3
or						
ENG	112	Writing/Research in the Disc	3	0	0	3
EDU	145	Child Development II	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
EDU	151	Creative Activities	3	0	0	3
EDU	153	Health. Safety. & Nutrition	3	0	0	3
EDU	234	Infants, Toddlers, & Twos	3	0	0	3
			18	0	0	18
		Second Year – Fall Semester	r			
EDU	221	Children with Exceptionalities	3	0	0	3
EDU	280	Language & Literacy Experiences	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		EDU Elective II	1-4	0-2	0	1-4
		EDU Elective III	1-4	0-2	0	1-4
		Humanities/Fine Arts Elective*	3	0	0	3
					—	
			14-20	0-4	0	14-20
		Second Year – Spring Semest	er			
EDU	284	Early Child Capstone Practicum	1	9	0	4
MAT	143	Quantitative Literacy	2	2	0	3
		EDU Elective IV	1-4	0-2	0	1-4
		EDU Elective V	1-4	0-2	0	1-4
			5-11	11-15	0	 9-15
	T				(-	

65

Total Credit Hours *Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE EARLY CHILDHOOD EDUCATION (CERTIFICATE) (C55220) Work/

				VV ОГК/	
		Class	Lab	Clinical	Credit
	First Year – Fall Semester				
122	College Transfer Success	0	2	0	1
119	Intro to Early Childhood Education	4	0	0	4
131	Child, Family, & Community	3	0	0	3
144	Child Development I	3	0	0	3
	119 131	 122 College Transfer Success 119 Intro to Early Childhood Education 131 Child, Family, & Community 	First Year – Fall Semester122College Transfer Success0119Intro to Early Childhood Education4131Child, Family, & Community3	First Year – Fall Semester122College Transfer Success02119Intro to Early Childhood Education40131Child, Family, & Community30	ClassLabClinical122College Transfer Success020119Intro to Early Childhood Education400131Child, Family, & Community300

			10	2	0	11
		First Year – Spring Semester				
EDU	145	Child Development II	3	0	0	3
EDU	173	Becoming a Professional in ECE	3	0	0	3
			6	0	0	6
	Te	otal Credit Hours			17	

SEMESTER SCHEDULE ECE: SPECIAL EDUCATION (DIPLOMA) (D55220)

		ECE. SI ECIAL EDUCATION (DILLON	$(\mathbf{D},$	55220)		
					Work/	a 11
			Class	Lab	Clinical	Credit
		First Year – Fall Semester	_	_		
	122	College Transfer Success	0	2	0	1
EDU	119	Intro to Early Childhood Education	4	0	0	4
EDU	131	Child, Family, & Community	3	0	0	3
EDU	144	Child Development I	3	0	0	3
EDU	145	Child Development II	3	0	0	3
			13	2	0	14
		First Year – Spring Semester	ſ			
COM	231	Public Speaking	3	0	0	3
or						
ENG	111	Writing and Inquiry	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
EDU	151	Creative Activities	3	0	0	3
EDU	153	Health, Safety, & Nutrition	3	0	0	3
	221	Children with Exceptionalities	3	0	0	3
			15	0	0	15
		Second Year – Fall Semester	-	0	0	15
EDU	154	Social/Emotional/Behavioral Development	3	0	0	2
	223		3	0	0	3
		Specific Learning Disabilities	3			3 3
	247	Sensory/Physical Disabilities		0	0	3 3
EDU	248	Developmental Delays	3	0	0	3
			12	0	0	12
	Tot	al Credit Hours			41	

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - EARLY CHILDHOOD EDUCATION (A55220) Early Childhood Specialist

Student Name:

____ ID#

Date of Enrollment:

A Criminal Background check may be required as a condition of employment in the early childhood education field.

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Early Childhood Education Certificate (C55220) Course Requirements 17 credit hours: Complete Sections I (as required) and Section II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
EDU 119 Intro to Early Childhood Education*	4	1 st year - fall	None		
EDU 131 Child, Family, and Community*	3	1 st year – fall	Co: DRE 097		
EDU 144 Child Development I*	3	1 st year – fall	Co: DRE 097		
EDU 145 Child Development II*	3	1 st year – spring (1 st year fall for diploma)	Co: DRE 097		
EDU 173 Becoming a Professional in ECE (not required for diploma, can be used as elective)	3	1 st year – spring	Co: DRE 097		

B. Early Childhood Education (Special Education) Diploma (D55220) Course Requirements 41 credit hours: Complete Sections I (as required) and Section II, A, B, and C.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ENG 111 Writing and Inquiry (or COM 231 required for diploma)	3	1 st year – fall (1 st year spring for diploma)	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
CIS 110 Introduction to Computers (not required for diploma, counts as an elective for the degree)	3	1 st year – fall	Pre: DRE 097 Co: DRE 098		
COM 231 Public Speaking (or ENG 111 required for diploma) or	3	1 st year – spring	Pre: DRE 098 or ENG 090 and RED 090		
ENG 112 Writing/Research in the Disciplines (not required for diploma)			Pre: ENG 111		
EDU 146 Child Guidance*	3	1 st year – spring	Co: DRE 098		
EDU 151 Creative Activities*	3	1 st year - spring	Co: DRE 097		
EDU 153 Health, Safety, and Nutrition*	3	1 st year - spring	Co: DRE 097		
EDU 221 Children with Exceptionalities*	3	2 nd year – fall (1 st year spring for diploma)	Pre: EDU 144, EDU 145 Co: DRE 098		

C. Special Education Concentration for Diploma (courses not required for degree but can be used as electives)

EDU 154 Social/Emotional/Behavioral	2	2 nd year – fall	Pre: EDU 144, EDU 145	
Development	5	2 year – Tali	Co: DRE 097	
EDU 222 Specific Learning Dischilition	'n	2 nd year – fall	Pre: EDU 144, EDU 145	
EDU 223 Specific Learning Disabilities	3	2 nd year – Tall	Co: DRE 098	
EDU 247 Sensory (Dhysical Disphilition	2	2 nd ucar fall	Pre: EDU 144, EDU 145	
EDU 247 Sensory/Physical Disabilities	3	2 nd year – fall	Co: DRE 098	
EDU 248 Developmental Delays	2	2 nd year – fall	Pre: EDU 144, EDU 145	
EDO 246 Developmental Delays	3	2 ^m year – Idli	Co: DRE 098	

D. Early Childhood Education Associate in Applied Science Degree (A55220) Course Requirements 65 credit hours: Complete Sections I (as required) and Section II, A, B, C, and D and required electives.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
Courses	CI.	Jennester	Pre: EDU 119	Flatilieu	Grade
EDU 234 Infants, Toddlers, & Twos*	3	1 st year – spring	Co: DRE 098		
EDU 280 Language and Literacy Experience*	3	2 nd year – fall	Co: DRE 098		
EDU 284 Early Child Capstone Practicum*	4	2 nd year – spring	Pre: EDU 119, EDU 144, EDU 145, EDU 146, EDU 151 Co: DRE 098		
MAT 143 Quantitative Literacy	3	2 nd year – spring	Pre: DMA 010-050, DRE 098 Co: ACA 122		
PSY 150 General Psychology	3	2 nd year – spring	Pre: DRE 098 or ENG 090 and RED 090		

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts elective from list below unless a specific course is required above.)

Courses offered at RCC:								
ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211								
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade					
	2 nd year – fall							

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
262, EDU 263, EDU 271, EDU 275, EDU 281, EDU 289, WBL 111, WBL 115							
CIS 110, EDU 114, EDU 154, EDU 158, EDU 161, EDU 162, EDU 163, EDU 173, EDU 216, EDU 223, EDU 235, EDU 247, EDU 248, EDU 250, EDU 259, EDU 261, EDU							
Larry childhood Eddcation (Select a minimum of 14 credit hours nom the following.)							

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	1 st year – fall		
	2 nd year – fall		
	2 nd year – spring		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

Early Childhood Preschool (Certificate) (C55860)

This curriculum prepares individuals to work with preschool aged children (3-5) in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with preschool children.

Course work includes child growth and development, physical/nutritional needs of preschool children, safety issues in the care of preschool children; care and guidance; communication skills with families and children; design and implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate preschool programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and other preschool programs.

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.

			Work/			
			Class	Lab	Clinical	l Credit
A. Major Co	urses	6				
1. Core C	Course	es				
To rece	eive a	degree, diploma or certificate from RCC,	a student	must h	ave a gr	ade of "C"
or bett	er in d	all core courses for the program of study.			-	-
EDU	119	Intro to Early Childhood Education	4	0	0	4
EDU	131	Child, Family, & Community	3	0	0	3
EDU	145	Child Development II	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
EDU	153	Health, Safety, & Nutrition	3	0	0	3
Total Credit Hours					16	

Program Planning Guide EARLY CHILDHOOD PRESCHOOL (CERTIFICATE) (C55860)

Student Name: ______ ID #: _____ Date of Enrollment: _____

A Criminal Background check may be required as a condition of employment in the childhood education field.

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II: Early Childhood Preschool Certificate (C55860) Course Requirements 16 credit hours: Complete Sections I (as required) and II.

				Semester	Semester
		Recommended	Prerequisites/	Registered/	Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
EDU 119 Introduction to Early Childhood Education*	4		None		
EDU 131 Child, Family and Community*	3		Pre: None Co: DRE 097		
EDU 145 Child Development II*	3		Co: DRE 097		
EDU 146 Child Guidance*	3		Co: DRE 098		
EDU 153 Health, Safety and Nutrition*	3		Pre: None Co: DRE 097		

NOTES: *All courses must be completed with a grade of "C" or better.

******See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

Electric Utility Substation and Relay Technology (A50510)

The Electric Utility Substation and Relay Technology curriculum provides the skills to maintain high voltage equipment and protective systems for the electric utility transmission system. Training in operation and maintenance of critical infrastructure associated with the transmission grid is included.

Courses will develop an understanding of maintenance/troubleshooting on transmission equipment. Courses include theory in three phase power, protective relaying, power transformers, voltage regulators, capacitors, and power circuit breakers. The skills apply to the electric utility industry and numerous other industries.

Graduates should qualify for entry-level employment in the electric utility industry and industrial power facilities. Employment opportunities include: control systems, instrumentation and control in general industry, electric utility industry, green energy markets, or positions with equipment related to power transmission.

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.

						Work/	
				Class	Lab	Clinical	Credit
A.	General I	Educa	tion Courses				
	1. Requi	red Co	Durses				
	ECO	252	Principles of Macroeconomics	3	0	0	3
	ENG	111	Writing and Inquiry	3	0	0	3
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
	MAT	171	Precalculus Algebra	3	2	0	4
			Humanities/Fine Arts Elective*	3	0	0	3
B.	Major Co	ourses	l				
	1. Core (
	To rec	eive a	degree, diploma or certificate from RCC, a	student	must k	ave a gro	ide of "C"
	or bet	ter in d	all core courses for the program of study.				
	CIS	110	Introduction to Computers	2	2	0	3
	EUS	110	Intro to Electric Utility Industry	3	3	0	4
	EUS	130	Electric Utility Print Reading	3	2	0	4
	EUS	210	Large High Voltage Power Transformer I	2	3	0	3
	EUS	215	Large High Voltage Power Transformer II	2	3	0	3
	EUS	220	High Voltage Power Circuit Breakers	2	3	0	3
	EUS	230	Electric Utility Protective Relaying I	2	3	0	3
	EUS	235	Electric Utility Protective Relaying II	2	3	0	3
	EUS	240	Substation Ancillary Systems	2	3	0	3

World/

	EUS	260	Capstone & Case Studies in EUSRT	0	4	0	2
2.	Other	Majoi	Courses				
	ELC	128	Introduction to PLC	2	3	0	3
	ELC	131	Circuit Analysis I	3	3	0	4
	ELN	229	Industrial Electronics	3	3	0	4
	EUS	225	Electrical Utility Safety & Human Perf.	2	0	0	2
	EUS	255	Electrical Utility Troubleshooting	1	3	0	2
	MAT	172	Precalculus Trigonometry	3	2	0	4
	PHY	122	Applied Physics II	3	2	0	4
Ot	her Ma	njor C	Choice (1 course required)				
	ELC	117	Motors and Controls	2	6	0	4
	or						
	ELN	231	Industrial Controls	2	3	0	3
C. Other Required Courses							
	ACA	122	College Transfer Success	0	2	0	1
Total Credit Hours						74-7	75

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE ELECTRIC UTILITY SUBSTATION AND RELAY TECHNOLOGY

					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
ELC	131	Circuit Analysis I	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
EUS	110	Intro to Electric Utility Industry	3	3	0	4
MAT	171	Precalculus Algebra	3	2	0	4
			14	12	0	19
		First Year – Spring Semester	•			
ELC	117	Motors and Controls	2	6	0	4
or						
ELN	231	Industrial Controls	2	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
EUS	130	Electric Utility Print Reading	3	2	0	4
EUS	210	Large High Voltage Power Transformers I	2	3	0	3
MAT	172	Precalculus Trigonometry	3	2	0	4
PHY	122	Applied Physics II	3	2	0	4
			<u> </u>	 12-15	0	21-22
			10	12-13	U	<u>~1-~</u>

Second Year – Fall Semester								
ECO	252	Principles of Macroeconomics	3	0	0	3		
ELN	229	Industrial Electronics	3	3	0	4		
EUS	215	Large High Voltage Power Transformers II	2	3	0	3		
EUS	225	Electric Utility Safety & Human Performance	2	0	0	2		
EUS	230	Electric Utility Protective Relaying I	2	3	0	3		
EUS	240	Substation Ancillary Systems	2	3	0	3		
			14	12	0	18		
		Second Year – Spring Semest	er					
ELC	128	Intro to PLC	2	3	0	3		
EUS	220	High Voltage Power Circuit Breakers	2	3	0	3		
EUS	235	Electric Utility Protective Relaying II	2	3	0	3		
EUS	255	Electric Utility Troubleshooting	1	3	0	2		
EUS	260	Caps & Case Stud in EUSRT	0	4	0	2		
		Humanities/Fine Arts Elective*	3	0	0	3		
			10	16	0	16		

Second Year – Fall Semester

Total Credit Hours

74-75

*Approved Electives are listed on the page before the Course Descriptions.

EUSRT: BASIC POWER SYSTEMS (CERTIFICATE) (C50510) COURSE REQUIREMENTS

				Work/		
			Class	Lab	Clinical	Credit
CIS	110	Introduction to Computers	2	2	0	3
ELC	131	Circuit Analysis I	3	3	0	4
EUS	110	Intro to Electric Utility Industry	3	3	0	4
EUS	130	Electric Utility Print Reading	3	2	0	4
EUS	210	Large High Voltage Power Transformers I	2	3	0	3
			_			
			13	13	0	18

Total Credit Hours

18
Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - ELECTRIC UTILITY SUBSTATION AND RELAY TECHNOLOGY (A50510)

Student Name: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)									
			Prerequisites/						
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester				
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None						
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010						
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020						
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060						
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060						
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070						
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070						
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070						
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070						
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070						
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070						

Section II:

A: Electric Utility Substation and Relay Technology: Basic Power Systems Certificate (C50510) Course Requirements 18 credit hours: Complete Sections I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
CIS 110 Introduction to Computers*	3	1 st year – fall	Pre: DRE 097 Co: DRE 098		
ELC 131 Circuit Analysis I	4	1 st year – fall	Pre: DMA 010-050 or MAT 070 Co: DRE 096		
EUS 110 Intro to Electric Utility Industry*	4	1 st year — fall	Pre: DRE 098 or ENG 090 and RED 090, DMA 010-080 or MAT 080		
EUS 130 Electric Utility Print Reading*	4	1 st year – spring	Pre: ELC 131 and EUS 110		
EUS 210 Large High Voltage Power Transfmr I*	3	1 st year – spring	Pre: EUS 110		

B: Electric Utility Substation and Relay Technology Associate in Applied Science Degree (A50510) Course Requirements: 74-75 credit hours: Complete Sections I (as required) and Section II, A and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
ENG 111 Writing and Inquiry	3	1 st year – fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
MAT 171 Precalculus Algebra	4	1 st year – fall	Pre: DMA 010-080 or MAT 080		
ELC 117 Motors and Controls	4		Pre: ELC 112 or ELC 131		
or		1 st year – spring			
ELN 231 Industrial Controls	3		Pre: ELC 131		
ENG 112 Writing/Research in the Disciplines	3	1 st year – spring	Pre: ENG 111		
MAT 172 Precalculus Trigonometry	4	1 st year – spring	Pre: MAT 171		
PHY 122 Applied Physics II	4	1 st year – spring	Pre: None Co: MAT 171		
ECO 252 Principles of Macroeconomics	3	2 nd year – fall	Pre: DMA 010-020 or MAT 060, DRE 097 or RED 090 Co: DRE 098		

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EUS 215 Large High Voltage Power Transfmr II*	3	2 nd year – fall	Pre: EUS 210	
EUS 225 Elec. Util. Safety & Human Performance	2	2 nd year – fall	Pre: EUS 110 and EUS 130 Co: None	
EUS 230 Electric Utility Protective Relaying I*	3	2 nd year – fall	Pre: EUS 130	
EUS 240 Substation Ancillary Systems*	3	2 nd year – fall	Pre: EUS 130	
ELN 229 Industrial Electronics	4	2 nd year – fall	Pre: ELC 112 or ELC 131	
ELC 128 Introduction to PLC	3	2 nd year – spring	Pre: ELC 112 or ELC 131	
EUS 220 High Voltage Power Circuit Breakers*	3	2 nd year – spring	Pre: ELC 117 or ELN 231, and EUS 130	
EUS 235 Electric Utility Protective Relaying II*	3	2 nd year – spring	Pre: EUS 230	
EUS 255 Elect. Utility Troubleshooting	2	2 nd year – spring	Pre: EUS 215 and EUS 230 Co: EUS 235	
EUS 260 Capstone & Case Studies in EUSRT*	2	2 nd year – spring	Pre: EUS 215 Co: EUS 235	

Electives: (Must take one Humanities/Fine Arts from lists below unless a specific

course is required above.)

Humanities/Fine Arts Electives (3 credits)** Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).

Courses offered at RCC:

ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	2 nd year - spring		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

ELECTRIC UTILITY TRANSFORMER TEST SPECIALIST (DIPLOMA) (D50510) COURSE REQUIREMENTS

							Work/	
					Class	Lab	Clinica	l Credit
A.	Ge	eneral H	Educa	tion Courses				
	1.	Requir	red Co	Durses				
		ENG	111	Writing and Inquiry	3	0	0	3
		MAT	171	Precalculus Algebra	3	2	0	4
				*Humanities/Fine Arts Elective	3	0	0	3
B.	Ma	ajor Co	ourses	6				
	1.	Core C	Course	es				
		To rec	eive a	degree, diploma or certificate from RCC, a	a student	must V	have a gr	ade of "C"
		or bett	ter in d	all core courses for the program of study.				
		EUS	110	Intro to Electric Utility Industry	3	3	0	4
		EUS	130	Electric Utility Print Reading	3	2		4
		EUS	210	Large High Voltage Power Trans I	2	3	0	3
		EUS	215	Large High Voltage Power Trans II	2	3	0	3
		EUS	240	Substation Ancillary Systems	2	3	0	3
	2.	Other	Major	Courses				
		ELC	131	Circuit Analysis I	3	3	0	4
		EUS	225	Electric Utility Safety & Human Perfor.	2	0	0	2
		PHY	122	Applied Physics II	3	2	0	4
C.	Ot	her Re	quire	d Courses				
		ACA	122	College Transfer Success	0	2	0	1
			Tota	l Credit Hours			38	

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

SEMESTER SCHEDULE

ELECTRIC UTILITY TRANSFORMER TEST SPECIALIST (DIPLOMA) (D50510) Work/

			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
ELC	131	Circuit Analysis I	3	3	0	4
EUS	110	Intro to Electric Utility Industry	3	3	0	4
			6	8	0	9
		First Year – Spring Semester	r			
EUS	130	Electric Utility Print Reading	3	2	0	4
EUS	210	Large High Voltage Power Transformers I	2	3	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			8	5	0	10

		First Year – Summer Semester	r			
EUS	215	Large High Voltage Power Transformers II	2	3	0	3
EUS	240	Substation Ancillary Systems	2	3	0	3
			4	6	0	6
		Second Year – Fall Semester				
ENG	111	Writing and Inquiry	3	0	0	3
EUS	225	Electric Util. Safety & Human Performance	2	0	0	2
MAT	171	Precalculus	3	2	0	4
PHY	122	Applied Physics II	3	2	0	4
			11	4	0	13
		Total Credit Hours		38		

Program Completion Guide ELECTRIC UTILITY TRANSFORMER TEST SPECIALIST (Diploma) (D50510)

Student Name:

_____ ID #: _____ Date of Enrollment: ___

Section I: Developmental Courses (if needed) **Prerequisites**/ Corequisites Grade Notes/Semester Courses Scores Cr. DMA 010 Operations with Integers <7 on DAP 1 Pre: None DMA 020 Fractions and Decimals <7 on DAP Pre: DMA 010 1 DMA 030 Propor/Ratio/Rate/Percent <7 on DAP 1 Pre: DMA 010-020 DMA 040 Express/Lin Equat/Inequal <7 on DAP 1 Pre: DMA 010-030 or MAT 060 Pre: DMA 010-040 DMA 050 Graphs/Equations of Lines <7 on DAP 1 or DMA 040 and MAT 060 DMA 060 Polynomial/Quadratic Appl Pre: DMA 010-050 <7 on DAP 1 (Required if taking MAT 171) or MAT 060 and MAT 070 DMA 070 Rational Express/Equation Pre: DMA 010-060 1 (Required if taking MAT 171) or MAT 060 and MAT 070 DMA 080 Radical Express/Equations Pre: DMA 010-070 1 (Required if taking MAT 171) or MAT 060 and MAT 070 Pre: None DRE 096 Integrated Reading and Writing 104-116 3 Co: CIS 070 Pre: DRE 096 DRE 097 Integrated Reading Writing II 117-135 3 Co: CIS 070 Pre: DRE 097 DRE 098 Integrated Reading Writing III 3 136-150 Co: CIS 070

Section II:

A: Electric Utility Transformer Test Specialist Diploma (D50510) Course Requirements 38 credit hours: Complete Sections I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
ELC 131 Circuit Analysis I	4	1 st year – fall	Pre: DMA 010-050 or MAT 070 Co: DRE 096		
EUS 110 Intro to Electric Utility Industry*	4	1 st year – fall	Pre: DRE 098 or ENG 090 and RED 090, DMA 010-080 or MAT 080		
EUS 130 Electric Utility Print Reading*	4	1 st year – spring	Pre: ELC 131 and EUS 110		
EUS 210 Large High Voltage Power Transfmr I*	3	1 st year – spring	Pre: EUS 110		
EUS 215 Large High Voltage Power Transfmr II*	3	1 st year – summer	Pre: EUS 210		
EUS 240 Substation Ancillary Systems*	3	1 st year – summer	Pre: EUS 130		
ENG 111 Writing and Inquiry	3	2 nd year – fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
EUS 225 Elec. Util. Safety & Human Performance	2	2 nd year – fall	Pre: EUS 110 and EUS 130 Co: None		
MAT 171 Precalculus Algebra	4	2 nd year – fall	Pre: DMA 010-080 or MAT 080		
PHY 122 Applied Physics II	4	2 nd year – fall	Pre: None Co: MAT 171		

Electives: (Must take one Humanities/Fine Arts elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses							
only), HUM, MUS, PHI, AND REL.							
Courses offered at RCC:							
ART 111, DRA 111, ENG	131, ENG 231, ENG 232, MUS 110, PHI 240	, REL 211, REL 212					
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	1 st year - spring						

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

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Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

COMMERCIAL & RESIDENTIAL ELECTRICIAN Electrical Systems Technology (Diploma) (D35130)

The Electrical Systems Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice, assisting in the layout, installation and maintenance of electrical systems.

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.

			Work/			
			Class	Lab	Clinical	Credit
A. General Ed	duca	tion Courses				
1. Require	ed Co	Durses				
ENG	111	Writing and Inquiry	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
B. Major Cou	irses	5				
1. Core Co	ourse	es				
To recei	ive a	degree, diploma or certificate from RCC, a	a student	must k	ave a gra	ade of "C"
or bette	r in	all core courses for the program of study.			U	Ū.
ELC	112	DC/AC Electricity	3	6	0	5
ELC	113	Residential Wiring	2	6	0	4
ELC	117	Motors and Controls	2	6	0	4
ELC	128	Introduction to PLC	2	3	0	3
2. Other M	/lajoi	Courses				
ELC	114	Commercial Wiring	2	6	0	4
		National Electric Code	1	2	0	2
ELC	119	NEC Calculations	1	2	0	2
ELC	125	Diagrams and Schematics	1	2	0	2
ELC	134	0	1	2	0	2
		Industrial Electronics	3	3	0	4
C. Other Req	uire	d Courses				
-		College Transfer Success	0	2	0	1
Tota	al C	redit Hours			39	

*Approved Electives are listed on the page before the Course Descriptions.

		SEMESTER SCHEDULE				
		ELECTRICAL SYSTEMS TECHNOLOG	Y (EVE	ENIN		
					Work/	
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA		College Transfer Success	0	2	0	1
ELC	112	DC/AC Electricity	3	6	0	5
ELC	118	National Electric Code	1	2	0	2
ELC	119	NEC Calculations	1	2	0	2
			5	12	0	10
		First Year – Spring Semester				
ELC	113	Residential Wiring	2	6	0	4
ELC	125	Diagrams and Schematics	1	2	0	
ELC	134	Transformer Applications	1	2	0	2 2
			4	10	0	8
		First Year – Summer Semeste		10	0	0
ENG	111	Writing and Inquiry	3	0	0	3
LING	111	Social/Behavioral Sciences Elective*	3	0	0	3
		Social/Denavioral Sciences Elective			<u> </u>	
			6	0	0	6
		Second Year – Fall Semester				
ELC	114	Commercial Wiring	2	6	0	4
ELN	229	Industrial Electronics	3	3	0	4
			5	9	0	8
		Second Year – Spring Semeste	-	,	Ũ	0
ELC	117	Motors and Controls	2	6	0	4
ELC	128	Introduction to PLC	2	3	0	3
			4	9	0	7

SEMESTER SCHEDULF

Total Credit Hours

39

*Approved Electives are listed on the page before the course descriptions.

SEMESTER SCHEDULE ELECTRICAL SYSTEMS TECHNOLOGY (CERTIFICATE) (C35130) **XX**7 -1-/

					Work/	
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ELC	112	DC/AC Electricity	3	6	0	5

ELC	118	National Electric Code	1	2	0	2			
			4	8	0	7			
		First Year – Spring Semester							
ELC	113	Residential Wiring	2	6	0	4			
ELC	114	Commercial Wiring	2	6	0	4			
or		C C							
ELC	117	Motors and Controls	2	6	0	4			
ELC	125	Diagrams and Schematics	1	2	0	2			
		-							
			5	14	0	10			
Total Credit Hours 17									

Program Completion Guide ELECTRICAL SYSTEMS TECHNOLOGY (DIPLOMA) (D35130) **Commercial & Residential Electrician**

Student Name:

_____ Date of Enrollment: _____

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Electrical Systems Technology Certificate (C35130) Course Requirements 17 credit hours: Complete Section I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ELC 112 DC/AC Electricity*	5	1 st year - fall	Pre: DMA 010		
ELC 118 National Electrical Code	2	1 st year - fall	Pre: None Co: DRE 096		
ELC 113 Residential Wiring *	4	1 st year - spring	Pre: ELC 112		
ELC 114 Commercial Wiring# or ELC 117 Motors and Controls*#		2 nd year – fall	Pre: ELC 113		
		2 nd year - spring	Pre: ELC 112 or ELC 131		
ELC 125 Diagrams and Schematics	2	1 st year - spring	None		

Electrical Systems Technology (D35130) Course Requirements 39 credit hours: Complete Section I (as required) and Section II, Β. A and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
ELC 119 NEC Calculations	2	1 st year – fall	Pre: DMA 010		
ELC 134 Transformer Applications	2	1 st year – spring	Pre: ELC 112		
ENG 111 Writing and Inquiry	3	1 st year – summer	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
ELN 229 Industrial Electronics*	4	2 nd year – fall	Pre: ELC 112 or ELC 131		
ELC 128 Introduction to PLC*	3	2 nd year – spring	Pre: ELC 112 or ELC 131		

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.) Courses offered at RCC: ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	1 st year – summer		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

#One course is required for the certificate; both courses are required for the diploma.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

ELECTRONICS ENGINEERING TECHNICIAN **Electronics Engineering Technology (A40200)**

ENGINEERING AND TECHNOLOGY PATHWAYS

These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subject areas.

Course work includes mathematics, natural sciences, and engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, construction technicians and mangers, industrial and technology managers, or research technicians.

PROGRAM DESCRIPTION

A course of study that prepares the students to use basic engineering principles and technical skills to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems. Includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, and microprocessors or programmable logic controllers. Graduates should qualify for employment as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

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.

						Work/	
				Class	Lab	Clinical	l Credit
A.	General H	Educa	tion Courses				
	1. Requir	red Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
	MAT	171	Precalculus Algebra	3	2	0	4
			Humanities/Fine Arts Elective*	3	0	0	3
			Social/Behavioral Sciences Elective*	3	0	0	3
R	Maior Co	nrses					

B. Major Courses

1. Core Courses

To receive a degree, diploma or certificate from RCC, a student must have a grade of "C" or better in all core courses for the program of study.

	ELC	131	Circuit Analysis I	3	3	0 4
	ELN	131	Analog Electronics I	3	3	0 4
	ELN	132	Analog Electronics II	3	3	0 4
	ELN	133	Digital Electronics	3	3	0 4
	ELN	232	Introduction to Microprocessors	3	3	0 4
	ELN	260	Prog Logic Controllers	3	3	0 4
2.	Other 1	Majoi	Courses			
	ATR	112	Intro to Automation	2	3	0 3
	CIS	110	Introduction to Computers	2	2	0 3
	DFT	151	CAD I	2	3	0 3
	EGR	285	Design Project	0	4	0 2
	ELC	213	Instrumentation	3	2	0 4
	ELN	231	Industrial Control	2	3	0 3
	HYD	110	Hydraulics/Pneumatics I	2	3	0 3
	MAT	172	Precalculus Trigonometry	3	2	0 4
	NET	125	Introduction to Networks	1	4	0 3
C. Ot	her Ree	quire	d Courses			
	ACA	122	College Transfer Success	0	2	0 1
			Total Credit Hours			69

*Approved Electives are listed on the page before the Course Descriptions.

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SEMESTER SCHEDULE ELECTRONICS ENGINEERING TECHNOLOGY (DAY) Work/

					VV ОГК/	
			Class	Lab	Clinical	l Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
CIS	110	Introduction to Computers	2	2	0	3
ELC	131	Circuit Analysis I	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
			11	9	0	15
		First Year – Spring Semester	r			
COM	231	Public Speaking	3	0	0	3
or						
ENG	112	Writing/Research in the Disciplines	3	0	0	3
ELN	131	Analog Electronics I	3	3	0	4
ELN	133	Digital Electronics	3	3	0	4
ELN	231	Industrial Control	2	3	0	3
MAT	172	Precalculus Trigonometry	3	2	0	4
			14	11	0	18

First Year – Summer Term

		Humanities/Fine Arts Elective* Social/Behavioral Sciences Elective*	3 3	0 0	0 0	3 3
			—		—	—
			6	0	0	6
		Second Year – Fall Semester	•			
DFT	151	Computer Aided Drafting I	2	3	0	3
ELN	132	Analog Electronics II	3	3	0	4
ELN	232	Introduction to Microprocessors	3	3	0	4
ELN	260	Programmable Logic Controllers	3	3	0	4
		c c				
			11	12	0	15
		Second Year – Spring Semest		12	0	15
ATR	112	Second Year – Spring Semest Intro to Automation		12 3	0 0	15 3
ATR EGR	112 285		er		-	
		Intro to Automation	er 2	3	0	3
EGR	285	Intro to Automation Design Project	er 2 0	3 4	0 0	3 2
EGR ELC	285 213	Intro to Automation Design Project Instrumentation	er 2 0 3	3 4 2	0 0 0	3 2 4
EGR ELC HYD	285 213 110	Intro to Automation Design Project Instrumentation Hydraulics/Pneumatics I	er 2 0 3	3 4 2 3	0 0 0 0	3 2 4 3
EGR ELC HYD	285 213 110	Intro to Automation Design Project Instrumentation Hydraulics/Pneumatics I	er 2 0 3	3 4 2 3	0 0 0 0	3 2 4 3

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Total Credit Hours *Approved Electives are listed on the page before the Course Descriptions.

EET: ELECTRONICS TECHNOLOGY (CERTIFICATE) (C40200) COURSE REQUIREMENTS

			Work/			
			Class	Lab	Credit	
ACA	122	College Transfer Success	0	2	0	1
ELC	131	Circuit Analysis I	3	3	0	4
ELN	131	Analog Electronics I	3	3	0	4
ELN	133	Digital Electronics	3	3	0	4
ELN	231	Industrial Control	2	3	0	3
	Т	otal Credit Hours			16	

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - ELECTRONICS ENGINEERING TECHNOLOGY (A40200) **Electronics Engineering Technician**

Student Name: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Electronics Engineering Technology Certificate (C40200) Course Requirement 16 Credit hours: Complete Section I (as required) and Section II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
ELC 131 Circuit Analysis I*	4	1 st year - fall	Pre: DMA 010-050 or MAT 070 Co: DRE 096		
ELN 131 Analog Electronics*	4	1 st year - spring	Pre: ELC 131		
ELN 133 Digital Electronics*	4	1 st year - spring	Pre: ELC 112 or ELC 131		
ELN 231 Industrial Control	3	1 st year – spring	Pre: ELC 131		

B. Electronics Engineering Technology Associate in Applied Science Degree (A40200) Course Requirements 69 credit hours: Complete Sections I (as required) Section II, A and B.

				Semester	Semester
		Recommended	Prerequisites/	Registered/	Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
CIS 110 Introduction to Computers	3	1 st year - fall	Pre: DRE 097 Co: DRE 098		
ENG 111 Writing and Inquiry	3	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
MAT 171 Precalculus Algebra	4	1 st year – fall	Pre: DMA 010-080 or MAT 80		
COM 231 Public Speaking or	3	1 st year - spring	Pre: DRE 098 or ENG 090 and RED 090		
ENG 112 Writing/Research in the Disciplines	3		Pre: ENG 111		
MAT 172 Precalculus Trigonometry	4	1 st year - spring	Pre: MAT 171		
DFT 151 CAD I	3	2 nd year - fall	Pre: DMA 010–030 or MAT 060, DRE 097 or RED 080		
ELN 132 Analog Electronics II*	4	2 nd year - fall	Pre: ELN 131		
ELN 232 Introduction to Microprocessors*	4	2 nd year - fall	Pre: ELN 133		
ELN 260 Prog Logic Controllers*	4	2 nd year - fall	Pre: ELC 112 or ELC 131		

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ATR 112 Intro to Automation	3	2 nd year - spring	Pre: ELN 260	
EGR 285 Design Project	2	2 nd year - spring	Pre: ELN 133, ELN 131, ELN 260	
ELC 213 Instrumentation	4	2 nd year - spring	Pre: ELC 112 or ELC 131	
HYD 110 Hydraulics/Pneumatics I	3	2 nd year - spring	Pre: DMA 010–030 or MAT 060	
NET 125 Introduction to Networks	3	2 nd year – spring	Pre: DMA 010-050 or MAT 070, DRE 097 Co: DRE 098	

Electives: (Must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses										
only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).										
Courses offered at RCC:										
ART 111, DRA 111, ENG	131, ENG 231, ENG 232, MUS 110, PHI 240,	, REL 211, REL 212, SPA 211								
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade							
	1st year – summer									

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)									
	Courses offered at RCC: ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213								
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade						
	1 st year – summer								

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

MEDICAL CODING & BILLING SPECIALIST Health Information Technology (A45360)

The Health Information Technology curriculum provides individuals with the knowledge and skills to process, analyze, abstract, compile, maintain, manage, and report health information.

Students will supervise departmental functions; classify, code, and index diagnoses and procedures; coordinate information for cost control, quality management, statistics, marketing, and planning; monitor governmental and non-governmental standards; facilitate research; and design system controls to monitor patient information security.

Graduates of this program may be eligible to write the national certification examination to become a Registered Health Information Technician (RHIT). Employment opportunities include hospitals, rehabilitation facilities, nursing homes, health insurance organizations, outpatient clinics, physicians' offices, hospice, and mental health facilities.

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.

			Work/			
			Class	Lab	Clinical	Credit
eneral	Educa	ation Courses				
Requi	red Co	burses				
COM	231	Public Speaking	3	0	0	3
or						
ENG	112	Writing/Research in the Disciplines	3	0	0	3
ENG	111	Writing and Inquiry		0	0	3
MAT	143	Quantitative Literacy			0	3
PSY	150	General Psychology	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
lajor Co	ourses					
Core C	Course	S				
To rec	eive a	degree, diploma or certificate from RCC, a	ı student	must k	nave a gro	ide of "C"
or bett	ter in d	all core courses for the program of study.				
BIO	165	Anatomy and Physiology I	3	3	0	4
BIO	166			3	0	4
BUS	137			0	0	3
HIT	110	Fundamentals of HIM		0	0	3
HIT	112	Health Law and Ethics	3	0	0	3
HIT	114	Health Data Sys/Standards	2	3	0	3
HIT	210	Healthcare Statistics	2	2	0	3
HIT	211	ICD Coding	2	6	0	4
	Requir COM or ENG ENG MAT PSY (ajor Co Core C To rec or beth BIO BIO BUS HIT HIT HIT	Required Co COM 231 or ENG 112 ENG 111 MAT 143 PSY 150 Core Courses Core Courses To receive a or better in a BIO 165 BIO 166 BUS 137 HIT 110 HIT 112 HIT 114 HIT 210	 ENG 112 Writing/Research in the Disciplines ENG 111 Writing and Inquiry MAT 143 Quantitative Literacy PSY 150 General Psychology Humanities/Fine Arts Elective* Tajor Courses Core Courses To receive a degree, diploma or certificate from RCC, a or better in all core courses for the program of study. BIO 165 Anatomy and Physiology I BIO 166 Anatomy and Physiology II BUS 137 Principles of Management HIT 110 Fundamentals of HIM HIT 112 Health Law and Ethics HIT 114 Health Data Sys/Standards HIT 210 Healthcare Statistics	General Education CoursesRequired Courses3COM231Public Speaking3or555ENG112Writing/Research in the Disciplines3ENG111Writing and Inquiry3MAT143Quantitative Literacy2PSY150General Psychology3Humanities/Fine Arts Elective*3Kajor CoursesCore Courses7To receive a degree, diploma or certificate from RCC, a student or better in all core courses for the program of study.BIO165Anatomy and Physiology I3BIO166Anatomy and Physiology II3BUS137Principles of Management3HIT110Fundamentals of HIM3HIT112Health Law and Ethics3HIT114Health Data Sys/Standards2HIT210Healthcare Statistics2	General Education CoursesRequired Courses30COM231Public Speaking30or50030ENG112Writing/Research in the Disciplines30ENG111Writing and Inquiry30MAT143Quantitative Literacy22PSY150General Psychology30Humanities/Fine Arts Elective*30To receive a degree, diploma or certificate from RCC, a student must hor better in all core courses for the program of study.BIO165Anatomy and Physiology I33BIO166Anatomy and Physiology II33BUS137Principles of Management30HIT110Fundamentals of HIM30HIT112Health Law and Ethics30HIT114Health Data Sys/Standards23HIT210Healthcare Statistics22	Class Lab ClinicalRequired CoursesCOM231Public Speaking300orENG112Writing/Research in the Disciplines300ENG111Writing and Inquiry300MAT143Quantitative Literacy220PSY150General Psychology300Humanities/Fine Arts Elective*300To receive a degree, diploma or certificate from RCC, a student must have a gree or better in all core courses for the program of study.BIO165Anatomy and Physiology I330BIO166Anatomy and Physiology II330BUS137Principles of Management300HIT110Fundamentals of HIM300HIT112Health Law and Ethics300HIT114Health Data Sys/Standards230

	HIT	214	CPT/Other Coding Systems	1	3	0	2
	HIT		Quality Management	1	3	0	3
	HIT	222	Prof. Practice Exp III	0	0	6	2
	HIT	226	Principles of Disease	3	0	0	3
	HIT	280	Professional Issues	2	0	0	2
	MED	121	Medical Terminology I	3	0	0	3
	MED	122	Medical Terminology II	3	0	0	3
2.	Other]	Majoi	Courses				
	CIS	110	Introduction to Computers	2	2	0	3
	DBA	110	Database Concepts	2	3	0	3
	HIT	215	Reimbursement Methodology	1	2	0	2
	HIT	220	Health Informatics & EHRs	1	2	0	2
C. Ot	her Ree	quire	d Courses				
	ACA	122	College Transfer Success	0	2	0	1
Total Credit Hours						70	

Total Credit Hours *Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE HEALTH INFORMATION TECHNOLOGY

			Work/				
			Class	Class Lab C		Credit	
		First Year – Fall Semester					
ACA	122	College Transfer Success	0	2	0	1	
BIO	165	Anatomy and Physiology I	3	3	0	4	
CIS	110	Introduction to Computers	2	2	0	3	
ENG	111	Writing and Inquiry	3	0	0	3	
HIT	110	Fundamentals of HIM	3	0	0	3	
HIT	112	Health Law and Ethics	3	0	0	3	
MED	121	Medical Terminology I	3	0	0	3	
				—	—		
			17	7	0	20	
		First Year – Spring Semester	r				
BIO	166	Anatomy and Physiology II	3	3	0	4	
COM	231	Public Speaking	3	0	0	3	
or							
ENG	112	Writing/Research in the Disciplines	3	0	0	3	
DBA	110	Database Concepts	2	3	0	3	
HIT	114	Health Data Sys/Standards	2	3	0	3	
MAT	143	Quantitative Literacy	2	2	0	3	
MED	122	Medical Terminology II	3	0	0	3	
					—		
			15	11	0	19	

		First Year – Summer Semeste	r			
HIT	226	Principles of Disease	3	0	0	3
			3	0	0	3
		Second Year – Fall Semester	5	Ū	Ū	5
HIT	210	Healthcare Statistics	2	2	0	3
HIT	211	ICD Coding	2	6	0	4
HIT	216	Quality Management	1	3	0	2
HIT	220	Health Informatics & EHRs	1	2	0	2
PSY	150	General Psychology	3	0	0	3
						—
			9	13	0	14
		Second Year – Spring Semeste	r			
BUS	137	Principles of Management	3	0	0	3
HIT	214	CPT/Other Coding Systems	1	3	0	2
TIT			-	-	-	
HIT	215	Reimbursement Methodology	1	2	0	2
HIT	215 222	•••	1 0			2 2
		Reimbursement Methodology	1	2	0	
HIT	222	Reimbursement Methodology Prof. Practice Exp III	1 0	2 0	0 6	2
HIT	222	Reimbursement Methodology Prof. Practice Exp III Professional Issues	1 0 2	2 0 0	0 6 0	2 2

70

*Approved Electives are listed on the page before the Course Descriptions.

HEALTH INFORMATION TECHNOLOGY (CERTIFICATE) (C45360) COURSE REQUIREMENTS

				Work/		
			Class	Lab	Clinical	Credit
HIT	110	Fundamentals of HIM	3	0	0	3
HIT	112	Health Law and Ethics	3	0	0	3
HIT	114	Health Data Sys/Standards	2	3	0	3
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
	T	otal Credit Hours			15	

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - HEALTH INFORMATION TECHNOLOGY (A45360) Medical Coding & Billing Specialist

Student Name: _____ Date of Enrollment: _____

Criminal background checks and/or drug testing may be required by clinical agencies prior to a student's participation in the clinical component of a course. Failure to meet clinical agency requirements will result in the student not having the opportunity to meet clinical objectives; therefore, the student will not be allowed to progress in the program.

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Health Information Technology Certificate (C45360) Course Requirements 15 credit hours: Complete Section I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
HIT 110 Fundamentals of HIM*	3	1 st year – fall	Pre: DMA 010-040, DRE 098, Enrollment in HIT Program Co: HIT 112		
HIT 112 Health Law and Ethics*	3	1 st year – fall	Pre: DMA 010-040, DRE 098, Enrollment in HIT Program Co: HIT 110		
HIT 114 Health Data Sys/Standards*	3	1 st year – spring	Pre: MED 121, Enrollment in HIT Program		
MED 121 Medical Terminology*	3	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090		
MED 122 Medical Terminology*	3	1 st year - spring	Pre: MED 121		

B. Health Information Technology Associate in Applied Science Degree (A45360) Course Requirements 70 credit hours: Complete Section I (as required) and Section II, A and B.

6		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
			Pre: DRE 098 or ENG 090 and		
BIO 165 Anatomy & Physiology*	4	1 st year – fall	RED 090, DMA 010-050 or MAT		
			070		
CIS 110 Intro to Computers	3	1 st year – fall	Pre: DRE 097		
	5	1 year – Tali	Co: DRE 098		
			Pre: DRE 098 or ENG 090 and		
ENG 111 Writing and Inquiry	3	1 st year – fall	RED 090		
			Co: ACA 122		
MAT 143 Quantitative Literacy	3	1 st year - spring	Pre: DMA 010-050, DRE 098		
WAT 145 Quantitative Literacy	5	T. Agai - shiing	Co: ACA 122		
BIO 166 Basic Anatomy & Physiology*	4	1 st year – spring	Pre: BIO 165		

DBA 110 Database Concepts	3	1 st year – spring	Pre: CIS 110, CIS 111, CTI 110, or OST 136	
ENG 112 Writing/Research in the Disciplines	3	1 st year – spring	Pre: ENG 111	
or COM 231 Public Speaking	3	1 st year – spring	Pre: DRE 098 or ENG 090 and RED 090	
HIT 226 Principles of Disease*	3	1 st year – summer	Pre: BIO 166	
HIT 210 Healthcare Statistics*	3	2 nd year – fall	Pre: HIT 114, MAT 143	
HIT 211 ICD Coding*	4	2 nd year - fall	Pre: BIO 166, HIT 114, MED 122	
HIT 216 Quality Management*	2	2 nd year - fall	Pre: HIT 114	
HIT 220 Health Informatics & EHR	2	2 nd year - fall	Pre: CIS 110 or CIS 111, HIT 114	
PSY 150 General Psychology	3	2 nd year - fall	Pre: DRE 098 or ENG 090 and RED 090	
BUS 137 Principles of Management*	3	2 nd year – spring	Pre: DRE 098 or ENG 090 and RED 090	
HIT 214 CPT/Other Coding Systems*	2	2 nd year – spring	Pre: HIT 211	
HIT 215 Reimbursement Methodology	2	2 nd year -spring	Pre: HIT 211 Co: HIT 214	
HIT 222 Prof. Practice Exp. III*	2	2 nd year - spring	Pre: HIT 211	
HIT 280 Professional Issues*	2	2 nd year - spring	Pre: HIT 211	

Electives: (Must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).

Courses offered at RCC:

ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	2 nd year - spring		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

Healthcare Business Informatics (A25510)

The Healthcare Business Informatics curriculum prepares individuals for employment as specialists in installation, data management, data archiving/retrieval, system design and support, and computer training for medical information systems.

Students learn about the field through multidisciplinary coursework including the study of terminology relating to informatics, systems analysis, networking technology, computer/network security, data warehousing, archiving and retrieval of information, and healthcare computer infrastructure support.

Graduates should qualify for employment as database/data warehouse analysts, technical support professionals, informatics technology professionals, systems analysts, networking and security technicians, and computer maintenance professionals in the healthcare field.

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.

		T I	Work/	0
	Class	Lab	Clinical	Credit
A. General Education Courses				
1. Required Courses				
ENG 111 Writing and Inquiry	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. Major Courses				
1. Core Courses				
To receive a degree, diploma or certificate from RCC	C, a student	must l	have a gr	ade of "C"
or better in all core courses for the program of study			U	U
BUS 110 Introduction to Business	3	0	0	3
CIS 110 Introduction to Computers	2	2	0	3
CTS 120 Hardware/Software Support	2	3	0	3
DBA 110 Database Concepts	2	3	0	3
HBI 110 Issues and Trends in HBI	3	0	0	3
HBI 113 Survey of Med Insurance	3	0	0	3
HBI 250 Data Mgmt and Utilization	2	2	0	3
MED 118 Medical Law and Ethics	2	0	0	2
MED 121 Medical Terminology I	3	Ő	0	3
MED 122 Medical Terminology II	3	0	0	3
NET 125 Introduction to Networks	1	4	0	3
	1	4	U	5

NOS	110	Operating System Concepts	2	3	0	3
		Security Concepts	2	2	0	3
2. Other	r Majoi	r Courses				
CIS	115	Intro to Prog & Logic	2	3	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
C. Other R	equire	d Courses				
ACA	122	College Transfer Success	0	2	0	1
Tota	l Cred	it Hours			66	

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE HEALTHCARE BUSINESS INFORMATICS

Work/								
			Class					
		First Year – Fall Semester	Ciubb	240	emiea			
ACA	122	College Transfer Success	0	2	0	1		
BUS	110	Introduction to Business	3	0	0	3		
CIS	110	Introduction to Computers	2	2	0	3		
ENG	111	Writing and Inquiry	3	0	0	3		
MED	118	Medical Law and Ethics	2	0	0	2		
NET	125	Introduction to Networks	1	4	0	3		
NOS	110	Operating Systems Concepts	2	3	0	3		
			13	11	0	18		
		First Year – Spring Semester	r					
DBA	110	Database Concepts	2	3	0	3		
ENG	112	Writing/Research in the Disciplines	3	0	0	3		
HBI	110	Issues and Trends in HBI	3	0	0	3		
HBI	113	Survey of Med Insurance	3	0	0	3		
MAT	143	Quantitative Literacy	2	2	0	3		
NOS	130	Windows Single User	2	2	0	3		
			15	7	0	18		
		Second Year – Fall Semester	•					
CIS	115	Introduction to Prog & Logic	2	3	0	3		
HBI	250	Data Mgmt and Utilization	2	2	0	3		
MED	121	Medical Terminology I	3	0	0	3		
NOS	120	Linux/UNIX Single User	2	2	0	3		
NOS	230	Windows Administration I	2	2	0	3		
SEC	110	Security Concepts	2	2	0	3		
			13	11	0	18		

		Second Year – Spring Semest	ter			
CTS	120	Hardware/Software Support	2	3	0	3
MED	122	Medical Terminology II		0	0	3
		Humanities/Fine Arts Elective*		0	0	3
	Social/Behavioral Sciences Elective*			0	0	3
			—		—	—
			11	3	0	12
]		Credit Hours	.		66	

*Approved Electives are listed on the page before the Course Descriptions.

Program Completion Guide **ASSOCIATE IN APPLIED SCIENCE - HEALTHCARE BUSINESS INFORMATICS (A25510)**

Student Name: _____

_____Date of Enrollment: _____

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Healthcare Business Informatics Associate in Applied Science Degree (A25510) Course Requirements 66 credit hours: Complete Section I (as required) and Section II, A.

				Semester	Semester
		Recommended	Prerequisites/	Registered/	Completed/
Courses		Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	1 st year - fall	None		
BUS 110 Introduction to Business*	3	1 st year - fall	Pre: DRE 097 Co: DRE 098		
CIS 110 Introduction to Computers*	3	1 st year - fall	Pre: DRE 097 Co: DRE 098		
ENG 111 Writing and Inquiry	3	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
MED 118 Medical Law and Ethics*	2	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090		
NET 125 Introduction to Networks*	3	1 st year - fall	Pre: DMA 010-050 or MAT 070, DRE 097 Co: DRE 098		
NOS 110 Operating System Concepts*	3	1 st year - fall	None		
DBA 110 Database Concepts*	3	1 st year - spring	Pre: CIS 110, CIS 111, CTI 110, or OST 136		
ENG 112 Writing/Research in the Disciplines	3	1 st year - spring	Pre: ENG 111		
HBI 110 Issues and Trends in HBI*	3	1 st year - spring	None		
HBI 113 Survey of Med Insurance*	3	1 st year - spring	Pre: BUS 110		
MAT 143 Quantitative Literacy	3	1 st year - spring	Pre: DMA 010-050, DRE 098 Co: ACA 122		
NOS 130 Windows Single User	3	1 st year - spring	Pre: NOS 110		
CIS 115 Introduction to Programming and Logic	3	2 nd year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
HBI 250 Data Mgmt and Utilization*	3	2 nd year - fall	Pre: DBA 110		
MED 121 Medical Terminology I*	3	2 nd year - fall	Pre: DRE 098 or ENG 090 and RED 090		
NOS 120 Linux/UNIX Single User	3	2 nd year - fall	Pre: NOS 110 or CET 211		
NOS 230 Windows Administration I	3	2 nd year - fall	Pre: NOS 130		
SEC 110 Security Concepts*	3	2 nd year - fall	Pre: NOS 110 Co: NET 125		
CTS 120 Hardware/Software Support*	3	2 nd year - spring	Pre: CIS 110		
MED 122 Medical Terminology II*	3	2 nd year - spring	Pre: MED 121		

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Electives: (Must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine A	rts Electives (3 credits)** (Courses v	vith the following prefixes will satisfy this requir	ement: ART, DRA, ENG (literature courses
only), HUM, MUS, PHI, F	REL, and SPA (Intermediate Spanish I only)		
Courses offered at RCC:			
ART 111, DRA 111, ENG	131, ENG 231, ENG 232, MUS 110, PHI 240	, REL 211, REL 212, SPA 211	
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	2 nd year spring		

and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)								
Courses offered at RCC	:							
ANT 220, HIS 111, HIS 1	112, HIS 131, HIS 132, PSY 150, PSY 241, SOC	210, SOC 213						
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade					
	2 nd year spring							

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

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Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

HEALTHCARE MANAGER Healthcare Management Technology (A25200)

The Healthcare Management Technology curriculum is designed to prepare students for employment in healthcare business and financial operations. Students will gain a comprehensive understanding of the application of management principles to the healthcare environment.

The curriculum places emphasis on planning, organizing, directing, and controlling tasks related to healthcare organizational objectives including the legal and ethical environment. Emphasis is placed on the development of effective communication, managerial, and supervisory skills.

Graduates may find employment in healthcare settings including hospitals, medical offices, clinics, long-term care facilities, and insurance companies. Graduates are eligible to sit for various certification exams upon completion of the degree with a combination of a minimum of two years administrative experience. Eligible certifications include, but are not limited to, the Professional Association of Healthcare Office Managers (PAHCOM), the Healthcare Financial Management Association (HFMA), the Certified Patient Account Manager (CPAM) and the Certified Manager of Patient Accounts (CMPA) examinations.

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.

				Work/	
		Class	Lab	Clinical	Credit
A. General Educ	ation Courses				
1. Required C	ourses				
ENG 111	Writing and Inquiry	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. Major Course	S				
1. Core Cours	es				
To receive	a degree, diploma or certificate from RCC, a	a student	must k	iave a gr	ade of "C"
or better in	all core courses for the program of study.				
ACC 120	Principles of Financial Accounting	3	2	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	4
CIS 110	Introduction to Computers	2	2	0	3
or					
CIS 111	Basic PC Literacy	1	2	0	2
HMT 110	Intro to Healthcare Management	3	0	0	3
HMT 210	Medical Insurance	3	0	0	3

	HMT	211	Long-Term Care Administration	3	0	0	3
			Healthcare Financial Management	4	0	0	4
			Medical Law and Ethics	2	0	0	2
	MED	121	Medical Terminology I	3	0	0	3
	MED	122	Medical Terminology II	3	0	0	3
2.	Other 1	Major	Courses				
	ACC	225	Cost Accounting	3	0	0	3
	BUS	137	Principles of Management	3	0	0	3
	BUS	153	Human Resource Management	3	0	0	3
	CTS	130	Spreadsheet	2	2	0	3
	HMT	225	Practice Mgmt Simulation	2	2	0	3
	OST	131	Keyboarding	1	2	0	2
	WBL	111	Work-Based Learning I	0	0	10	1
	WBL	115	Work-Based Learning Seminar I	1	0	0	1
C. Otl	her Ree	quire	d Courses				
	ACA	122	College Transfer Success	0	2	0	1
			Total Credit Hours			66-6	67

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE HEALTHCARE MANAGEMENT TECHNOLOGY (DAY)

					Work/	
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	137	Principles of Management	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MED	121	Medical Terminology I	3	0	0	3
				—		
			14	6	0	17
		First Year – Spring Semester	r			
ACC	121	Principles of Managerial Accounting	3	2	0	4
CIS	110	Introduction to Computers	2	2	0	3
or						
CIS	111	Basic PC Literacy	1	2	0	2
ENG	112	Writing/Research in the Disciplines	3	0	0	3
HMT	110	Intro to Healthcare Management	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
OST	131	Keyboarding	1	2	0	2
			14-15	6	0	17-18

Second Year – Fall Semester

BUS 15	3 Human Resource Management	3	0	0	3
HMT 21	0 Medical Insurance	3	0	0	3
HMT 21	1 Long-Term Care Administration	3	0	0	3
MED 11	8 Medical Law and Ethics	2	0	0	2
	Humanities/Fine Arts Elective*	3	0	0	3
	Social/Behavioral Sciences Elective*	3	0	0	3
		17	0	0	17
	Second Year – Spring Semes	ter			
ACC 22	5 Cost Accounting	3	0	0	3
CTS 13	0 Spreadsheet	2	2	0	3
HMT 22	0 Healthcare Financial Management	4	0	0	4
HMT 22	5 Practice Mgmt Simulation	2	2	0	3
WBL 11	1 Work-Based Learning I	0	0	10	1
WBL 11	5 Work-Based Learning Seminar I	1	0	0	1
					—
		12	4	10	15

66-67

*Approved Electives are listed on the page before the Course Descriptions.

HEALTHCARE MANAGEMENT TECHNOLOGY (CERTIFICATE) (C25200) COURSE REQUIREMENTS

			Work/			
			Class	Lab	Clinica	l Credit
CIS	110	Introduction to Computers	2	2	0	3
or						
CIS	111	Basic PC Literacy	1	2	0	2
HMT	110	Introduction to Healthcare Management	3	0	0	3
HMT	210	Medical Insurance	3	0	0	3
MED	118	Medical Law and Ethics	2	0	0	2
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
			15-16	2	0	16-17

Total Credit Hours

16-17

Program Completion Guide

ASSOCIATE IN APPLIED SCIENCE - HEALTHCARE MANAGEMENT TECHNOLOGY (A25200) **Healthcare Manager**

Student Name: ______ ID #: _____ Date of Enrollment: _____

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Co-requisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Healthcare Management Certificate (C25200) Course Requirements 16-17 credit hours: Complete Section I (as required) and Section II, A.

				Semester	Semester
		Recommended	Prerequisites/	Registered/	Completed/
Courses	Cr.	Semester	Co-requisites	Planned	Grade
MED 118 Medical Law & Ethics*	2	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090		
MED 121 Medical Terminology I*	3	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090		
CIS 110 Introduction to Computers*	3	1 st year - spring	Pre: DRE 097 Co: DRE 098		
CIS 111 Basic PC Literacy* HMT 110 Intro to Healthcare Management*	2	1 st year - spring	None		
MED 122 Medical Terminology II*	3	1 st year - spring	Pre: MED 121		
HMT 210 Medical Insurance*	3	2 nd year - fall	Pre: MED 121		

B. Healthcare Management Technology Associate in Applied Science Degree (A25200) Course Requirements 67 credit hours: Complete Sections I (as required) and Section II, A and B. .

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Co-requisites	Planned	Grade
ACA 122 College Transfer Success	1	1 st year - fall	None		
ACC 120 Principles of Financial Accounting*	4	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 098 or RED 090		
BUS 137 Principles of Management	3	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090		
ENG 111 Writing and Inquiry	3	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
MAT 143 Quantitative Literacy	3	1 st year - fall	Pre: DMA 010-050, DRE 098 Co: ACA 122		
ACC 121 Principles of Management Accounting*	4	1 st year - spring	Pre: ACC 120 (min. grade of C)		
OST 131 Keyboarding	2	1 st year - spring	Pre: 25 NWPM on keyboarding placement test		
ENG 112 Writing/Research in the Disciplines	3	1 st year - spring	Pre: ENG 111		
BUS 153 Human Resource Management	3	2 nd year - fall	Pre: DRE 098		
HMT 211 Long-Term Care Administration*	3	2 nd year - fall	Pre: ACC 120, HMT 110		

ACC 225 Cost Accounting	3	2 nd year - spring	Pre: ACC 121
WBL 111 Work-Based Learning I	1	2 nd year - spring	Pre: 9 SHC in major core courses Co: WBL 115
WBL 115 Work-Based Learning Seminar I	1	2 nd year - spring	Pre: 9 SHC in major core courses Co: WBL 111 or WBL 112
CTS 130 Spreadsheet	3	2 nd year - spring	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098
HMT 220 Healthcare Financial Management*	4	2 nd year - spring	Pre: ACC 120, HMT 110
HMT 225 Practice Management Simulation	3	2 nd year - spring	Pre: HMT 210 Co: HMT 220

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses										
only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).										
Courses offered at RCC:										
ART 111, DRA 111, ENG	131, ENG 231, ENG 232, MUS 110, PHI 240	, REL 211, REL 212, SPA 211								
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade							
	2 nd year - fall									

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)										
Courses offered at RCC ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213										
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade							
	2 nd year - fall									

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

SOCIAL SERVICES SUPPORT Human Services Technology (A45380)

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

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.

							Work/	
					Class	Lab	Clinical	Credit
A.	Ge	neral F	Educa	tion Courses				
	1.	Requir	red Co	ourses				
		ENG	111	Writing and Inquiry	3	0	0	3
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
		MAT	143	Quantitative Literacy	2	2	0	3
		SOC	210	Introduction to Sociology	3	0	0	3
				Humanities/Fine Arts Elective*	3	0	0	3
В.	Ma	ajor Co	urses					
	1.	Core C	Course	S				
		To rec	eive a	degree, diploma or certificate from RCC, a	student	must k	nave a gra	ide of "C"
		or bett		all core courses for the program of study.				
		HSE	110	Introduction to Human Services	2	2	0	3
		HSE	112	Group Process I	1	2	0	2
		HSE	123	Interviewing Techniques	2	2	0	3
		HSE	125	Counseling	2	2	0	3
		HSE	210	Human Services Issues	2	0	0	2
		HSE	225	Crisis Intervention	3	0	0	3
		PSY	150	General Psychology	3	0	0	3
		PSY	241	Developmental Psychology	3	0	0	3
		SOC	213	Sociology of the Family	3	0	0	3
	2.	Other	Major	Courses				

		CIS	110	Introduction to Computers	2	2	0	3
		HSE	155	Community Resources Management	2	0	0	2
		HSE	220	Case Management	2	2	0	3
		HSE	227	Children & Adolescents in Crisis	3	0	0	3
		SWK	113	Working with Diversity	3	0	0	3
		WBL	111	Work-Based Learning I	0	0	10	1
		WBL	115	Work-Based Learning Seminar I	1	0	0	1
	3.	Electiv	ve Co	urses (Select three of the following)**				
		GRO	120	Gerontology	3	0	0	3
		HSE	127	Conflict Resolution	2	2	0	3
		HSE	242	Family Systems	3	0	0	3
		HSE	250	Financial Services	2	0	0	2
		HSE	251	Activities Planning	3	0	0	3
		HSE	255	Health Problems and Prevention	3	0	0	3
		SAB	110	Substance Abuse Overview	3	0	0	3
		SAB	135	Addictive Processes	3	0	0	3
		SOC	225	Social Diversity	3	0	0	3
		SWK	110	Introduction to Social Work	3	0	0	3
C.	Ot	her Ree	quire	d Courses				
		ACA	122	College Transfer Success	0	2	0	1

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*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE HUMAN SERVICES TECHNOLOGY (DAY)

				• /		
					Work/	
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
ENG	111	Writing and Inquiry	3	0	0	3
HSE	110	Introduction to Human Services	2	2	0	3
HSE	123	Interviewing Techniques	2	2	0	3
HSE	155	Community Resources Management	2	0	0	2
PSY	150	General Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
					—	—
			15	6	0	18
		First Year – Spring Semester				
CIS	110	Introduction to Computers	2	2	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
HSE	112	Group Process I	1	2	0	2
HSE	125	Counseling	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Elective Course I**	2-3	0-2	0	2-3

		12-13	8-10	0	16-17
	Second Year – Fall Semeste	r			
227	Children & Adolescents in Crisis	3	0	0	3
241	Developmental Psychology	3	0	0	3
213	Sociology of the Family	3	0	0	3
113	Working with Diversity	3	0	0	3
	Elective Course II**	2-3	0-2	0	2-3
		14-15	0-2	10	14-15
	Second Year – Spring Semest	er			
210	Human Services Issues	2	0	0	2
220	Case Management	2	2	0	3
225	Crisis Intervention	3	0	0	3
111	Work-Based Learning I	0	0	10	1
115	Work-Based Learning Seminar I	1	0	0	1
	Humanities/Fine Arts Elective*	3	0	0	3
	Elective Course III**	2-3	0-2	0	2-3
		13-14	2-4	10	15-16
	241 213 113 210 220 225 111	 227 Children & Adolescents in Crisis 241 Developmental Psychology 213 Sociology of the Family 113 Working with Diversity Elective Course II** 210 Human Services Issues 220 Case Management 225 Crisis Intervention 111 Work-Based Learning I 115 Work-Based Learning Seminar I Humanities/Fine Arts Elective* 	Second Year – Fall Semester227Children & Adolescents in Crisis3241Developmental Psychology3213Sociology of the Family3113Working with Diversity3113Working with Diversity3Elective Course II**2-314-15Second Year – Spring Semester210Human Services Issues2220Case Management2225Crisis Intervention3111Work-Based Learning I0115Work-Based Learning Seminar I1Humanities/Fine Arts Elective*3Elective Course III**2-3	Second Year – Fall Semester227Children & Adolescents in Crisis30241Developmental Psychology30213Sociology of the Family30113Working with Diversity30Elective Course II**2-30-2	Second Year – Fall Semester 227 Children & Adolescents in Crisis 3 0 0 241 Developmental Psychology 3 0 0 213 Sociology of the Family 3 0 0 213 Sociology of the Family 3 0 0 113 Working with Diversity 3 0 0 113 Working with Diversity 3 0-2 0 113 Working with Diversity 3 0-2 0 114-15 0-2 10 10 10 Second Year – Spring Semester 210 Human Services Issues 2 0 0 220 Case Management 2 2 0 225 Crisis Intervention 3 0 0 111 Work-Based Learning Seminar I 1 0 0 115 Work-Based Learning Seminar I 1 0 0 Humanities/Fine Arts Elective* 3 0-2 0 115 Uork-Based Learning Seminar I 1 0

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*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE HUMAN SERVICES TECHNOLOGY (EVENING)

HUMAN SERVICES TECHNOLOGY (EVENING)									
					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			
ENG	111	Writing and Inquiry	3	0	0	3			
HSE	110	Introduction to Human Services	2	2	0	3			
					—				
			7	6	0	10			
		First Year – Spring Semester	•						
ENG	112	Writing/Research in the Disciplines	3	0	0	3			
HSE	123	Interviewing Techniques	2	2	0	3			
PSY	150	General Psychology	3	0	0	3			
SOC	210	Introduction to Sociology	3	0	0	3			
			11	2	0	12			
		Even Years – Fall Semester							
HSE	227	Children & Adolescents in Crisis	3	0	0	3			
SWK	113	Working with Diversity	3	0	0	3			

		Elective Course I**	2-3	0-2	0	2-3
		Elective Course II**	2-3	0-2	0	2-3
			10.12			<u> </u>
			10-12	0-4	0	11-12
HOL	210	Odd Years – Spring Semeste		0	0	2
HSE	210	Human Services Issues	2	0	0	2
HSE	220	Case Management	2	2	0	3 3 3
MAT	143	Quantitative Literacy	2	2	0	3
SOC	213	Sociology of the Family	3	0	0	
WBL	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Learning Seminar I	1	0	0	1
					—	—
			11	2	10	13
		Odd Years – Fall Semester				
HSE	112	Group Process I	1	2	0	2
HSE	125	Counseling	2	2	0	3
HSE	225	Crisis Intervention	3	0	0	3 3 3
		Humanities/Fine Arts Elective*	3	0	0	3
			_			
			9	4	0	11
		Even Years – Spring Semeste	er			
HSE	155	Community Resources Management	2	0	0	2
PSY	241	Developmental Psychology	3	0	0	3
		Elective Course III**	2-3	0-2	0	2-3
			7-8	0-2	0	7-8

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*Approved Electives are listed on the page before the Course Descriptions.

HST: SOCIAL GERONTOLOGY (CERTIFICATE) (C45380G) COURSE REQUIREMENTS

				Work/		
			Class	Lab	Clinical	Credit
GRO	120	Gerontology	3	0	0	3
HSE	110	Introduction to Human Services	2	2	0	3
HSE	123	Interviewing Techniques	2	2	0	3
HSE	225	Crisis Intervention	3	0	0	3
HSE	251	Activities Planning	3	0	0	3
PSY	150	General Psychology	3	0	0	3
or						
SOC	213	Sociology of the Family	3	0	0	3
			16	4	0	18

				Work/		
			Class	Lab	Clinical	Credit
HSE	110	Introduction to Human Services	2	2	0	3
HSE	123	Interviewing Techniques	2	2	0	3
HSE	225	Crisis Intervention	3	0	0	3
HSE	227	Children & Adolescents in Crisis	3	0	0	3
PSY	150	General Psychology	3	0	0	3
or						
SOC	213	Sociology of the Family	3	0	0	3
SAB	110	Substance Abuse Overview	3	0	0	3
						—
			16	4	0	18

HST: AT-RISK YOUTH TECHNICIAN (CERTIFICATE) (C45380Y) COURSE REQUIREMENTS

Total Credit Hours

18
Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - HUMAN SERVICES TECHNOLOGY (A45380) **Social Services Support**

Student Name: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Social Gerontology Certificate (C45380G) Course Requirements 18 credit hours:

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
GRO 120 Gerontology	3		None		
HSE 110 Introduction to Human Services *	3		Pre: DRE 097 Co: DRE 098		
HSE 123 Interviewing Techniques*	3		Pre: DRE 097 Co: DRE 098		
HSE 225 Crisis Interventions*	3		Pre: DRE 098 or ENG 090 and RED 090		
HSE 251 Activities Planning	3		Pre: DRE 098 or ENG 090 and RED 090		
PSY 150 General Psychology* or SOC 213 Sociology of the Family*	3		Pre: DRE 098 or ENG 090 and RED 090		

B. At-Risk Youth Technician Certificate (C45380Y) Course Requirements 18 credit hours:

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
HSE 110 Introduction to Human Services*	3		Pre: DRE 097 Co: DRE 098		
HSE 123 Interviewing Techniques*	3		Pre: DRE 097 Co: DRE 098		
HSE 225 Crisis Intervention*	3		Pre: DRE 098 or ENG 090 and RED 090		
HSE 227 Children & Adolescents in Crisis	3		Pre: DRE 098 or ENG 090 and RED 090		
PSY 150 General Psychology* or SOC 213 Sociology of the Family*	3		Pre: DRE 098 or ENG 090 and RED 090		
SAB 110 Substance Abuse Overview	3		None		

C. Human Services Technology Associate in Applied Science Degree (A45380) Course Requirements 65-66 credit hours: Complete Sections I (as required), and II, C.

		Recommended	Prerequisites/	Semester	Semester
Courses	Cr.	Semester	Corequisites	Registered/	Completed/

182	Ρ	а	g	е
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				Planned	Grade
ACA 122 College Transfer Success	1	(D, E) 1 st year - fall	None		
			Pre: DRE 098 or ENG 090 and		
ENG 111 Writing and Inquiry	3	(D, E) 1 st year - fall	RED 090		
	_		Co: ACA 122		
			Pre: DRE 097		
HSE 110 Introduction to Human Services*	3	(D, E) 1 st year- Fall	Co: DRE 098		
		(D) 1 st year - fall	Pre: DRE 097		
HSE 123 Interviewing Techniques*	3	(E) 1 st year - spring	Co: DRE 098		
		(D) 1 st year - fall	Pre: DRE 097		
ISE 155 Community Resources Management	2	(E) Even year - spring	Co: DRE 098		
		(D) 1 st year - fall	Pre: DRE 098 or ENG 090 and		
PSY 150 General Psychology*	3	(E) 1 st year - spring	RED 090		
		(D) 1 st year - fall	Pre: DRE 098 or ENG 090 and		
OC 210 Introduction to Sociology	3	(E) 1 st year - spring	RED 090		
		(D) 1 st year - spring	Pre: DRE 097		
CIS 110 Introduction to Computers	3	(E) 1 st year - fall	Co: DRE 098		
NG 112 Writing/Research in the Disciplines	3	(D, E) 1 st year - spring	Pre: ENG 111		
	-		Pre: DRE 097, Enrollment in HSE		
ISE 112 Group Process I*	2	(D) 1 st year - spring	program		
	_	(E) Odd year - fall	Co: DRE 098		
		(D) 1 st year - spring			
ISE 125 Counseling*	3	(E) Odd year - fall	Pre: PSY 150		
		(D) 1 st year - spring	Pre: DMA 010-050, DRE 098		
IAT 143 Quantitative Literacy	3	(E) Odd year - spring	Co: ACA 122		
		(D) 2 nd year - fall	Pre: DRE 098 or ENG 090 and		
ISE 227 Children & Adolescents in Crisis	3	(E) Even year - fall	RED 090		
		(D) 2 nd year - fall	5 501/150		
PSY 241 Developmental Psychology*	3	(E) Even Year - spring	Pre: PSY 150		
		(D) 2 nd year - fall	Pre: DRE 098 or ENG 090 and		
OC 213 Sociology of the Family*	3	(E) Odd year - spring	RED 090		
NAUK 112 NALE drive with Divergity	2	(D) 2 nd year - fall	Pre: DRE 098 ENG 090 and RED		
WK 113 Working with Diversity	3	(E) Even year - fall	090		
	2	(D) 2 nd year - spring	Pre: Successful completion of 12		
ISE 210 Human Services Issues*	2	(E) Odd year - spring	SHC in the HSE major courses		
LSE 220 Case Management	3	(D) 2 nd year - spring			
ISE 220 Case Management	3	(E) Odd year - spring	Pre: HSE 110		
USE 225 Cricis Intervention	3	(D) 2 nd year - spring	Pre: DRE 098 or ENG 090 and		
ISE 225 Crisis Intervention	3	(E) odd year - fall	RED 090		
			Pre: 9 or 14 SHC in the major		
NPL 111 Work Pacod Loarning L	1	(D) 2 nd year - spring	core courses depending on		
VBL 111 Work-Based Learning I	1	(E) Odd year - spring	program		
			Co: WBL 115		
			Pre: 9 or 14 SHC in the major		
MDL 115 More Decod Los mine Cominer L	1	(D) 2 nd year - spring	core courses depending on		
VBL 115 Work-Based Learning Seminar I	1	(E) Odd year - spring	program		
			Co: WBL 111		

Must take any thi	ree of the following (9 credit hours)) to complete degree requirements:	
GRO 120, HSE 127, HS	E 242, HSE 250, HSE 251, HSE 255, SAB 110, 5	SAB 135, SOC 225, SWK 110	
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	(D) 1 st year - spring		
	(E) Even year - fall		
	(D) 2 nd year - fall		
	(E) Even year - fall		
	(D) 2 nd year - spring		
	(E) Even year - spring		

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts and elective from list below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses								
only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).								
Courses offered at RCC:								
ART 111, DRA 111, ENG 1	ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211							
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade					

		(D) 2 nd year - spring (E) Odd year - fall		
NOTES:	*All courses mu	ist be completed with a grade of "C" or be	tter.	

*All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

HUMAN SERVICES TECHNOLOGY: SOCIAL SERVICES (A4538D)

The Human Services Technology/Social Services concentration prepares students for direct service delivery work in social service agencies. The curriculum enables students to link theory and practice through interactive classroom activities developing a skill-based academic foundation.

Course work includes the history of the social service movement, ethical issues, case management, diversity issues, law in the practice of social work, and community resources. Students also gain skills in interviewing and counseling techniques.

Graduates should qualify for employment with local, county, state, and federal government social service agencies. Employment includes family and child assistance, rehabilitation health services, medical assistance, youth services, aging, and developmentally disabled programs public and private settings.

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.

					Class	Work/ ass Lab ClinicalCredit		
A.	Ge	eneral H	Educa	tion Courses				
	1.	Requir	red Co	Durses				
		ENG	111	Writing and Inquiry	3	0	0	3
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
		MAT	143	Quantitative Literacy	2	2	0	3
		SOC	210	Introduction to Sociology	3	0	0	3
				Humanities/Fine Arts 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 k	nave a gr	ade of "C"
		or bett	ter in d	all core courses for the program of study.			_	-
		HSE	110	Introduction to Human Services	2	2	0	3
		HSE	112	Group Process I	1	2	0	2
		HSE	123	Interviewing Techniques	2	2	0	3
		HSE	125	Counseling	2	2	0	3
		HSE	210	Human Services Issues	2	0	0	2
		HSE	225	Crisis Intervention	3	0	0	3
		PSY	150	General Psychology	3	0	0	3
		PSY	241	Developmental Psychology	3	0	0	3
		SOC	213	Sociology of the Family	3	0	0	3
	2.	Conce	ntratio	on Courses				

	SWK	110	Introduction to Social Work	3	0	0	3
	SWK	113	Working with Diversity	3	0	0	3
	SWK	115	Community Resources	2	2	0	3
	SWK	214	Social Work Law	3	0	0	3
	SWK	220	Social Work Issues in Client Services	3	0	0	3
3.	Other]	Major	Courses				
	ACA	122	College Transfer Success	0	2	0	1
	WBL	111	Work-Based Learning I	0	0	10	1
	WBL	115	Work-Based Learning Seminar I	1	0	0	1
4.	Electiv	ve Cou	urses (Select three of the following)**				
	CIS	110	Introduction to Computers	2	2	0	3
	GRO	120	Gerontology	3	0	0	3
	HSE	127	Conflict Resolution	2	2	0	3
	HSE	155	Community Resources Management	2	0	0	2
	HSE	220	Case Management	2	2	0	3
	HSE	227	Children & Adolescents in Crisis	3	0	0	3
	HSE	242	Family Systems	3	0	0	3
	HSE	250	Financial Services	2	0	0	2
	HSE	251	Activities Planning	2	2	0	3
	HSE	255	Health Problems and Prevention	3	0	0	3
	SAB	110	Substance Abuse Overview	3	0	0	3
	SAB	135	Addictive Processes	3	0	0	3

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*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE HST: SOCIAL SERVICES (DAY)

			Class	Lab	Work/ Clinica	/ lCredit
		First Year – Fall Semester	ſ			
ACA	122	College Transfer Success	0	2	0	1
ENG	111	Writing and Inquiry	3	0	0	3
HSE	110	Introduction to Human Services	2	2	0	3
HSE	123	Interviewing Techniques	2	2	0	3
SOC	210	Introduction to Sociology	3	0	0	3
SWK	110	Introduction to Social Work	3	0	0	3
		Elective Course I**	2-3	0-2	0	2-3
			—			_
			15-16	6-8	0	18-19
		First Year – Spring Semester	r			
ENG	112	Writing/Research in the Disciplines	3	0	0	3
HSE	112	Group Process I	1	2	0	2
HSE	125	Counseling	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3

PSY SWK	150 113	General Psychology Working with Diversity	3 3	0 0	0 0	3 3
			 14	6	0	 17
		Second Year – Fall Semester		0	0	17
PSY	241	Developmental Psychology	3	0	0	3
			3	-		3
SOC	213	Sociology of the Family		0	0	
SWK		Community Resources	2	2	0	3
SWK	214	Social Work Law	3	0	0	3
		Elective Course II**	2-3	0-2	0	2-3
			13-14	2-4	0	14-15
		Second Year – Spring Semest	er			
HSE	210	Human Services Issues	2	0	0	2
HSE	225	Crisis Intervention	3	0	0	3
SWK	220	Social Work Issues in Client Services	3	0	0	3
WBL	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Learning Seminar I	1	0	0	1
		Humanities/Fine Arts Elective*	3	0	0	3
		Elective Course III**	2-3	0-2	0	2-3
			14-15	0-2	10	15-16

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Total Credit Hours *Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE HST: SOCIAL SERVICES (EVENING)

		× ×	Class	Lab	Work Clinica	/ alCredit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
ENG	111	Writing and Inquiry	3	0	0	3
HSE	110	Introduction to Human Services	2	2	0	3
SWK	110	Introduction to Social Work	3	0	0	3
		Elective Course I**	2-3	0-2	0	2-3
			10-11	4-6	0	12-13
		First Year – Spring Semeste	r			
ENG	112	Writing/Research in the Disciplines	3	0	0	3
HSE	123	Interviewing Techniques	2	2	0	3
PSY	150	General Psychology	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
			11	2	0	12

		Even Years – Fall Semester				
SWK	113	Working with Diversity	3	0	0	3
SWK	115	Community Resources	2	2	0	3
		Elective Course II**	2-3	0-2	0	2-3
			—			
			7-8	2-4	0	8-9
		Odd Years – Spring Semester		_	_	_
HSE	210	Human Services Issues	2	0	0	2
MAT	143	Quantitative Literacy	2	2	0	3
SOC	213	Sociology of the Family	3	0	0	3 3 3
SWK		Social Work Law	3	0	0	
WBL	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Learning Seminar I	1	0	0	1
			11	2	10	13
		Odd Years – Fall Semester				
HSE	112	Group Process I	1	2	0	2
HSE	125	Counseling	2	2	0	3
HSE	225	Crisis Intervention	3 3	0	0	2 3 3 3
		Humanities/Fine Arts Elective*	3	0	0	3
			9	4	0	11
		Even Years – Spring Semester				-
PSY	241	Developmental Psychology	3	0	0	3
SWK	220	Social Work Issues in Client Services	3	0	0	3
		Elective Course III**	2-3	0-2	0	2-3
			<u> </u>	0-2	0	<u> </u>

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*Approved Electives are listed on the page before the Course Descriptions.

HST: SOCIAL SERVICES (CERTIFICATE) (C45380SC) COURSE REQUIREMENTS

					Work/	
			Class	Lab	Clinical	Credit
HSE	110	Introduction to Human Services	2	2	0	3
HSE	123	Interviewing Techniques	2	2	0	3
HSE	225	Crisis Intervention	3	0	0	3
PSY	150	General Psychology	3	0	0	3
or						
SOC	213	Sociology of the Family	3	0	0	3
SWK	110	Introduction to Social Work	3	0	0	3
SWK	113	Working with Diversity	3	0	0	3

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Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - HUMAN SERVICES TECHNOLOGY: SOCIAL SERVICES (A4538D)

Student Name: _____

_____ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Social Services Certificate (C45380SC) Course Requirements 18 credit hours: Complete Sections I (as required) and II, A.

Courses	Cr.	Recommended	Prerequisites/	Semester Registered/ Planned	Semester Completed/ Grade
Courses	Cr.	Semester	Corequisites	Planneu	Graue
HSE 110 Introduction to Human Services*	3	(D, E) 1 st year - fall	Pre: DRE 097 Co: DRE 098		
HSE 123 Interviewing Techniques*	3	(D) 1 st year - fall	Pre: DRE 097		
	_	(E) 1 st year - spring	Co: DRE 098		
HSE 225 Crisis Intervention*	3	(D) 2 nd year - spring	Pre: DRE 098 or ENG 090 and		
HSE 225 Chais intervention	5	(E) odd year- fall	RED 090		
PSY 150 General Psychology* or SOC 213 Sociology of the Family* <i>Note: Both are required for degree.</i>	3	 (D) 1st year - spring (E) 1st year - spring (D) 2nd year - fall (E) Odd year - spring 	Pre: DRE 098 or ENG 090 and RED 090		
SWK 110 Introduction to Social Work	3	(D) 1 st year - fall (E) 1 st year - fall	None		
SWK 113 Working with Diversity	3	(D) 1 st year - spring (E) Even year - fall	Pre: DRE 098 ENG 090 and RED 090		

B. Human Services Technology: Social Services Associate in Applied Science Degree (A4538D) Course Requirements 65-67 credit hours: Complete Sections I (as required) and II, A and B.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	(D, E) 1 st year - fall	None		
ENG 111 Writing and Inquiry	3	(D, E) 1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
SOC 210 Introduction to Sociology	3	(D) 1 st year - fall (E) 1 st year - spring	Pre: DRE 098 or ENG 090 and RED 090		
ENG 112 Writing/Research in the Disciplines	3	(D, E) 1 st year - spring	Pre: ENG 111		
HSE 112 Group Process I*	2	(D) 1 st year - spring (E) Odd year - fall	Pre: DRE 097, Enrollment in HSE program Co: DRE 098		
HSE 125 Counseling*	3	 (D) 1st year - spring (E) Odd year - fall 	Pre: PSY 150		
MAT 143 Quantitative Literacy	3	 (D) 1st year - spring (E) Odd year - spring 	Pre: DMA 010-050, DRE 098 Co: ACA 122		
PSY 241 Developmental Psychology*	3	(D) 2 nd year - fall (E) Even year - spring	Pre: PSY 150		

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SWK 115 Community Resources	3	(D) 2 nd year - fall (E) Even year - fall	Pre: DRE 098 ENG 090 and RED 090	
SWK 214 Social Work Law	3	(D) 2 nd year - fall (E) Odd year - spring	Pre: Pre: DRE 098 ENG 090, RED 090 and SWK 110	
HSE 210 Human Services Issues*	2	(D) 2 nd year - spring (E) Odd year - spring	Pre: Successful completion of 12 SHC in the HSE major courses	
SWK 220 Social Work Issues in Client Services	3	(D) 2nd year - spring(E) Even year - spring	Pre: DRE 098 ENG 090 and RED 090	
WBL 111 Work Based Learning I	1	(D) 2 nd year - spring (E) Odd year - spring	Pre: 9 or 14 SHC in the major core courses depending on program Co: WBL 115	
WBL 115 Work Based Learning Seminar I	1	(D) 2 nd year - spring (E) Odd year - spring	Pre: 9 or 14 SHC in the major core courses depending on program Co: WBL 111	

Must take any three of the following (7-9 credit hours) to complete degree requirements:								
CIS 110, GRO 120, HSE	127, HSE 155, HSE 220, HSE 227, HSE 242, H	ISE 250, HSE 251, HSE 255, SAB 110, SAB 120, SAB	3 125, SAB 135, SAB 240					
Course Recommended Semester Semester Registered/Planned Semester Completed/G								
	(D, E) 1 st year - fall							
	(D) 2 nd year - fall							
	(E) Even year - fall							
	(D) 2 nd year - spring							
	(E) Even year - spring							

Electives: (All degree seeking students must take one Humanities/Fine Arts and elective from list below unless a specific course is required above.)

•	Arts Electives (3 credits)** Courses w , REL, and SPA (Intermediate Spanish I only)	ith the following prefixes will satisfy this require	ment: ART, DRA, ENG (literature courses
Courses offered at RCC			
	 G 131, ENG 125, ENG 231, ENG 232, MUS 11(0. PHI 240. REL 211. REL 212. SPA 211	
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	(D) 2 nd year - spring	_	· · ·
	(E) Odd year - fall		
OTES: *All courses r	nust be completed with a grade of "C" or be	tter.	

*All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:		Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

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HUMAN SERVICES TECHNOLOGY: SUBSTANCE ABUSE (A4538E)

The Human Services Technology/Substance Abuse concentration prepares students to assist in drug and alcohol counseling, prevention-oriented educational activities, rehabilitation with recovering clients, managing community-based programs, counseling in residential facilities, and pursuit of four-year degrees.

Course work includes classroom and experiential activities oriented toward an overview of chemical dependency, psychological/sociological process, the twelve Core Functions, intervention techniques with individuals in groups, and follow-up activities with recovering clients.

Graduates should qualify for positions as substance abuse counselors, DUI counselors, halfway house workers, residential facility employees, and substance education specialists. With educational and clinical experiences, graduates can obtain certification by the North Carolina Substance Abuse Board.

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.

						Work/	
				Class	Lab	Clinica	lCredit
A.	General l	Educa	tion Courses				
	1. Requi	red Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
	MAT	143	Quantitative Literacy	2	2	0	3
	SOC	210	Introduction to Sociology	3	0	0	3
			Humanities/Fine Arts Elective*	3	0	0	3
В.	Major Co	ourses	1				
	1. Core C	Course	es				
	To rec	eive a	degree, diploma or certificate from RCC,	a student	must k	nave a gr	ade of "C"
	or bet	ter in	all core courses for the program of study.				
	HSE	110	Introduction to Human Services	2	2	0	3
	HSE	112	Group Process I	1	2	0	2
	HSE	123	Interviewing Techniques	2	2	0	3
	HSE	125	Counseling	2	2	0	3
	HSE	210	Human Services Issues	2	0	0	2
	HSE	225	Crisis Intervention	3	0	0	3
	PSY	150	General Psychology	3	0	0	3
	PSY	241	Developmental Psychology	3	0	0	3
	SOC	213	Sociology of the Family	3	0	0	3

2.	Conce	ntratio	on Courses				
	SAB	110	Substance Abuse Overview	3	0	0	3
	SAB	120	Intake and Assessment	3	0	0	3
	SAB	125	Substance Abuse Case Management	2	2	0	3
	SAB	135	Addictive Processes	3	0	0	3
	SAB	240	Substance Abuse Issues in Client Services	3	0	0	3
	WBL	111	Work-Based Learning I	0	0	10	1
	WBL	115	Work-Based Learning Seminar I	1	0	0	1
3.	Other	Majoı	Courses				
	ACA	122	College Transfer Success	0	2	0	1
	CIS	110	Introduction to Computers	2	2	0	3
	HSE	227	Children & Adolescents in Crisis	3	0	0	3
	SWK	113	Working with Diversity	3	0	0	3

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Work/

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE HST: SUBSTANCE ABUSE (DAY)

					VV OI IX/	
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
ENG	111	Writing and Inquiry	3	0	0	3
HSE	110	Introduction to Human Services	2	2	0	3
HSE	123	Interviewing Techniques	2	2	0	3
PSY	150	General Psychology	3	0	0	3
SAB	110	Substance Abuse Overview	3	0	0	3
			13	6	0	16
		First Year – Spring Semester	r			
CIS	110	Introduction to Computers	2	2	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
HSE	112	Group Process I	1	2	0	2
HSE	125	Counseling	2	2	0	3
SAB	120	Intake and Assessment	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
			14	6	0	17
		Second Year – Fall Semester	•			
HSE	227	Children & Adolescents in Crisis	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
SAB	125	Substance Abuse Case Management	2	2	0	3
SAB	135	Addictive Processes	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3

SWK	113	Working with Diversity	3	0	0	3
			17	2	0	<u> </u>
		Second Year – Spring Seme			-	
HSE	210	Human Services Issues	2	0	0	2
HSE	225	Crisis Intervention	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
SAB	240	Substance Abuse Issues in Client Services	3	0	0	3
WBL	111	Work-Based Learning I	0	0	10	1
WBL	115	Work-Based Learning Seminar I	1	0	0	1
		Humanities/Fine Arts Elective*	3	0	0	3
						—
			14	2	10	16
	T	otal Credit Hours			67	

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE HST: SUBSTANCE ABUSE (EVENING)

				Work/	
		Class	Lab	Clinical	Credit
	First Year – Fall Semester				
ACA 1	22 College Transfer Success	0	2	0	1
CIS 1	10 Introduction to Computers	2	2	0	3
ENG 1	11 Writing and Inquiry	3	0	0	3
HSE 1	10 Introduction to Human Services	2	2	0	3
SAB 1	10 Substance Abuse Overview	3	0	0	3
		10	6	0	13
	Einet Warnen Gruning Gammadam	10	0	0	15
ENC 1	First Year – Spring Semester	2	0	0	2
	12 Writing/Research in the Disciplines	3	0	0	3
	23 Interviewing Techniques	2	2	0	3
	50 General Psychology	3	0	0	3
SOC 2	210 Introduction to Sociology	3	0	0	3
		<u> </u>	2	0	12
	Even Years – Fall Semester	11	-	U	12
HSE 2	227 Children & Adolescents in Crisis	3	0	0	3
	20 Intake and Assessment	3	0	0	3
		2	2		
	e	2 3		0	3 3
SWK 1	13 Working with Diversity	3	0	0	3
		11	2	0	12
	Odd Years – Spring Semester				
HSE 2	Human Services Issues	2	0	0	2

MAT SAB SOC	143 135 213	Quantitative Literacy Addictive Processes Sociology of the Family	2 3 3	2 0 0	0 0 0	3 3 3
			10	2	0	11
		Odd Years – Fall Semester				
HSE	112	Group Process I	1	2	0	2
HSE	125	Counseling	2	2	0	3
HSE	225	Crisis Intervention	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			9	4	0	11
		Even Years – Spring Semeste	r			
PSY	241	Even Years – Spring Semeste Developmental Psychology	r 3	0	0	3
PSY SAB	241 240	Even Years – Spring Semeste Developmental Psychology Substance Abuse Issues in Client Services		0 0	0 0	3 3
		Developmental Psychology Substance Abuse Issues in Client Services	3		-	
SAB	240 111	Developmental Psychology	3 3	0	0	
SAB WBL	240 111	Developmental Psychology Substance Abuse Issues in Client Services Work-Based Learning I	3 3	0 0	0 10	
SAB WBL	240 111	Developmental Psychology Substance Abuse Issues in Client Services Work-Based Learning I	3 3	0 0	0 10	

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Total Credit Hours *Approved Electives are listed on the page before the Course Descriptions.

HST: SUBSTANCE ABUSE (CERTIFICATE) (C45380SA) COURSE REQUIREMENTS

					Work/	
			Class	Lab	Clinical	Credit
HSE	110	Introduction to Human Services	2	2	0	3
HSE	112	Group Process I	1	2	0	2
HSE	123	Interviewing Techniques	2	2	0	3
HSE	225	Crisis Intervention	3	0	0	3
SAB	110	Substance Abuse Overview	3	0	0	3
SAB	135	Addictive Processes	3	0	0	3
					—	—
			14	6	0	17
	Τα	otal Credit Hours			17	

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - HUMAN SERVICES TECHNOLOGY: SUBSTANCE ABUSE (A4538E)

Student Name: _____

_____ Date of Enrollment: _____

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Substance Abuse Certificate (C45380SA) Course Requirements 17 credit hours: Complete Sections I (as required) and II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
HSE 110 Introduction to Human Services*	3	(D, E) 1 st year - fall	Pre: DRE 097 Co: DRE 098		
HSE 112 Group Process I*	2	(D) 1 st year - spring (E) Odd year - fall	Pre: DRE 097, Enrollment in HSE program Co: DRE 098		
HSE 123 Interviewing Techniques*	3	 (D) 1st year - fall (E) 1st year - spring 	Pre: DRE 097 Co: DRE 098		
HSE 225 Crisis Intervention*	3	(D) 2nd year - spring(E) Odd year - fall	Pre: DRE 098 or ENG 090 and RED 090		
SAB 110 Substance Abuse Overview	3	(D) 1 st year - fall (E) 1 st year - fall	Pre: None		
SAB 135 Addictive Processes	3	(D) 2 nd year - fall (E) Odd year - spring	Pre: None		

Human Services Technology: Substance Abuse Associate in Applied Science Degree (A4538E) Course Requirements 67 credit Β. hours: Complete Sections I (as required) and II, A and B.

				Semester	Semester
		Recommended	Prerequisites/	Registered/	Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	(D, E) 1 st year - fall	None		
ENG 111 Writing and Inquiry	3	(D, E) 1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
PSY 150 General Psychology*	3	(D) 1 st year - fall (E) 1 st year - spring	Pre: DRE 098 or ENG 090 and RED 090		
CIS 110 Introduction to Computers	3	 (D) 1st year - spring (E) 1st year - fall 	Pre: DRE 097 Co: DRE 098		
ENG 112 Writing/Research in the Disciplines	3	(D, E) 1 st year - spring	Pre: ENG 111		
HSE 125 Counseling*	3	(D) 1 st year - spring (E) Odd year - fall	Pre: PSY 150		
SAB 120 Intake and Assessment	3	(D) 1 st year - spring (E) Even year - fall	Pre: DRE 098 or ENG 090 and RED 090		
SOC 210 Introduction to Sociology	3	 (D) 1st year - spring (E) 1st year - spring 	Pre: DRE 098 or ENG 090 and RED 090		
HSE 227 Children & Adolescents in Crisis	3	(D) 2 nd year - fall (E) Even year - fall	Pre: DRE 098 or ENG 090 and RED 090		
PSY 241 Developmental Psychology*	3	(D) 2 nd year - fall (E) Even Year - spring	Pre: PSY 150		

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	-			
SAB 125 Substance Abuse Case Management	3	(D) 2 nd year - fall	Pre: DRE 098 or ENG 090 and	
SAB 125 Substance Abuse Case Management	5	(E) Even year - fall	RED 090	
SOC 213 Sociology of the Family*	3	(D) 2 nd year - fall	Pre: DRE 098 or ENG 090 and	
SOC 213 Sociology of the Failing	5	(E) Odd year - spring	RED 090	
SWK 112 Working with Diversity	3	(D) 2 nd year - fall	Pre: DRE 098 ENG 090 and RED	
SWK 113 Working with Diversity	3	(E) Even year - fall	090	
	2	(D) 2 nd year - spring	Pre: DMA 010-050, DRE 098	
MAT 143 Quantitative Literacy	3	(E) Odd year - spring	Co: ACA 122	
	2	(D) 2 nd year - spring	Pre: Successful completion of 12	
HSE 210 Human Services Issues*	2	(E) Odd year - spring	SHC in the HSE major courses	
SAB 240 Substance Abuse Issues in Client	3	(D) 2 nd year - spring	Pre: DRE 098 or ENG 090 and	
Services	3	(E) Even year - spring	RED 090	
			Pre: 9 or 14 SHC in the major	
WBL 111 Work-Based Learning I	1	(D) 2 nd year - spring	core courses depending on	
	T	(E) Even year - spring	program	
			Co: WBL 115	
			Pre: 9 or 14 SHC in the major	
WPL 115 Work Deced Learning Cominer L	1	(D) 2 nd year - spring	core courses depending on	
WBL 115 Work-Based Learning Seminar I	1	(E) Even year - spring	program	
			Co: WBL 111	

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts and elective from list below unless a specific course is required above.)

•	rts Electives (3 credits)** Courses w REL, and SPA (Intermediate Spanish I only)	ith the following prefixes will satisfy this require	ment: ART, DRA, ENG (literature courses							
Courses offered at RCC:										
ART 111, DRA 111, ENG	125, ENG 131, ENG 231, ENG 232, MUS 110	J, PHI 240, REL 211, REL 212, SPA 211								
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade							
	(D) 2 nd year - spring									
	(E) Odd year - fall									

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

INDUSTRIAL MAINTENANCE TECHNICIAN Industrial Systems Technology (A50240)

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems.

Students will learn multi-craft technical skills in blueprint reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

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.

						Work/	
				Class	Lab	Clinical	Credit
А.	General	Educa	tion Courses				
	1. Requ	ired Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
	COM	231	Public Speaking	3	0	0	0
	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 C	ourses	8				
	1. Core	Course	es				
	To re	ceive a	degree, diploma or certificate from RCC,	a student	must k	nave a gra	ide of "C"
	or be	tter in	all core courses for the program of study.				
	BPR	111	Print Reading	1	2	0	2
	ELC	112	DC/AC Electricity	3	6	0	5
	ELC	120	Introduction to Wiring	2	2	0	3
	ELC	128	Introduction to PLC	2	3	0	3
	HYD	110	Hydraulics/Pneumatics I	2	3	0	3
	HYD	180	Fluid Power in Automation	2	3	0	3
	ISC	112	Industrial Safety	2	0	0	2
	MEC	111	Machine Processes I	1	4	0	3

	MEC	130	Mechanisms	2	2	0	3
	MNT	110	Intro to Maintenance Procedures	1	3	0	2
	WLD	112	Basic Welding Processes	1	3	0	2
	2. Other 1	Major	Courses				
	CIS	110	Introduction to Computers	2	2	0	3
	ELC	117	Motors and Controls	2	6	0	4
	ELC	125	Diagrams and Schematics	1	2	0	2
	ELN	229	Industrial Electronics	3	3	0	4
	MAC	114	Introduction to Metrology	2	0	0	2
	MNT	230	Pumps & Piping Systems	1	3	0	2
	MNT	240	Industrial Equipment Troubleshooting	1	3	0	2
С.	Other Ree	quire	d Courses				
	ACA	122	College Transfer Success	0	2	0	1

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*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE INDUSTRIAL SYSTEMS TECHNOLOGY (DAY)

			/01 (D)	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
ELC	112	DC/AC Electricity	3	6	0	5
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
			10	12	0	15
		First Year – Spring Semester	ſ			
BPR	111	Print Reading	1	2	0	2
ELC	125	Diagrams and Schematics	1	2	0	2
COM	231	Public Speaking	3	0	0	2 3
or						
ENG	112	Writing/Research in the Disciplines	3	0	0	3
ELN	229	Industrial Electronics	3	3	0	4
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
ISC	112	Industrial Safety	2	0	0	2
		Humanities/Fine Arts Elective*	3	0	0	3
			15	10	0	<u> </u>
		Second Year – Fall Semester				
ELC	120	Introduction to Wiring	2	2	0	3
HYD	180	Fluid Power in Automation	2	3	0	
MEC	111	Machine Processes I	1	4	0	3
						3 3

MEC MNT WLD	130 230 112	Mechanisms Pumps & Piping Systems Basic Welding Processes	2 1 1	2 3 3	0 0 0	3 2 2
				17		<u> </u>
			9	17	0	16
		Second Year – Spring Semeste	er			
ELC	117	Motors and Controls	2	6	0	4
ELC	128	Introduction to PLC	2	3	0	3
MAC	114	Introduction to Metrology	2	0	0	2
MNT	110	Intro to Maintenance Procedures	1	3	0	2
MNT	240	Industrial Equipment Troubleshooting	1	3	0	2
		Social/Behavioral Sciences Elective*	3	0	0	3
			11	15	0	16

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*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE

]	INDUS	STRIAL SYSTEMS TECHNOLOGY (DIPLOM	A) (D5	(0240)	(EVENI	NG)
					Work/	
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
BPR	111	Print Reading	1	2	0	2 5
ELC	112	DC/AC Electricity	3	6	0	5
			4	10	0	8
		First Year – Spring Semester		-	-	-
ELC	125	Diagrams and Schematics	1	2	0	2
ISC	112	Industrial Safety	2	0	0	2
MEC	111	Machine Processes I	1	4	0	3
MNT	110	Intro to Maintenance Procedures	1	3	0	2
			5	9	0	9
		First Year – Summer Semester	r	-	, i i i i i i i i i i i i i i i i i i i	-
ENG	111	Writing and Inquiry	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			6	0	0	6
		Second Year – Fall Semester	0	0	0	U
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
MEC	130	Mechanisms	$\frac{1}{2}$	2	0 0	3
WLD	112	Basic Welding Processes	1	3	0 0	2
						_

			5	8	0	8
		Second Year – Spring Semes	ter			
ELC	117	Motors and Controls	2	6	0	4
ELC	128	Introduction to PLC	2	3	0	3
						—
			4	9	0	7
	Т	otal Credit Hours			38	

SEMESTER SCHEDULE INDUSTRIAL SYSTEMS TECHNOLOGY (CERTIFICATE) (C50240) Work/

					Work/	
			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
BPR	111	Print Reading	1	2	0	2
ELC	112	DC/AC Electricity	3	6	0	5
or						
MEC	111	Machine Processes I	1	4	0	3
WLD	112	Basic Welding Processes	1	3	0	2
			3-5	9-11	0	7-9
		First Year – Spring Semester	r			
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
ISC	112	Industrial Safety	2	0	0	2
MNT	110	Intro to Maintenance Procedures	1	3	0	2
			5	6	0	7

Total Credit Hours

14-16

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - INDUSTRIAL SYSTEMS TECHNOLOGY (A50240) **Industrial Maintenance Technician**

Student Name: ___

_____ Date of Enrollment: ______ ID#: _____ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Industrial Systems Technology Certificate (C50240) Course Requirements 14-16 credit hours: Complete Section I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
BPR 111 Print Reading*	2	(C) 1 st year - fall (Dg, Dp)1 st year – spring	Pre: DMA 010-020		
ELC 112 DC/AC Electricity* or	5	1 st year – fall	Pre: DMA 010		
MEC 111 Machine Processes I* (ELC 112 & MEC 111 required for diploma and degree)	3	(Dp, C) 1 st year - fall (Dg) 2 nd year – fall	Pre: DMA 010-020		
HYD 110 Hydraulics/Pneumatics I*	3	1 st year – spring	Pre: DMA 010-030 or MAT 060		
ISC 112 Industrial Safety*	2	1 st year – spring	None		
MNT 110 Intro to Maintenance Procedures*	2	(Dp, C) 1 st year - spring 2 nd year – spring	None		
WLD 112 Basic Welding Procedures*	2	(Dp, C) 1 st year - fall 2 nd year – fall	None		

Dg=Degree Dp=Diploma C=Certificate

B. Industrial Systems Technology Diploma (D50240) Course Requirements 38 credit hours: Complete Sections I (as required) Section II, A, and B, and Social/Behavioral Sciences elective.

	Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Cr.	Semester	Corequisites	Planned	Grade
1	1 st year – fall	None		
3	(Dg) 1 st year – fall (Dp)1 st year – summer	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
2	1 st year - spring	None		
3	(Dp) 1 st year – fall (Dg) 2 nd year - fall	Pre: DMA 010-020		
4	(Dp)1 st year – spring (Dg) 2 nd year - spring	Pre: ELC 112 or ELC 131		
3	(Dp)1 st year – spring (Dg) 2 nd year - spring	Pre: ELC 112 or ELC 131		
	1 3 2 3 4	Cr. Semester 1 1^{st} year – fall (Dg) 1^{st} year – fall (Dp) 1^{st} year – fall 3 (Dp) 1^{st} year – spring 2 1^{st} year - spring 3 (Dp) 1^{st} year – fall (Dg) 2^{nd} year – fall (Dg) 2^{nd} year – fall 4 (Dp) 1^{st} year – spring 3 (Dp) 1^{st} year – spring 3 (Dp) 1^{st} year – spring	Cr.SemesterCorequisites1 1^{st} year - fallNone3 $(Dg) 1^{st}$ year - fallPre: DRE 098 or ENG 090 and3 $(Dp)1^{st}$ year - fallPre: DRE 098 or ENG 090 and2 1^{st} year - springNone3 $(Dp)1^{st}$ year - fallPre: DMA 010-0204 $(Dp)1^{st}$ year - springPre: ELC 112 or ELC 1313 $(Dp)1^{st}$ year - springPre: ELC 112 or ELC 131	Recommended SemesterPrerequisites/ CorequisitesRegistered/ Planned11st year - fallNone3(Dg) 1st year - fall (Dp)1st year - summerPre: DRE 098 or ENG 090 and RED 090 Co: ACA 12221st year - spring (Dg) 2nd year - fall (Dg) 2nd year - fall (Dg) 2nd year - springPre: DMA 010-0204(Dp)1st year - spring (Dg) 2nd year - spring (Dg) 2nd year - springPre: ELC 112 or ELC 1313(Dp)1st year - spring (Dg) 2nd year - springPre: ELC 112 or ELC 131

Revised August 3, 2017

C. Industrial Systems Technology Associate in Applied Science Degree (A50240) Course Requirements 66 credit hours: Complete Sections I (as required) and Section II, A, B, and C.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
CIS 110 Introduction to Computers	3	1 st year – fall	Pre: DRE 097 Co: DRE 098		
MAT 143 Quantitative Literacy	3	1 st year – fall	Pre: DMA 010-050, DRE 098 Co: ACA 122		
COM 231 Public Speaking or	3	1 st year - spring	Pre: DRE 098 or ENG 090 and RED 090		
ENG 112 Writing/Research in the Disciplines			Pre: ENG 111		
ELN 229 Industrial Electronics	4	1 st year - spring	Pre: ELC 112 or ELC 131		
ELC 120 Introduction to Wiring	3	2 nd year - fall	None		
HYD 180 Fluid Power in Automation	3	2 nd year - fall	None		
MAC 114 Introduction to Metrology	2	2 nd year - spring	None		
MNT 230 Pumps and Piping Systems	2	2 nd year - fall	None		
MNT 240 Industrial Equipment Troubleshooting	2	2 nd year - spring	Pre: ELC 112 or ELC 131 Co: ELC 128 or ELN 260		

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses										
only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).										
Courses offered at RCC:										
ART 111, DRA 111, ENG	131, ENG 231, ENG 232, MUS 110, PHI 240	, REL 211, REL 212, SPA 211								
Course	Course Recommended Semester Semester Registered/Planned Semester Completed		Semester Completed/Grade							
	1 st year - spring									

-	• • •	urses with the following prefixes will satisfy this mics and do not accept ECO courses as fulfillmer	
Courses offered at RCC: ANT 220, HIS 111, HIS 1	12, HIS 131, HIS 132, PSY 150, PSY 241, SOC	: 210, SOC 213	
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	1 st year – summer		

NOTES: *All courses must be completed with a grade of "C" or better. **See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

Infant/Toddler Care (Certificate) (C55290)

The curriculum prepares individuals to work with children from infancy to three years of age in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with infants and toddlers.

Course work includes infant/toddler growth and development: physical/nutritional needs of infants and toddlers; safety issues in the care of infants and toddlers; care and guidance; communication skills with families and children; design and implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate infant/toddler programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start Programs, and other infant/toddler programs.

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.

		Work/						
		. ~			Class	Lab (Clinica	l Credit
۱.	Ma	ajor Co	ourses	5				
	1.	Core C	Course	es				
		To rec	eive a	degree, diploma or certificate from RCC	, a student	must he	ive a gr	ade of "C"
		or bett	ter in d	all core courses for the program of study.			U	U
		EDU	119	Intro to Early Childhood Education	4	0	0	4
		EDU	131	Child, Family, & Community	3	0	0	3
		EDU	144	Child Development I	3	0	0	3
		EDU	153	Health, Safety, & Nutrition	3	0	0	3
		EDU	234	Infants, Toddlers, & Twos	3	0	0	3
				Total Credit Hours			16	

Revised August 3, 2017

Α

SEMESTER SCHEDULE INFANT/TODDLER CARE (CERTIFICATE)

	in (in (i) i obbeen enne (centilitente)									
				Work/						
			Class	Lab	Clinical	Credit				
		First Year – Fall Semester								
EDU	119	Intro to Early Childhood Education	4	0	0	4				
EDU	131	Child, Family, & Community	3	0	0	3				
EDU	144	Child Development I	3	0	0	3				
						_				
			10	0	0	10				
		First Year – Spring Semester	ſ							
EDU	153	Health, Safety, & Nutrition	3	0	0	3				
EDU	234	Infants, Toddlers, & Twos	3	0	0	3				
			6	0	0	6				
	Total Credit Hours16									

Program Completion Guide INFANT/TODDLER CARE (Certificate) (C55290)

Student Name: ______ ID# _____

Date of Enrollment: _____

A Criminal Background check may be required as a condition of employment in the childhood education field.

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Infant/Toddler Care Certificate (C55290) Course Requirements 16 credit hours: Complete Sections I (as required) and Section II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
EDU 119 Intro to Early Childhood Education*	4	1 st year – fall	None		
EDU 131 Child, Family, and Community *	3	1 st year – fall	Pre: None Co: DRE 097		
EDU 144 Child Development I*	3	1 st year – fall	Pre: None Co: DRE 097		
EDU 153 Health, Safety, & Nutrition*	3	1 st year – spring	Pre: None Co: DRE 097		
EDU 234 Infants, Toddlers, & Twos*	3	1 st year – spring	Pre: EDU 119 Co: DRE 098		

*All courses must be completed with a grade of "C" or better. NOTES:

******See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

Information Technology (A25590)

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

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

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

COURSE REQUIREMENTS

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

CYBER SECURITY (A25590A) COURSE REQUIREMENTS

					Work/			
					Class	Lab	Clinica	lCredit
A.	Ge	eneral H	Educa	tion Courses				
	1.	Requir	red Co	Durses				
		ENG	111	Writing and Inquiry	3	0	0	3
		COM	231	Public Speaking	3	0	0	3
		or						
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
		MAT	143	Quantitative Literacy	2	2	0	3
				Humanities/Fine Arts Elective*	3	0	0	3
				Social/Behavioral Sciences Elective*	3	0	0	3
B.	Ma	ajor Co	urses	1				
	1.	Core C	Course	es				
		To rec	eive a	degree, diploma or certificate from RCC,	a student	must k	nave a gr	ade of "C"
		or bett	ter in d	all core courses for the program of study.				
		CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
		CTI	120	Network & Security Foundation	2	2	0	3

3

0

3

0

	CTS	120	Hardware/Software Support	2	3	0	3
	CTS	289		1	4	0	3
	NET	125	Introduction to Networks	1	4	0	3
	SEC	110	Security Concepts	2	2	0	3
	SEC	160	Security Administration I	2	2	0	3
2.	Other	Majoi	Courses				
	CIS	115	Introduction to Programming Logic	2	3	0	3
	CTS	220	Advanced Hard/Software Support	2	3	0	3
	DBA	120	Database Programming I	2	2	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	2	0	3
			IT Major Elective**	Varies	Varies	0	4
C. Other Required Courses							
	ACA	122	College Transfer Success	0	2	0	1
			Total Credit Hours			65	

*Approved Electives are listed on the page before the Course Descriptions. **Approved 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
CHI	111	Elementary Chinese I	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
CIS	111	Basic PC Literacy	1	2	0	2
CSC	151	Java Programming	2	3	0	3
CSC	153	C# Programming	2	3	0	3
CTS	130	Spreadsheet	2	2	0	3
CTS	155	Tech Support Functions	2	2	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
HBI	110	Issues and Trends in HBI	3	0	0	3
HMT	110	Intro to Healthcare Management	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	221	Consumer Behavior	3	0	0	3
MKT		Customer Service	3	0	0	3

OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	110	Intro to Project Management	3	0	0	3
PMT	210	Project Management Issues	2	2	0	3
PMT	215	Project Management Leadership	3	0	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3

SEMESTER SCHEDULE CYBER SECURITY (A25590A)

					1101 IX /	
			Class	Lab	Clinica	lCredit
		First Year — Fall Semeste	r			
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	$\frac{1}{12}$	0	13
		First Year — Spring Semes	-		Ū.	
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	$\frac{1}{2}$	$\frac{1}{2}$	0 0	3
SEC	110	Security concepts	_	_		
			10	11	0	15
		First Year — Summer Seme	ster			
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Humanities/Fine Arts Elective*	3	0	0	3 3
		Social/Behavioral Sciences Elective*	3	0	0	3
			11	2	0	12
		Second Year — Fall Semest	er			
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 Veen Crains Serve	0	0	U	14

Work/

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
WEB	140	Web Development Tools	2	2	0	3
		IT Major Elective**	Varies	Varies	0	4
				—	—	
			Varies	Varies	0	13
		Total Credit Hours			65	

*Approved Electives are listed on the page before the Course Descriptions.

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						
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
CTS	115	Info Sys Business Concepts	3	0	0	3
CTS	120	Hardware/Software Support	2	3	0	3
CTS	220	Advanced Hard/Software Support	2	3	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
NET	125	Introduction to Networks	1	4	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	130	Windows Single User	2	2	0	3
NOS	230	Windows Administration I	2	2	0	3
SEC	110	Security Concepts	2	2	0	3
SEC	160	Security Administration I	2	2	0	3
WEB	140	Web Development Tools	2	2	0	3
		-				

Total Credit Hours

46

SEMESTER SCHEDULE CYBER SECURITY TECHNICIAN (CERTIFICATE) (C25590A1)

			Class	Lab	Work/ Clinical	Credit
		First Year — Fall Semester				
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3

CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
			—			—
			6	7	0	9
		First Year — Spring Semester				
NET	125	Introduction to Networks	1	4	0	3
SEC	110	Security Concepts	2	2	0	3
			3	6	0	6
		First Year — Summer Semeste	r			
SEC	160	Security Administration I	2	2	0	3
			2	2	0	3
		Total Credit Hours			18	

SEMESTER SCHEDULE SECURITY+ PREP (CERTIFICATE) (C25590A2)

		/ (/	
		Class	Lah	Work/ Clinical	Credit
		Class	Lau	Cinnca	leituit
	First Year — Fall Semester				
110	Web, Pgm, & DB Foundation	2	2	0	3
120	Network & Security Foundation	2	2	0	3
120	Hardware/Software Support	2	3	0	3
		6	7	0	9
	First Year — Spring Semeste	r			
110	Security Concepts	2	2	0	3
		2	2	0	3
	Total Credit Hours			12	
	120 120	 120 Network & Security Foundation 120 Hardware/Software Support First Year — Spring Semeste 110 Security Concepts 	110Web, Pgm, & DB Foundation2120Network & Security Foundation2120Hardware/Software Support2First Year — Spring Semester110Security Concepts222	First Year — Fall Semester110Web, Pgm, & DB Foundation22120Network & Security Foundation22120Hardware/Software Support2367First Year — Spring Semester110Security Concepts22222	ClassLabClinicalFirst Year — Fall Semester110Web, Pgm, & DB Foundation220120Network & Security Foundation220120Hardware/Software Support230

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).

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE INFORMATION TECHNOLOGY: CYBER SECURITY (A25590A)

Student Name: ____

_____ ID #: _____ Date of Enrollment: _____

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Information Technology: Security+ Prep (Certificate) (C25590A2) Course Requirements 12 credit hours: Complete Section I (as required) and Section II, A. 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).

Courses	6.	Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
			Pre: DMA 010-040		
CTI 110 Web, Pgm, & DB Foundation*	3	1 st year - fall	or MAT 070, DRE 097		
			Co: DRE 098		
			Pre: DMA 010-040		
CTI 120 Network & Sec Foundation*	3	1 st year - fall	or MAT 070, DRE 097		
			Co: DRE 098		
			Pre: DMA 010-040		
CTS 120 Hardware/Software Support*	3	1 st year - fall	or MAT 070, DRE 097		
			Co: DRE 098		
SEC 110 Security Concepts*	3	1 st year - spring	Pre: CTI 120		

B. Information Technology: Cyber Security Technician (Certificate) (C25590A1) Course Requirements 18 credit hours: Complete Section I (as required), Section II, A, and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
NET 125 Introduction to Networks*	3	1 st year - spring	Pre: DMA 010-040 or MAT 070, DRE 097		
SEC 160 Security Administration I*	3	2 nd year - fall	Pre: SEC 110		

C. Information Technology: Cyber Security (Diploma) (D25590A) Course Requirements 46 credit hours: Complete Section I (as required), Section II, A, B, and C.

RecommendedPrerequisites/Registered/Completed/CoursesCr.SemesterCorequisitesPlannedGrade					Semester	Semester
Courses Cr. Semester Corequisites Planned Grade			Recommended	Prerequisites/	Registered/	Completed/
	Courses	Cr.	Semester	Corequisites	Planned	Grade

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ACA 122 College Transfer Success	1	1 st year - fall	None	
CTS 115 Info Sys Business Concepts*	3	1 st year - spring	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098	
CTS 220 Adv Hard/Software Support	3	1 st year - spring	Pre: CTS 120	
NOS 130 Windows Single User	3	1 st year - spring	Pre: CTS 120	
ENG 111 Writing and Inquiry	3	1 st year - summer	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122	
MAT 143 Quantitative Literacy	3	1 st year - summer	Pre: DMA 010 – 050, DRE 098 Co: ACA 122	
NOS 120 Linux/UNIX Single User	3	2 nd year - fall	Pre: CTS 120	
NOS 230 Windows Administration I	3	2 nd year - fall	Pre: NOS 130	
COM 231 Public Speaking or	3	2 nd year - spring	Pre: DRE 098 or ENG 090 and RED 090	
ENG 112 Writing/Research in the Disciplines	3		Pre: ENG 111	
WEB 140 Web Development Tools	3	2 nd year - spring	Pre: CTI 110	

D. Information Technology: Cyber Security (A25590A) Course Requirements 65 credit hours: Complete Section I (as required), Section II, A, B, C, and D.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
CIS 115 Introduction to Programming and Logic	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
DBA 120 Database Programming I	3	2 nd year - fall	Pre: CTI 110		
CTS 289 System Support Project*	3	2 nd year - spring	Pre: CTI 110, CTI 120, CTS 115 and permission of IT lead instructor		

Required Subject Area:

IT Cyber Security Electives (Select 4 credit hours from the following courses)							
ACC 115, ACC 120, BUS 110, BUS 115, BUS 125, BUS 137, BUS 139, BUS 230, CHI 111, CIS 110, CIS 111, CSC 151, CSC 153, CTS 130, CTS 155, DBA 120, ECO 251, ECO 252, HBI 110, HMT 110, MKT 120, MKT 221, MKT 233, OST 136, OST 137, PMT 110, PMT 210, PMT 215, SPA 111, SPA 120, WEB 141, WEB 250.							
Note: Only 3 SHC of SPA are allowed	d towards the Information Technology de	gree.					
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	any						
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	any						

Electives: (All degree seeking students must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses						
only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).						
Courses offered at RCC:						
ART 111, ART 131, DRA 1	.11, ENG 131, ENG 241, ENG 262, ENG 272,	, MUS 110, PHI 240, REL 211, REL 212, SPA 211				
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade			
	1 st year - summer					

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY,								
and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)								
Courses offered at RCC:								
ANT 220, HIS 121, HIS 12	2, HIS 131, HIS 132, HIS 236, PSY 150, PSY	241, SOC 210, SOC 213						
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade					
	1 st year - summer							

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

INFORMATION TECHNOLOGY SUPPORT (A25590B) COURSE REQUIREMENTS

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

*Approved Electives are listed on the page before the Course Descriptions.

**Approved 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

DUC	115		2	0	0	2
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
CHI	111	Elementary Chinese I	3	0	0	3
CIS	115	Introduction to Programming and Logic	2	3	0	3
CSC	151	Java Programming	2	3	0	3
CSC	153	C# Programming	2	3	0	3
CTS	130	Spreadsheet	2	2	0	3
DBA	120	Database Programming I	2	2	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
HBI	110	Issues and Trends in HBI	3	0	0	3
HMT	110	Intro to Healthcare Management	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	221	Consumer Behavior	3	0	0	3
MKT	223	Customer Service	3	0	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	210	Project Management Issues	2	2	0	3
PMT	215	Project Management Leadership	3	0	0	3
SEC	160	Security Administration I	2	2	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
WEB	140	Web Development Tools	2	2	0	3
WEB	141	Mobile Interface Design	2	$\frac{1}{2}$	0	3
WEB	250	Database Driven Websites	$\frac{2}{2}$	$\frac{2}{2}$	0	3
	250	Database Driven websites	4	4	U	5

SEMESTER SCHEDULE INFORMATION TECHNOLOGY SUPPORT (A25590B)

			Class	Work/ Lab ClinicalCre		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 Semeste	r			
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 Seme	ster			
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
			<u> </u>	$\frac{1}{2}$	0	$\frac{1}{12}$
		Second Year — Fall Semest		2	0	14
CTS	155	Tech Support Functions	2	2	0	3
NOS	120	Linux/UNIX Single User	$\frac{2}{2}$	$\frac{2}{2}$	0	3
NOS	230	Windows Administration I	$\frac{2}{2}$	2	0	3
PMT	110	Intro to Project Management	3	$\frac{2}{0}$	0	3
1 101 1	110	intro to i roject intanagement		<u> </u>		
			9	6	0	12
		Second Year — Spring Seme	ster			
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
DBA	110	Database Concepts	2	3	0	3
		IT Major Elective**	Varies	Varies	0	4
			Varies	Varies	0	13

65

*Approved Electives are listed on the page before the Course Descriptions.

IT SUPPORT (DIPLOMA) (D25590B) COURSE REQUIREMENTS

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

SEMESTER SCHEDULE IT – ENTRY LEVEL COMPUTER TECHNICIAN (CERTIFICATE) (C25590B1)

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

Total Credit Hours

18

Work/

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

					Work/	
			Class	Lab	Clinica	lCredit
		First Year — Fall Seme	ster			
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
				—		
			4	5	0	6
		First Year — Spring Sem	ester			
CTS	220	Advanced Hard/Software Support	2	3	0	3
NOS	130	Windows Single User	2	2	0	3

	4	5	0	6
Total Credit Hours			12	

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).

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE INFORMATION TECHNOLOGY: IT SUPPORT (A25590B)

Student Name: ____

_____ ID #: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

Α. Information Technology: A+ Prep (Certificate) (C25590B2) Course Requirements 12 credit hours: Complete Section I (as required) and Section II, A. 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).

				Semester	Semester
		Recommended	Prerequisites/	Registered/	Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
			Pre: DMA 010-040		
CTI 120 Network & Sec Foundation*	3	1 st year - fall	or MAT 070, DRE 097		
			Co: DRE 098		
			Pre: DMA 010-040		
CTS 120 Hardware/Software Support*	3	1 st year - fall	or MAT 070, DRE 097		
			Co: DRE 098		
CTS 220 Adv Hard/Software Support*	3	1 st year - spring	Pre: CTS 120		
NOS 130 Windows Single User	3	1 st year - spring	Pre: CTS 120		

B. Information Technology: Entry Level Computer Technician (Certificate) (C25590B1) Course Requirements 18 credit hours: Complete Section I (as required), Section II, A, and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
CTI 110 Web, Pgm, & DB Foundation*	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
NET 125 Introduction to Networks	3	1 st year - spring	Pre: DMA 010-040 or MAT 070, DRE 097		

C. Information Technology: IT Support (Diploma) (D25590B) Course Requirements 46 credit hours: Complete Section I (as required), Section II, A, B, and C.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year - fall	None		
CIS 110 Introduction to Computers	3	1 st year - fall	Pre: DRE 097		

			Co: DRE 098	
CTS 115 Info Sys Business Concepts*	3	1 st year - spring	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098	
SEC 110 Security Concepts*	3	1 st year - spring	Pre: CTI 120	
ENG 111 Writing and Inquiry	3	1 st year - summer	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122	
MAT 143 Quantitative Literacy	3	1 st year - summer	Pre: DMA 010 – 050, DRE 098 Co: ACA 122	
CTS 155 Tech Support Functions*	3	2 nd year - fall	Pre: CTI 120, DMA 010-040 or MAT 070, DRE 097 Co: DRE 098	
NOS 120 Linux/UNIX Single User	3	2 nd year - fall	Pre: CTS 120	
NOS 230 Windows Administration I	3	2 nd year - fall	Pre: NOS 130	
PMT 110 Intro to Project Mgmt	3	2 nd year - fall	None	
COM 231 Public Speaking or	3	2 nd year - spring	Pre: DRE 098 or ENG 090 and RED 090	
ENG 112 Writing/Research in the Disciplines	3		Pre: ENG 111	

D. Information Technology: IT Support (A25590B) Course Requirements 65 credit hours: Complete Section I (as required), Section II, A, B, C, and D.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
DBA 110 Database Concepts	3	2 nd year - spring	Pre: CIS 110, CIS 111, CTI 110, or OST 136		
CTS 289 System Support Project*	3	2 nd year - spring	Pre: CTI 110, CTI 120, CTS 115 and permission of IT lead instructor		

Required Subject Area:

IT Tech Support Electives (Select 4 credit hours from the following courses)								
ACC 115, ACC 120, BUS 110, BUS 115,	BUS 125, BUS 137, BUS 139, BUS 230, CH	II 111, CIS 115, CSC 151, CSC 153, CTS 130), DBA 120, ECO 251, ECO 252, HBI					
110, HMT 110, MKT 120, MKT 221, MH	KT 233, OST 137, PMT 210, PMT 215, SPA	111, SPA 120, WEB 140, WEB 141, WEB	250.					
Note: Only 3 SHC of SPA are allowed t	owards the Information Technology deg	ree.						
Course	Course Recommended Semester		Semester Completed/Grade					
	any							
Course Recommended Semester		Semester Registered/Planned	Semester Completed/Grade					
	any							

Electives: (All degree seeking students must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).							
Courses offered at RCC: ART 111, ART 131, DRA 111, ENG 131, ENG 241, ENG 262, ENG 272, MUS 110, PHI 240, REL 211, REL 212, SPA 211							
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	1 st year - summer						

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)												
Courses offered at RCC:	Courses offered at RCC: ANT 220, HIS 121, HIS 131, HIS 132, HIS 236, PSY 150, PSY 241, SOC 210, SOC 213											
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade									
	1 st year - summer											

NOTES: *All courses must be completed with a grade of "C" or better.

******See course catalog for prerequisite and/or corequisite requirements.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

SOFTWARE AND WEB DEVELOPMENT (A25590C) COURSE REQUIREMENTS

							Work/	
					Class	Lab	Clinica	lCredit
А.				ion Courses				
	1.	Requi						
		ENG		Writing and Inquiry	3	0	0	3
		COM	231	Public Speaking	3	0	0	3
		or						
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
		MAT	143	Quantitative Literacy	2	2	0	3
				Humanities/Fine Arts Elective*	3	0	0	3
				Social/Behavioral Sciences Elective*	3	0	0	3
В.	Μ	ajor Co	urses					
	1.	Core C	Courses					
		To rec	eive a d	degree, diploma or certificate from RCC, a	a student	must h	ave a gr	ade of "C"
		or bett	ter in a	ll core courses for the program of study.				
		CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
		CTI	120	Network & Security Foundation	2	2	0	3
		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
		CTS	289	System Support Project	1	4	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
		NET	125	Introduction to Networks	1	4	0	3
		NOS	120	Linux/UNIX Single User	2	2	0	3
		SEC	110	Security Concepts	2	2	0	3
		WEB	140	Web Development Tools	2	2	0	3
		WEB	141	Mobile Interface Design	2	2	0	3
		WEB	250	Database Driven Websites	2	2	0	3
				IT Major Elective**	Varies	Varies	0	4
C.	01			Courses				
		ACA	122	College Transfer Success	0	2	0	1
				Total Credit Hours			65	

*Approved Electives are listed on the page before the Course Descriptions.

**Approved 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:

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

DUC	115	Dusiness I and I	2	0	0	2
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
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
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	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	$\overline{0}$	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
5171	140	Spuillon for the Workpluce	5	U	0	5

SEMESTER SCHEDULE SOFTWARE AND WEB DEVELOPMENT (A25590C)

			Class	Lab	Work/ Clinical	Credit
		First Year — Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
CIS	115	Introduction to Programming Logic	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
			8	12	0	13
		First Year — Spring Semeste	r			
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	2	0	3

			8	9	0	12
		First Year — Summer Seme	ester			
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 Semes		_		
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
			11	9	0	15
		Second Year — Spring Sem	ester	-		
CTS	289	System Support Project	1	4	0	3
SEC	110	Security Concepts	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3
		IT Major Elective**	Varies	Varies	0	4
			Varies	Varies	0	13
		Total Credit Hours			65	

*Approved Electives are listed on the page before the Course Descriptions.

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

				Work/	
		Class	Lab	Clinical	Credit
122	College Transfer Success	0	2	0	1
115	Introduction to Programming Logic	2	3	0	3
231	Public Speaking	3	0	0	3
112	Writing/Research in the Disciplines	3	0	0	3
151	Java Programming	2	3	0	3
153	C# Programming	2	3	0	3
110	Web, Pgm, & DB Foundation	2	2	0	3
120	Network & Security Foundation	2	2	0	3
115	Info Sys Business Concepts	3	0	0	3
	 115 231 112 151 153 110 120 	 115 Introduction to Programming Logic 231 Public Speaking 112 Writing/Research in the Disciplines 151 Java Programming 153 C# Programming 110 Web, Pgm, & DB Foundation 120 Network & Security Foundation 	122College Transfer Success0115Introduction to Programming Logic2231Public Speaking3112Writing/Research in the Disciplines3151Java Programming2153C# Programming2110Web, Pgm, & DB Foundation2120Network & Security Foundation2	122College Transfer Success02115Introduction to Programming Logic23231Public Speaking30112Writing/Research in the Disciplines30151Java Programming23153C# Programming23110Web, Pgm, & DB Foundation22120Network & Security Foundation22	122College Transfer Success020115Introduction to Programming Logic230231Public Speaking300112Writing/Research in the Disciplines300151Java Programming230153C# Programming230110Web, Pgm, & DB Foundation220120Network & Security Foundation220

CTS	120	Hardware/Software Support	2	3	0	3
DBA	120	Database Programming I	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
WEB	140	Web Development Tools	2	2	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3
		Total Credit Hours			46	

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

			Class	Lab (Clinical	Credit
		First Year — Fall Semester				
CIS	115	Introduction to Programming Logic	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
			4	5	0	6
		First Year — Spring Semester				
WEB	140	Web Development Tools	2	2	0	3
			2	2	0	3
		Second Year — Fall Semester				
DBA	120	Database Programming I	2	2	0	3
WEB	141	Mobile Interface Design	2	2	0	3
			4	4	0	6
		Second Year — Spring Semeste				
WEB	250	Database Driven Websites	2	2	0	3
			2	2	0	3
		Total Credit Hours			18	

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE **INFORMATION TECHNOLOGY: SOFTWARE AND WEB DEVELOPMENT (A25590C)** with WEB DEVELOPMENT SPECIALIST (C25590C1)

Student Name: ______ ID #: _____ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

Α. Information Technology: Web Development Specialist (Certificate) (C25590C1) Course Requirements 18 credit hours: Complete Section I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
CIS 115 Introduction to Programming and Logic	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
CTI 110 Web, Pgm, & DB Foundation*	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
WEB 140 Web Development Tools	3	1 st year - spring	Pre: CTI 110		
DBA 120 Database Programming I	3	2 nd year - fall	Pre: CTI 110		
WEB 141 Mobile Interface Design	3	2 nd year - fall	Pre: CTI 110		
WEB 250 Database Driven Websites	3	2 nd year - spring	Pre: CTI 110 Co: WEB 140 and DBA 110 or DBA 120		

B. Information Technology: Software and Web Development (Diploma) (D25590C) Course Requirements 46 credit hours: Complete Section I (as required), Section II, A, and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year - fall	None		
CTI 120 Network & Sec Foundation*	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
CTS 120 Hardware/Software Support*	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
CSC 153 C# Programming*	3	1 st year - spring	Pre: CIS 115		
CTS 115 Info Sys Business Concepts*	3	1 st year - spring	Pre: DMA 010-040		

			or MAT 070, DRE 097	
			Co: DRE 098	
NET 125 Introduction to Networks	3	1 st year - spring	Pre: DMA 010-040	
NET 125 Introduction to Networks	5	T. Agai - shung	or MAT 070, DRE 097	
			Pre: DRE 098	
ENG 111 Writing and Inquiry	3	1 st year - summer	or ENG 090 and RED 090	
			Co: ACA 122	
MAT 143 Quantitative Literacy	3	1 st year - summer	Pre: DMA 010-050, DRE 098	
MAT 143 Quantitative Literacy			Co: ACA 122	
COM 231 Public Speaking	3		Pre: DRE 098	
or		2 nd year - fall	or ENG 090 and RED 090	
ENG 112 Writing/Research in the Disciplines	3		Pre: ENG 111	
CSC 151 Java Programming*	3	2 nd year - fall	Pre: CIS 115	
DBA 120 Database Programming I*	3	2 nd year - fall	Pre: CTI 110	
NOS 120 Linux/UNIX Single User	3	2 nd year - fall	Pre: CTS 120	
SEC 110 Security Concepts	3	1 st year - spring	Pre: CTI 120	

C. Information Technology: Software and Web Development (A25590C) Course Requirements 65 credit hours: Complete Section I (as required), Section II, A, B, and C.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
CTS 289 System Support Project*	3	2 nd year - spring	Pre: CTI 110, CTI 120, CTS 115 and permission of IT lead instructor		

Required Subject Area:

IT Software and Web Development Electives (Select 4 credit hours from the following courses) ACC 115, ACC 120, BUS 110, BUS 115, BUS 125, BUS 137, BUS 139, BUS 230, CHI 111, CIS 110, CIS 111, CTS 130, CTS 155, DBA 110, ECO 251, ECO 252, HBI 110, HMT 110, MKT 120, MKT 221, MKT 233, NOS 230, OST 136, OST 137, PMT 110, PMT 210, PMT 215, SEC 160, SPA 111, SPA 120. Note: Only 3 SHC of SPA are allowed towards the Information Technology degree. Recommended Semester Semester Registered/Planned Course Semester Completed/Grade

	any		
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	any		

Electives: (All degree seeking students must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses									
only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).									
Courses offered at RCC:	Courses offered at RCC:								
ART 111, ART 131, DRA 1	ART 111, ART 131, DRA 111, ENG 131, ENG 241, ENG 262, ENG 272, MUS 110, PHI 240, REL 211, REL 212, SPA 211								
Course	Recommended Semester Semester Registered/Planned Semester Completed/Grade								
	1 st year - summer								

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY,									
and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)									
Courses offered at RCC:	Courses offered at RCC:								
ANT 220, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, PSY 150, PSY 241, SOC 210, SOC 213									
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade						

1st year - summer

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name: ____

_____ Student Signature: _____ Date: _____ Date: _____

Advisor Name:

Advisor Signature: _____

Date:

Revised August 3, 2017

SEMESTER SCHEDULE COMPUTER PROGRAMMING SPECIALIST (CERTIFICATE) (C25590C2)

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

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE INFORMATION TECHNOLOGY: SOFTWARE AND WEB DEVELOPMENT (A25590C) with COMPUTER PROGRAMMING SPECIALIST (C25590C2)

Student Name: ______ ID #: _____ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Information Technology: Computer Programming Specialist (Certificate) (C25590C2) Course Requirements 18 credit hours: Complete Section I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
			Pre: DMA 010-040		
CIS 115 Introduction to Programming and Logic	3	1 st year - fall	or MAT 070, DRE 097		
			Co: DRE 098		
			Pre: DMA 010-040		
CTI 110 Web, Pgm, & DB Foundation*	3	1 st year - fall	or MAT 070, DRE 097		
			Co: DRE 098		
			Pre: DMA 010-040		
CTI 120 Network & Sec Foundation*	3	1 st year - fall	or MAT 070, DRE 097		
			Co: DRE 098		
CSC 153 C# Programming*	3	1 st year - spring	Pre: CIS 115		
WEB 140 Web Development Tools	3	1 st year - spring	Pre: CTI 110		
CSC 151 Java Programming*	3	2 nd year - fall	Pre: CIS 115		

B. Information Technology: Software and Web Development (Diploma) (D25590C) Course Requirements 46 credit hours: Complete Section I (as required), Section II, A, and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year - fall	None		
CTS 120 Hardware/Software Support*	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
CTS 115 Info Sys Business Concepts*	3	1 st year - spring	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
NET 125 Introduction to Networks	3	1 st year - spring	Pre: DMA 010-040		

			or MAT 070, DRE 097
ENG 111 Writing and Inquiry	3	1 st year - summer	Pre: DRE 098 or ENG 090 and RED 090 000 Co: ACA 122
MAT 143 Quantitative Literacy	3	1 st year - summer	Pre: DMA 010 – 050, DRE 098 Co: ACA 122
COM 231 Public Speaking or	3	2 nd year - fall	Pre: DRE 098 or ENG 090 and RED 090
ENG 112 Writing/Research in the Disciplines	3		Pre: ENG 111
NOS 120 Linux/UNIX Single User	3	2 nd year - fall	Pre: CTS 120
DBA 120 Database Programming I*	3	2 nd year - fall	Pre: CTI 110
WEB 141 Mobile Interface Design	3	2 nd year - fall	Pre: CTI 110
WEB 250 Database Driven Websites	3	2 nd year - spring	Pre: CTI 110 Co: WEB 140 and DBA 110 or DBA 120

C. Information Technology: Software and Web Development (A25590C) Course Requirements 65 credit hours: Complete Section I (as required), Section II, A, B, and C.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
CTS 289 System Support Project*	3	2 nd year - spring	Pre: CTI 110, CTI 120, CTS 115 and permission of IT lead instructor		
SEC 110 Security Concepts	3	2 nd year - spring	Pre: CTI 120		

Required Subject Area:

IT Software and Web Development Electives (Select 4 credit hours from the following courses)							
ACC 115, ACC 120, BUS 110, BUS 115, BUS 125, BUS 137, BUS 139, BUS 230, CHI 111, CIS 110, CIS 111, CTS 130, CTS 155, DBA 110, ECO 251, ECO 252, HBI 110, HMT 110, MKT 120, MKT 221, MKT 233, NOS 230, OST 136, OST 137, PMT 110, PMT 210, PMT 215, SEC 160, SPA 111, SPA 120. Note: Only 3 SHC of SPA are allowed towards the Information Technology degree.							
			Semester Completed/Grade				
	any						
any							

Electives: (All degree seeking students must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses									
only), HUM, MUS, PHI,	only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).								
Courses offered at RCC:									
ART 111, ART 131, DRA	111, ENG 131, ENG 241, ENG 262, ENG 272,	MUS 110, PHI 240, REL 211, REL 212, SPA 211							
Course	Course Recommended Semester Semester Registered/Planned Semester Completed/Grade								
	1 st year - summer								
Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY,									
and SOC) +Some busine	ss and accounting curricula require econor	nics and do not accept ECO courses as fulfillmen	t of this elective requirement.						

30C) 130me Courses offered at RCC:

ANT 220, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, PSY 150, PSY 241, SOC 210, SOC 213

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	1 st year - summer		

NOTES: *All courses must be completed with a grade of "C" or better.

******See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:

_____ Date: ____ Date: _____

Advisor Name:

Advisor Signature: _____

_____ Date: _____

Revised August 3, 2017

2017-2018

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

			/		Work/	
			Class	Lab (Clinical	Credit
		First Year — Fall Semester				
CIS	115	Introduction to Programming Logic	2	3	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Security Foundation	2	2	0	3
			6	7	0	9
		First Year — Spring Semester	-	/	0	7
WEB	140	Web Development Tools	2	2	0	3
WLD	140	web Development 10013				
			2	2	0	3
		Second Year — Fall Semester	•			
CSC	151	Java Programming	2	3	0	3
WEB	141	Mobile Interface Design	2	2	0	3
			4	5	0	6
		Total Credit Hours			18	

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE INFORMATION TECHNOLOGY: SOFTWARE AND WEB DEVELOPMENT (A25590C) with MOBILE APPLICATIONS DEVELOPMENT SPECIALIST (C25590C3)

Student Name: _____

_____ Date of Enrollment: _____

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Information Technology: Mobile Applications Development Specialist (Certificate) (C25590C3) Course Requirements 18 credit hours: Complete Section I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
CIS 115 Introduction to Programming and Logic	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
CTI 110 Web, Pgm, & DB Foundation*	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
CTI 120 Network & Sec Foundation*	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
WEB 140 Web Development Tools	3	1 st year - spring	Pre: CTI 110		
CSC 151 Java Programming*	3	2 nd year - fall	Pre: CIS 115		
WEB 141 Mobile Interface Design	3	2 nd year - fall	Pre: CTI 110		

B. Information Technology: Software and Web Development (Diploma) (D25590C) Course Requirements 46 credit hours: Complete Section I (as required), Section II, A, and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year - fall	None		
CTS 120 Hardware/Software Support*	3	1 st year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
CSC 153 C# Programming*	3	1 st year - spring	Pre: CIS 115		
CTS 115 Info Sys Business Concepts*	3	1 st year - spring	Pre: DMA 010-040 or MAT 070, DRE 097 Co: DRE 098		
ENG 111 Writing and Inquiry	3	1 st year - summer	Pre: DRE 098 or ENG 090 and RED 090		

			Co: ACA 122	
MAT 143 Quantitative Literacy	3	1 st year - summer	Pre: DMA 010 – 050, DRE 098 Co: ACA 122	
COM 231 Public Speaking or	3	2 nd year - fall	Pre: DRE 098 or ENG 090 and RED 090	
ENG 112 Writing/Research in the Disciplines	3		Pre: ENG 111	
NOS 120 Linux/UNIX Single User	3	2 nd year - fall	Pre: CTS 120	
DBA 120 Database Programming I*	3	2 nd year - fall	Pre: CTI 110	
WEB 250 Database Driven Websites	3	2 nd year - spring	Pre: CTI 110 Co: WEB 140 and DBA 110 or DBA 120	

C. Information Technology: Software and Web Development (A25590C) Course Requirements 65 credit hours: Complete Section I (as required), Section II, A, B, and C.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
		act i	Pre: DMA 010-040		
NET 125 Introduction to Networks	3	1 st year - spring	or MAT 070, DRE 097		
			Pre: CTI 110, CTI 120, CTS 115		
CTS 289 System Support Project*	3	2 nd year - spring	and permission of IT lead		
			instructor		
SEC 110 Security Concepts	3	2 nd year - spring	Pre: CTI 120		

Required Subject Area:

IT Software and Web Development Electives (Select 4 credit hours from the following courses)

ACC 115, ACC 120, BUS 110, BUS 115, BUS 125, BUS 137, BUS 139, BUS 230, CHI 111, CIS 110, CIS 111, CTS 130, CTS 155, DBA 110, ECO 251, ECO 252, HBI 110, HMT 110, MKT 120, MKT 221, MKT 233, NOS 230, OST 136, OST 137, PMT 110, PMT 210, PMT 215, SEC 160, SPA 111, SPA 120. Note: Only 3 SHC of SPA are allowed towards the Information Technology degree.

Course	Course Recommended Semester		Semester Completed/Grade
	any		
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	any		

Electives: (All degree seeking students must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).					
Courses offered at RCC: ART 111, ART 131, DRA 111, ENG 131, ENG 241, ENG 262, ENG 272, MUS 110, PHI 240, REL 211, REL 212, SPA 211					
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade		
	1 st year - summer				

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.) Courses offered at RCC: ANT 220, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, PSY 150, PSY 241, SOC 210, SOC 213 Semester Registered / Planned Somester Completed /Crade

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	1 st year - summer						

*All courses must be completed with a grade of "C" or better. NOTES:

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:

_____ Student Signature: _____

Date: _ Date: ____

Advisor Name: ____

Revised August 3, 2017

___ Advisor Signature: _____

2017-2018

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

					VV UI K /	
			Class	Lab	Clinical	Credit
		First Year — Fall Semester				
CTI	120	Network & Security Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
					—	
			4	5	0	6
		First Year — Spring Semeste	r			
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
			5	9	0	9
		Second Year — Fall Semeste	-	,	0	-
NOS	230	Windows Administration I	2	2	0	3
			2	2	0	3
		Total Credit Hours			18	

SEMESTER SCHEDULE NETWORK+ PREP (CERTIFICATE) (C25590D2)

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

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

Program Completion Guide **ASSOCIATE IN APPLIED SCIENCE - INFORMATION TECHNOLOGY NETWORK MANAGEMENT (C25590D1)** NETWORK+ PREP (C25590D2)

Student Name: _____

_____ ID #: _____ Date of Enrollment: _____

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

Information Technology: Network+ Prep (Certificate) (C25590D2) Course Requirements 12 credit hours: Complete Section I (as Α. required) and Section II, A. Note: Network+ Prep (C25590D2) is a subset of the Network Management (C25590D1) certificate. Students using financial aid should enroll in Network Management (C25590D1).

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
			Pre: DMA 010-040		
CTI 120 Network & Sec Foundation	3	1 st year - fall	or MAT 070, DRE 097		
			Co: DRE 098		
			Pre: DMA 010-040		
CTS 120 Hardware/Software Support	3	1 st year - fall	or MAT 070, DRE 097		
			Co: DRE 098		
NET 125 Introduction to Notworks	2	1 st voor coring	Pre: DMA 010-040		
NET 125 Introduction to Networks	3	1 st year - spring	or MAT 070, DRE 097		
NOS 130 Windows Single User	3	1 st year - spring	Pre: CTS 120		

B. Information Technology: Network Management (Certificate) (C25590D1) Course Requirements 18 credit hours: Complete Section I (as required), Section II, A, and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
SEC 110 Security Concepts	3	1 st year - spring	Pre: CTI 120		
NOS 230 Windows Administration I	3	2 nd year - fall	Pre: NOS 130		

NOTES: *All courses must be completed with a grade of "C" or better.

******See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name: ____

_____ Student Signature: _____ Date: _____ Date: _____

Advisor Name: _____

_____ Advisor Signature: _____

__ Date: ____

Revised August 3, 2017

2017-2018

	estanse requirements			Work	,
		Class	Lab	Clinical	
A. General Edu	cation Courses	01000		011110	
1. Required C					
-	Writing and Inquiry	3	0	0	3
	Public Speaking	3	0	0	3
or		U	Ũ	Ũ	C
	Writing/Research in the Disciplines	3	0	0	3
	Quantitative Literacy	2	2	0	3
-	Humanities/Fine Arts Elective*	3	0	0	3
	Social/Behavioral Sciences Elective*	3	0	0	3
B. Major Cours		-	÷	-	-
1. Core Cours					
	a degree, diploma or certificate from RCC, a	student i	must h	ave a gr	ade of "C"
	all core courses for the program of study.			0	5
	Web, Pgm, & DB Foundation	2	2	0	3
	Network & Sec Foundation	2	2	0	3
	Info Sys Business Concepts	3	0	0	3
	Hardware/Software Support	2	3	0	3
	Database Programming I	2	2	0	3 3
	Issues and Trends in HBI	3	0	0	3
2. Required S	ubject Area				
-	a degree, diploma or certificate from RCC, a	student i	must h	ave a gr	ade of "C"
or better in				U	0
CTS 289	System Support Project	1	4	0	3
Other Majo	• • • •				
•	Tech Support Functions	2	2	0	3
	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 120	Linux/UNIX Single User	2	2	0	3
NOS 130	Windows Single User	2	2	0	3
	Windows Administration I	2	2	0	3
PMT 110	Intro to Project Mgmt	3	0	0	3
SEC 110	Security Concepts	2	2	0	3
	IT Major Elective**	2-3	0-3	0	4
C. Other Requi					
	College Transfer Success	0	2	0	1
	Total Credit Hours			68	

IT – Information Technology Support - Healthcare (A25590E) Course Requirements

*Approved Electives are listed on the page before the Course Descriptions.

**Approved 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	$\frac{2}{2}$	0	4
BUS	120	Introduction to Business	3		0	3
BUS	115	Business Law I	3	0	0	3
BUS	125	Personal Finance	3	0	0	3
BUS	123	Principles of Management	3	0	0	3
BUS	137	Entrepreneurship I	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
CHI	111	Elementary Chinese I	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
CIS	110	Basic PC Literacy	1	$\frac{2}{2}$	0	$\frac{3}{2}$
CSC	151	Java Programming	2	3	0	2 3
CSC	151	Java Programming	2	3	0	3
CSC	151	C# Programming	2	3	0	3
CTS	133	Spreadsheet	2	$\frac{3}{2}$	0	3
DBA	130	Database Concepts	$\frac{2}{2}$	23	0	3
ECO	251	Principles of Microeconomics	2 3	0	0	3
ECO	251		3	0	0	3
ELC	112	Principles of Macroeconomics	3		0	5 5
		DC/AC Electricity Medical Insurance	3 3	6		3 3
HMT	210		3 3	0	0	3 3
MKT	120	Principles of Marketing	3 3	0	0	
MKT	221	Consumer Behavior		0	0	3
	223	Customer Service	3	0	0	3
OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
PMT	210	Project Management Issues	2	2	0	3
PMT	215	Project Management Leadership	3	0	0	3
SEC	160	Security Administration I	2	2	0	3
SPA	111	Elementary Spanish I	3	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
WEB	140	Web Development Tools	2	2	0	3
WEB	141	Mobile Interface Design	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3

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

		(A23370E)	Class	Lab	Work/ Clinica	lCredit
		First Year — Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Sec Foundation	2	2	0	3
CTS	120	Hardware/Software Support	2	3	0	3
PMT	110	Intro to Project Mgmt	3	0	0	3
			9	9	0	13
		First Year — Spring Semeste	-	,	U	15
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
NOS	150	windows Shigie Oser	<u> </u>	<i>L</i>	0	5
			11	9	0	15
		First Year — Summer Semest			0	15
ENG	111	Writing and Inquiry	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
101731	175	Humanities/Fine Arts Elective*	$\frac{2}{3}$	$\frac{2}{0}$	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
		Social/Benavioral Sciences Elective			<u> </u>	
			11	2	0	12
		Second Year — Fall Semeste				
CTS	155	Tech Support Functions	2	2	0	3
DBA	120	Database Programming I	2	2	0	3
HBI	110	Issues and Trends in HBI	3	0	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	230	Windows Administration	2	2	0	3
			11	8	0	15
		Second Year — Spring Semest		_	-	-
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	
SEC	110	Security Concepts	2	2	0 0	3 3
		IT Major Elective**	2-3	0-3	0	4
			 8-9	 6-9	0	13

Total Credit Hours

68

*Approved Electives are listed on the page before the Course Descriptions.

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						
ENG	112	Writing/Research in the Disciplines	3	0	0	3
CTI	110	Web, Pgm, & DB Foundation	2	2	0	3
CTI	120	Network & Sec Foundation	2	2	0	3
CTS	115	Info Sys Business Concepts	3	0	0	3
CTS	120	Hardware/Software Support	2	3	0	3
CTS	155	Tech Support Functions	2	2	0	3
CTS	220	Adv Hard/Software Support	2	3	0	3
DBA	120	Database Programming I	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
HBI	110	Issues and Trends in HBI	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
NET	125	Introduction to Networks	1	4	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
NOS	130	Windows Single User	2	2	0	3
SEC	110	Security Concepts	2	2	0	3

Total Credit Hours

46

Program Completion Guide ASSOCIATE IN APPLIED SCIENCE **INFORMATION TECHNOLOGY: IT SUPPORT-HEALTHCARE (A25590E)**

Student Name: _____

_____ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Information Technology: IT Support-Healthcare (Diploma) (D25590E) Course Requirements 46 credit hours: Complete Section I (as required), and Section II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year - fall	None		
COM 231 Public Speaking or	3	2 nd year - spring	Pre: DRE 098		
ENG 112 Writing/Research in the Disciplines			Pre: ENG 111		
CTI 110 Web, Pgm, & DB Foundation*	3	1 st year - fall	Pre: DMA 010-040, DRE 097 Co: DRE 098		
CTI 120 Network & Sec Foundation*	3	1 st year - fall	Pre: DMA 010-040, DRE 097 Co: DRE 098		
CTS 115 Info Sys Business Concepts*	3	1 st year - spring	Pre: DMA 010-040, DRE 097 Co: DRE 098		
CTS 120 Hardware/Software Support*	3	1 st year - fall	Pre: DMA 010-040, DRE 097 Co: DRE 098		
CTS 155 Tech Support Functions*	3	2 nd year - fall	Pre: CTI 120, DMA 010-040, DRE 097 Co: DRE 098		
CTS 220 Adv Hard/Software Support*	3	1 st year - spring	Pre: CTS 120		
DBA 120 Database Programming	3	2 nd year - fall	Pre: CTI 110		
ENG 111 Writing and Inquiry	3	1 st year - summer	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
HBI 110 Issues and Trends in HBI	3	2 nd year - fall	None		
MAT 143 Quantitative Literacy	3	1 st year - summer	Pre: DMA 010 – 050, DRE 098 Co: ACA 122		
NET 125 Introduction to Networks	3	1 st year - spring	Pre: DMA 010-040, DRE 097 Co: DRE 098		
NOS 120 Linux/UNIX Single User	3	2 nd year - fall	Pre: CTS 120		
NOS 130 Windows Single User	3	1 st year - spring	Pre: CTS 120		
SEC 110 Security Concepts*	3	2 nd year - spring	Pre: CTI 120		

B. Information Technology: IT Support-Healthcare (A25590E) Course Requirements 68 credit hours: Complete Section I (as required), Section II, A, and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
PMT 110 Intro to Project Mgmt	3	1 st year - fall	None		
HMT 110 Intro to Healthcare Management	3	1 st year - spring	None		
NOS 230 Windows Administration I	3	2 nd year - fall	Pre: NOS 130		
CTS 289 System Support Project*	3	2 nd year - spring	Pre: CTI 110, CTI 120, CTS 115 and permission of IT lead instructor		

Required Subject Area:

IT Tech Support Electives (Select 4 credit hours from the following courses)								
ACC 115, ACC 120, BUS 110, BUS 115, BUS 125, BUS 137, BUS 139, BUS 230, CHI 111, CIS 110, CIS 111, CIS 115, CSC 151, CSC 153, CTS 130, DBA 110, ECO 251,								
ECO 252, ELC 112, HBI 110, HMT 210, MKT 120, MKT 221, MKT 233, OST 136, OST 137, PMT 210, PMT 215, SEC 160, SPA 111, SPA 120, WEB 140, WEB 141,								
WEB 250.								
Note: Only 3 SHC of SPA are allowed t	towards the Information Technology deg	ree.						
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade					
	2 nd year - spring							
	2 nd year - spring							

Electives: (All degree seeking students must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine	Arts Electives (3 credits)** (Courses v	with the following prefixes will satisfy this require	ement: ART, DRA, ENG (literature courses
only), HUM, MUS, PHI	, REL, and SPA (Intermediate Spanish I only)).	
Courses offered at RCC	2:		
ART 111, ART 131, DRA	111, ENG 131, ENG 241, ENG 262, ENG 272	, MUS 110, PHI 240, REL 211, REL 212, SPA 211	
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	1 st year - summer		
Social/Behavioral	Sciences Electives (3 credits)** (Co	urses with the following prefixes will satisfy this	requirement: ANT. ECO+. GEO. HIS. POL. PSY.

Social/Benavioral Sciences Electives (3 Credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.) Courses offered at RCC: ANT 220, HIS 121, HIS 131, HIS 132, HIS 236, PSY 150, PSY 241, SOC 210, SOC 213 Course Recommended Semester Semester Registered /Planned Semester Completed /Grade

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	1 st year - summer		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

MECHANICAL ENGINEERING TECHNICIAN Mechanical Engineering Technology (A40320)

ENGINEERING AND TECHNOLOGY PATHWAYS

These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians.

PROGRAM DESCRIPTION

A course of study that prepares the students to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, computer applications, critical thinking, planning and problem solving, and oral and written communications. Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

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.

				Work/				
			Class	Lab	Clinical	Credit		
A.	General I	Education Courses						
	1. Requir	red Courses						
	ENG	111 Writing and Inquiry	3	0	0	3		
	ENG	112 Writing/Research in the Disciplines	3	0	0	3		
	MAT	171 Precalculus Algebra	3	2	0	4		
		Humanities/Fine Arts Elective*	3	0	0	3		
		Social/Behavioral Sciences Elective*	3	0	0	3		
В.	Major Co	Durses						
	1. Core C	Courses						
	To receive a degree, diploma or certificate from RCC, a student must have a grade of "C"							
	or bett	ter in all core courses for the program of study	•		0	Ū.		
	DFT	151 CAD I	2	3	0	3		
	DFT	153 CAD III	2	3	0	3		

	EGR	250 Statics/Strengths of Materials	4	3	0	5
		110 Hydraulics/Pneumatics I	2	3	0	3
		161 Manufacturing Process I	3	0	0	3
		180 Engineering Materials	2	3	0	3
	PHY	151 College Physics I	3	2	0	4
2.	Other	Major Courses				
	DFT	110 Basic Drafting	1	2	0	2
	DFT	115 Architectural Drafting	1	2	0	2
	DFT	152 CAD II	2	3	0	3
	ISC	132 Manufacturing Quality Control	2	3	0	3
	MAT	172 Precalculus Trigonometry	3	2	0	4
	MAT	271 Calculus I	3	2	0	4
	MEC	110 Introduction to CAD/CAM	1	2	0	2
	MEC	270 Machine Design	3	3	0	4
	MEC	271 Machine Design Project	0	3	0	1
	PLA	120 Injection Molding	2	3	0	3
C. Ot	her Re	quired Courses				
	ACA	122 College Transfer Success	0	2	0	1
		Total Credit Hours			69	

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE MECHANICAL ENGINEERING TECHNOLOGY (DAY)

				Work/		
			Class	Lab	Lab Clinical Cred	
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
DFT	110	Basic Drafting	1	2	0	2
DFT	151	CAD I	2	3	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MEC	161	Manufacturing Process I	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
			12	9	0	16
		First Year – Spring Semester	•			
DFT	115	Architectural Drafting	1	2	0	2
DFT	152	CAD II	2	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MEC	180	Engineering Materials	2	3	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			14	10	0	18

DFT	153	CAD III	2	3	0	3		
EGR	250	Statics & Strength of Materials	4	3	0	5		
MAT	271	Calculus I	3	2	0	4		
ISC	132	Manufacturing Quality Control	2	2	0	3		
PHY	151	College Physics I	3	2	0	4		
PLA	120	Injection Molding	2	3	0	3		
			16	15	0	22		
	Second Year – Spring Semester							
HYD	110	Hydraulics/Pneumatics I	2	3	0	3		
MEC	110	Introduction to CAD/CAM	1	2	0	2		
MEC	270	Machine Design	3	3	0	4		
MEC	271	Machine Design Project	0	3	0	1		
		Social/Behavioral Sciences Elective*	3	0	0	3		
					—	—		
			9	11	0	13		
	Total Credit Hours				69			

Total Credit Hours *Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE

MECHANICAL ENGINEERING TECHNOLOGY (DIPLOMA) (D40320) (DAY) Work/

			Class	Lab Clinical Cred		
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
DFT	110	Basic Drafting	1	2	0	2
DFT	151	CAD I	2	3	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MEC	161	Manufacturing Processes I	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
			12	9	0	16
		First Year – Spring Semester	•			
DFT	115	Architectural Drafting	1	2	0	2
DFT	152	CAD II	2	3	0	3
MAT	172	Precalculus Trigonometry	3	2	0	4
MEC	180	Engineering Materials	2	3	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			11	10	0	15
		Second Year – Fall Semester	,			
DFT	153	CAD III	2	3	0	3

		Manufacturing Quality Control College Physics I	2 3	3 2	0 0	3 4
			—			
			7	8	0	10
Total Credit Hours41*Approved Electives are listed on the page before the Course Descriptions.						

SEMESTER SCHEDULE

SEMESTER SCHEDULE MET: COMPUTER-AIDED DRAFTING (CERTIFICATE) (C40320) Drafting & Design

				Work/			
			Class	Lab Clinical Credit			
DFT	110	Basic Drafting	1	2	0	2	
DFT	115	Architectural Drafting I	1	2	0	2	
DFT	151	CAD I	2	3	0	3	
DFT	152	CAD II	2	3	0	3	
DFT	153	CAD III	2	3	0	3	
			—	—			
			8	13	0	13	
	-				10		

Total Credit Hours

13

Program Completion Guide

ASSOCIATE IN APPLIED SCIENCE - MECHANICAL ENGINEERING TECHNOLOGY (A40320) **Mechanical Engineering Technician**

Student Name: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Mechanical Engineering Technology/Computer-Aided Drafting Certificate (C40320) Course Requirements 13 credit hours: Complete Section I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
DFT 110 Basic Drafting	2	1 st year - fall	None		
DFT 151 CAD I*	3	1 st year - fall	Pre: DMA 010-030 or MAT 060, DRE 097 or RED 080		
DFT 152 CAD II*	3	1 st year - spring	Pre: DFT 151		
DFT 115 Architectural Drawing	2	1 st year – spring	Pre: DFT 151		
DFT 153 CAD III*	3	2 nd year – fall	Pre: DFT 151		

Mechanical Engineering Technology Diploma (D40320) Course Requirements 41 credit hours: Complete Sections I (as в. required) and Section II, A, and B. (Also must take one Humanities/Fine Arts elective.)

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	1 st year - fall	None		
MAT 171 Precalculus Algebra	4	1 st year - fall	Pre: DMA 010-080 or MAT 080		
MEC 161 Manufacturing Processes I*	3	1 st year - fall	None		
ENG 111 Writing and Inquiry	3	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
ISC 132 Manufacturing Quality Control	3	2 nd year – fall	None		
MAT 172 Precalculus Trigonometry	4	1 st year - spring	Pre: MAT 171		
PHY 151 College Physics I	4	2 nd year – fall	Pre: DRE 098 or RED 090, MAT 171		
MEC 180 Engineering Materials	3	2 nd year-Spring	None		

C. Mechanical Engineering Technology Associate in Applied Science Degree Course Requirements 69 credit hours: Complete Section I (as required) and Section II, A, B, and C.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ENG 112 Writing/Research in the Disciplines	3	1 st year - spring	Pre: ENG 111		
MAT 271 Calculus I	4	2 nd year - fall	Pre: MAT 172		
EGR 250 Statics/Strength of Materials*	5	2 nd year - fall	Pre: MAT 172		
PLA 120 Injection Molding	3	2 nd year - fall	Pre: DMA 010-030 or MAT 060, DRE 097 or RED 080		
HYD 110 Hydraulics/Pneumatics I	3	2 nd year – spring	Pre: DMA 010-030 or MAT 060		
MEC 110 Introduction to CAD/CAM	2	2 nd year – spring	Pre: DMA 010-060 or MAT 070, DRE 097 Co: DRE 098		
MEC 270 Machine Design	4	2 nd year – spring	Pre: DFT 151, EGR 250, MEC 180		
MEC 271 Machine Design Project	1	2 nd year – spring	Pre: DFT 151, EGR 250, MEC 180 Co: MEC 270		

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).

Courses offered at RCC:

ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211

Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade	
	1 st year - spring			

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)									
Courses offered at RCC: ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213									
Course Recommended Semester		Semester Registered/Planned	Semester Completed/Grade						
	2 nd year - spring								

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	_ Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:
Student Name:	_ Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:
Student Name:	_ Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:
Student Name:	_ Student Signature:	_ Date:
Advisor Name:	_ Advisor Signature:	_ Date:

AUTOMATION & ROBOTICS ENGINEERING TECHNICIAN Mechatronics Engineering Technology (A40350)

ENGINEERING AND TECHNOLOGY PATHWAYS

These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians.

PROGRAM DESCRIPTION

A course of study that prepares the students to use basic engineering principles and technical skills in developing and testing automated, servo-mechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.

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.

	-			Work/			
				Class	Lab	Clinical	Credit
А.	General E	Educa	tion Courses				
	1. Requir	red Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
	ENG	112	Writing/Research in the Disciplines	3	0	0	3
	MAT	171	Precalculus Algebra	3	2	0	4
			Humanities/Fine Arts Elective*	3	0	0	3
			Social/Behavioral Sciences Elective*	3	0	0	3
В.	Major C	ourse	s				
	1. Core C	Course	28				
	To rec	eive a	degree, diploma or certificate from RCC,	a student	must k	nave a gra	ide of "C"
	or bett	er in d	all core courses for the program of study.				
	ATR	112	Intro to Automation	2	3	0	3
	CIS	110	Introduction to Computers	2	2	0	3
	DFT	151	CAD I	2	3	0	3
	ELC	112	DC/AC Electricity	3	6	0	5

or						
ELC	131	Circuit Analysis I	3	3	0	4
ELC	117	Motors and Controls	2	6	0	4
or						
ELN	231	Industrial Controls	2	3	0	3
ELC	213	Instrumentation	3	2	0	4
ELN	260	Prog Logic Controllers	3	3	0	4
HYD	110	Hyrdraulics/Pneumatics I	2	3	0	3
ISC	112	Industrial Safety	2	0	0	2
MEC	130	Mechanisms	2	2	0	3
PHY	151	College Physics I	3	2	0	4
2. Other	Majoi	Courses				
ELN	133	Digital Electronics	3	3	0	4
ISC	132	Manufacturing Quality Control	2	3	0	3
MAT	172	Precalculus Trigonometry	3	2	0	4
MEC	110	Intro to CAD/CAM	1	2	0	2
MEC	180	Engineering Materials	2	3	0	3
MNT	240	Industrial Equip Troubleshooting	1	3	0	2
Other R	equir	ed Hours				
ACA	122	College Transfer Success	0	2	0	1
		Total Credit Hours			71-73	

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE MECHATRONICS ENGINEERING TECHNOLOGY

					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
ELC	112	DC/AC Electricity	3	6	0	5
or						
ELC	131	Circuit Analysis I	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
				—		
			11	9-12	0	15-16
		First Year – Spring Semester				
ELC	117	Motors and Controls	2	6	0	4
or						
ELN	231	Industrial Controls	2	3	0	3
ELN	133	Digital Electronics	3	3	0	4
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
ISC	112	Industrial Safety	2	0	0	2

C.

MAT	172	Precalculus Trigonometry	3	2	0	4
			12	11-14	0	 16-17
		First Year – Summer Semester	•			
ENG	112	Writing/Research in the Disciplines	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			9	0	0	9
		Second Year – Fall Semester				
DFT	151	CAD I	2	3	0	3
ELN	260	Prog Logic Controllers	3	3	0	4
ISC	132	Manufacturing Quality Control	2	3	0	3
MEC	130	Mechanisms	2	2	0	3
PHY	151	College Physics I	3	2	0	4
			12	12	0	17
		Second Year – Spring Semester	r			
ATR	112	Intro to Automation	2	3	0	3
ELC	213	Instrumentation	3	2	0	4
MEC	110	Intro to CAD/CAM	1	2	0	2
MEC	180	Engineering Materials	2	3	0	3
MNT	240	Industrial Equip Troubleshooting	1	3	0	2
			9	13	0	14
	Total	Credit Hours			71 72	

Total Credit Hours

71-73

*Approved Electives are listed on the page before the Course Descriptions.

MECHATRONICS ENGINEERING TECHNOLOGY (CERTIFICATE) (C40350) COURSE REQUIREMENTS

			-		Work/	
			Class	Lab	Clinical	Credit
ELC	131	Circuit Analysis I	3	3	0	4
ELC	213	Instrumentation	3	2	0	4
ELN	231	Industrial Controls	2	3	0	3
ELN	260	Programmable Logic Controllers	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
			14	11	0	18
	Total	Credit Hours			18	

Program Completion Guide **ASSOCIATE IN APPLIED SCIENCE - MECHATRONICS ENGINEERING TECHNOLOGY (A40350) Automation & Robotics Engineering Technician**

Student Name: ___

_____ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DMA 060 Polynomial/Quadratic Appl (Required if taking MAT 171)	<7 on DAP	1	Pre: DMA 010-050 or MAT 060 and MAT 070		
DMA 070 Rational Express/Equation (Required if taking MAT 171)		1	Pre: DMA 010-060 or MAT 060 and MAT 070		
DMA 080 Radical Express/Equations (Required if taking MAT 171)		1	Pre: DMA 010-070 or MAT 060 and MAT 070		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

Α. Mechatronics Engineering Technology Certificate (C40350) Course Requirements 18 credit hours: Complete Section I (as required) and Section II, A.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ELC 131 Circuit Analysis I* (For degree requirements see Section B.)	4	1 st year – fall	Pre: DMA 010-050 or MAT 070 Co: DRE 096		
ELC 213 Instrumentation*	4	2 nd year – spring	None		
ELN 231 Industrial Controls* (For degree requirements see Section B.)	3	1 st year – spring	Pre: ELC 131		
ELN 260 Prog Logic Controllers*	4	2 nd year – fall	Pre: ELC 112 or ELC 131		
ENG 111 Writing and Inquiry	3	1 st year – fall	Pre: DRE 098 or ENG 090 & RED 090 Co: ACA 122		

Mechatronics Engineering Technology Associate in Applied Science Degree (A40350) Course Requirements 71-73 credit hours: Β. Complete Section I (as required) and Section II, A and B.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
CIS 110 Introduction to Computers*	3	1 st year – fall	Pre: DRE 097 Co: DRE 098		
ELC 112 DC/AC Electricity*	5		Pre: DMA 010		
or ELC 131 Circuit Analysis I*	4	1 st year – fall	Pre: DMA 010-050 or MAT 070 Co: DRE 096		
MAT 171 Precalculus Algebra	4	1 st year – fall	Pre: DMA 010-080 or MAT 080		
ELC 117 Motors and Controls* or	4	1 st year – spring	Pre: ELC 112 or ELC 131		
ELN 231 Industrial Controls*	3		Pre: ELC 131		
ELN 133 Digital Electronics	4	1 st year – spring	Pre: ELC 112 or ELC 131		
HYD 110 Hydraulics/Pneumatics I*	3	1 st year – spring	Pre: DMA 010-030 or MAT 060		

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ISC 112 Industrial Safety*	2	1 st year – spring	None	
MAT 172 Precalculus Trigonometry	4	1 st year – spring	Pre: MAT 171	
ENG 112 Writing/Research in the Disciplines	3	1 st year – summer	Pre: ENG 111	
DFT 151 CAD I*	3	2 nd year – fall	Pre: DMA 010-030 or MAT 060, DRE 097 or RED 080	
ISC 132 Manufacturing Quality Control	3	2 nd year – fall	None	
MEC 130 Mechanisms*	3	2 nd year – fall	Pre: DMA 010-020 or MAT 060	
PHY 151 College Physics I*	4	2 nd year – fall	Pre: DRE 098 or RED 090, MAT 171	
ATR 112 Intro to Automation*	3	2 nd year – spring	Pre: ELN 260	
ELC 213 Instrumentation*	4	2 nd year – spring	None	
MEC 110 Intro to CAD/CAM	2	2 nd year – spring	Pre: DMA 010-020 or MAT 060	
MEC 180 Engineering Materials	3	2 nd year – spring	None	
MNT 240 Industrial Equip Troubleshooting	2	2 nd year – spring	Pre: ELC 112 or ELC 131 Co: ELC 128 or ELN 260	

Electives: (All degree seeking students must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses					
only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).					
Courses offered at RCC:					
ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211					
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade		

1st year – summer Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT ECO+ GEO HIS POL DEV

Social/Benavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY,					
and SOC) +Some busin	ess and accounting curricula require econo	mics and do not accept ECO courses as fulfillment	nt of this elective requirement.)		
Courses offered at RCC					
ANT 220, HIS 111, HIS 1	12, HIS 131, HIS 132, PSY 150, PSY 241, SOC	210, SOC 213			
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade		
	1st year – summer				
NOTES: *All courses m	nust be completed with a grade of "C" or be	tter.			

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Work/

Medical Assisting (A45400)

The Medical Assisting curriculum prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures.

Course work includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, supervised medication administration; and ethical/legal issues associated with patient care.

Graduates of CAAHEP-accredited medical assisting programs may be eligible to sit for the American Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

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.

							VV OFK/	
					Class	Lab	Clinical	Credit
A.	Ge	eneral H	Educa	tion Courses				
	1.	Requir	red Co	ourses				
		ENG	111	Writing and Inquiry	3	0	0	3
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
		MAT	143	Quantitative Literacy	2	2	0	3
		PSY	150	General Psychology	3	0	0	3
				Humanities/Fine Arts Elective*	3	0	0	3
B.	Ma	ajor Co	ourses					
		Core C						
		To rec	eive a	degree, diploma or certificate from RCC, a	student	must h	nave a gra	ide of "C"
				all core courses for the program of study.			U	v
		BIO	163	Basic Anatomy and Physiology	4	2	0	5
		MED	110	Orientation to Medical Assisting	1	0	0	1
		MED	118	Medical Law and Ethics	2	0	0	2
		MED	121	Medical Terminology I	3	0	0	3
		MED	122	Medical Terminology II	3	0	0	3
		MED	130	Administrative Office Procedures I	1	2	0	2
		MED	131	Administrative Office Procedures II	1	2	0	2
		MED	140	Exam Room Procedures I	3	4	0	5
		MED	150	Laboratory Procedures I	3	4	0	5
		MED	260	MED Clinical Practicum	0	0	15	5
	2.	Other	Major	Courses				
			•	College Accounting	3	2	0	4

CIS	110	Introduction to Computers	2	2	0	3
		Orientation to Clinical Setting I	0	$\overline{0}$	3	1
		Professional Interaction in Health Care	1	0	0	1
MED	232	Medical Insurance Coding	1	3	0	2
MED	270	Symptomatology	2	2	0	3
MED	272	Drug Therapy	3	0	0	3
OST	131	Keyboarding	1	2	0	2
Optio	nal E	lective				
MED	134	Medical Transcription	2	2	0	3
C. Other Required Courses						
ACA	122	College Transfer Success	0	2	0	1

Total Credit Hours

68-71

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE MEDICAL ASSISTING

			Class	Lab	Work/ Clinica	l Credit
		First Year – Fall Semester	Clubb	Luo	emica	- create
ACA	122	College Transfer Success	0	2	0	1
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MED	110	Orientation to Medical Assisting	1	0	0	1
MED	118	Medical Law and Ethics	2	0	0	2
MED	121	Medical Terminology I	3	0	0	3
MED	130	Administrative Office Procedures I	1	2	0	2
OST	131	Keyboarding	1	2	0	2
			13	8	0	17
		First Year – Spring Semester	r			
BIO	163	Basic Anatomy and Physiology	4	2	0	5
ENG	112	Writing/Research in the Disciplines	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MED	112	Orientation to Clinical Setting I	0	0	3	1
MED	122	Medical Terminology II	3	0	0	3
MED	131	Administrative Office Procedures II	1	2	0	2
MED	232	Medical Insurance Coding	1	3	0	2
				_		
			14	9	3	19
	1.40	First Year – Summer Semeste			0	_
MED	140	Exam Room Procedures I	3	4	0	5
			3	4	0	5

		Second Year – Fall Semester	ľ					
ACC	115	College Accounting	3	2	0	4		
MED	114	Professional Interaction in Health Care	1	0	0	1		
MED	150	Laboratory Procedures I	3	4	0	5		
MED	270	Symptomatology	2	2	0	3		
MED	272	Drug Therapy	3	0	0	3		
						—		
			12	8	0	16		
		Second Year – Spring Semest	er					
MED	260	MED Clinical Practicum	0	0	15	5		
PSY	150	General Psychology	3	0	0	3		
		Humanities/Fine Arts Elective*	3	0	0	3		
						—		
			6	0	15	11		

Total Credit Hours

68

*Approved Electives are listed on the page before the Course Descriptions.

SEMESTER SCHEDULE MEDICAL ASSISTING (CERTIFICATE) (C45400)

		MEDICAL ASSISTING (CERTIFIC)	31L)(U4,			
				. .	Work/	a 11
			Class	Lab	Clinical	Credit
		Fall Semester				
MED	110	Orientation to Medical Assisting I	1	0	0	1
MED	118	Medical Law and Ethics	2	0	0	2
MED	121	Medical Terminology I	3	0	0	3
MED	130	Administrative Office Procedures I	1	2	0	2
			7	2	0	8
		Spring Semester				
MED	122	Medical Terminology II	3	0	0	3
MED	131	Administrative Office Procedures II	1	2	0	2
MED	134	Medical Transcription	2	2	0	3
MED	232	Medical Insurance Coding	1	3	0	2
				—		
			7	7	0	10
					10	

Total Credit Hours

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Program Completion Guide ASSOCIATE IN APPLIED SCIENCE - MEDICAL ASSISTING (A45400)

Student Name:	ID #:	Date of Enrollment:	

Criminal background checks and/or drug testing may be required by clinical agencies prior to a student's participation in the clinical component of a course. Failure to meet clinical agency requirements will result in the student not having the opportunity to meet clinical objectives; therefore, the student will not be allowed to progress in the program.

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Medical Assisting Certificate (C45400) Course Requirements 18 credit hours: Complete Section I (as required) and Section

II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
MED 110 Orientation to Medical Assisting*	1	1 st year – fall	Pre: DRE 098 or ENG 090 and RED 090, DMA 010-040 or MAT 070, Enrollment in Medical Assisting program Co: MED 130		
MED 118 Medical Law & Ethics*	2	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090		
MED 121 Medical Terminology*	3	1 st year - fall	None		
MED 130 Administrative Office Procedures*	2	1 st year - fall	Pre: DRE 098 or ENG 090 and RED 090, Enrollment in Medical Assisting program Co: MED 110		
MED 122 Medical Terminology II*	3	1 st year - spring	Pre: MED 121		
MED 131 Administrative Office Procedures II*	2	1 st year - spring	Pre: MED 130 Co: MED 232		
MED 134 Medical Transcription (Optional Elective for degree.)	3	1 st year - spring	Pre: MED 121		
MED 232 Medical Insurance Coding	2	1 st year - spring	Pre: MED 121 Co: MED 131		

B. Medical Assisting Associate in Applied Science Degree (A45400) Course Requirements 68-71 credit hours: Complete Sections I (as required) and Section II, A and B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer College	1	1 st year – fall	None		
CIS 110 Intro to Computers	3	1 st year – fall	Pre: DRE 097 Co: DRE 098		
ENG 111 Writing and Inquiry	3	1 st year — fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		

			0	-
OST 131 Keyboarding	2	1 st year – fall	Pre: 25 NWPM on keyboarding placement test	
BIO 163 Basic Anatomy & Physiology*	5	1 st year – spring	Pre: DRE 098 or ENG 090 and RED 090, DMA 010-050 or MAT 070	
ENG 112 Writing/Research in the Disciplines	3	1 st year – spring	Pre: ENG 111	
MAT 143 Quantitative Literacy	3	1 st year – spring	Pre: DMA 010-050, DRE 098 Co: ACA 122	
MED 112 Orientation to Clinical Setting I	1	1 st year - spring	Pre: MED 110, MED 118, MED 121, MED 130	
MED 140 Exam Room Procedures I*	5	1 st year - summer	Pre: BIO 163, MED 121, MED122	
ACC 115 College Accounting	4	2 nd year - fall	Pre: DMA 010-040 or MAT 070, DRE 097 or RED 080 Co: DRE 098	
MED 114 Professional Interactions in Health Care	1	2 nd year - fall	Pre: MED 140, Enrollment in Medical Assisting program	
MED 150 Lab Procedures I*	5	2 nd year - fall	Pre: MED 140	
MED 270 Symptomatology	3	2 nd year - fall	Pre: MED 122, MED 131, Enrollment in Medical Assisting program	
MED 272 Drug Therapy	3	2 nd year - fall	Pre: MAT 143, MED 140, Enrollment in Medical Assisting program	
MED 260 MED Clinical Practicum*	5	2 nd year - spring	Pre: MED 112,MED 114, MED 131, MED 150, MED 232, MED 270, MED 272	
PSY 150 General Psychology	3	2 nd year - spring	Pre: DRE 098 or ENG 090 and RED 090	

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only). Courses offered at RCC:

ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211									
	Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade					
		2 nd year - spring							

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

NON-PROFIT MANAGER

Nonprofit Leadership & Management (A25410) (Online)

The Nonprofit Leadership and Management curriculum is designed to prepare individuals for a leadership or management role in the nonprofit sector.

Course work includes an overview of nonprofit organizations (NPO), philanthropy, legal and ethical concerns, funding issues, and strategic planning. Additional coursework introduces grant writing, international non-governmental organizations (NGO), public relations and sustainable communities.

Graduates should qualify for positions at various levels of leadership and management in the non-profit sector.

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.

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 F	Educa	tion Courses				
	1.	Requir	red Co	ourses				
		ENG	111	Writing and Inquiry	3	0	0	3
		ENG	112	Writing/Research in the Disciplines	3	0	0	3
				Humanities/Fine Arts Elective*	3	0	0	3
				Social/Behavioral Sciences Elective*	3	0	0	3
	2.	Requir	ed Su	bject Area				
		MAT	143	Quantitative Literacy	2	2	0	3
В.	Ma	ajor Co	urses					
	1.	Core C	Course	S				
		To rec	eive a	degree, diploma, or certificate from RCC, a	student	must l	have a gro	ide of "C"
		or bett	er in d	all core courses for the program of study.				
		CIS	110	Introduction to Computers	2	2	0	3
		NPO	110	Introduction to Nonprofit Mgt.	3	0	0	3
		NPO	111	Governance & Leadership	3	0	0	3
		NPO	115	Nonprofit Financial Management	3	0	0	3
		NPO	120	Fundraising/Stewardship	3	0	0	3
		NPO	215	NPO Advocacy & Public Policy	3	0	0	3
		NPO	225	Community Engagement	3	0	0	3
	2.	Other	Major	Courses				
		ACC	120	Principles of Financial Accounting	3	2	0	4

	ACC	121	Principles of Managerial Accounting	3	2	0	4
	BUS	137	Principles of Management	3	0	0	3
	BUS	153	Human Resource Management	3	0	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
	PMT	110	Intro to Project Management	3	0	0	3
3.	Requir	ed Su	bject Area				
	Busine	ess Ele	ective (Select 3 credits from the following o	courses)			
	BUS	110	Introduction to Business	3	0	0	3
	BUS	115	Business Law I	3	0	0	3
	BUS	116	Business Law II	3	0	0	3
	BUS	121	Business Mathematics	2	2	0	3
	BUS	125	Personal Finance	3	0	0	3
	BUS	139	Entrepreneurship I	3	0	0	3
	BUS	230	Small Business Management	3	0	0	3
C. Otł	her Ree	quire	d Courses				
		-	College Transfer Success	0	2	0	1
Total Credit Hours						66	

*Approved Electives offered online:

Humanities/Fine Arts Electives are: ART 111, ENG 231, ENG 232, ENG 242, ENG 262, ENG 273, MUS 110, PHI 240, REL 211, REL 212, and SPA 111.

Social/Behavioral Sciences Electives are: ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, POL 110, POL 120, PSY 150, PSY 241, SOC 210, and SOC 213.

SEMESTER SCHEDULE

NONPROFIT LEADERSHIP & MANAGEMENT (ONLINE)

				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	
ENG	111	Writing and Inquiry	3	0	0	3	
MAT	143	Quantitative Literacy	2	2	0	3	
NPO	110	Introduction to Nonprofit Management	3	0	0	3	
			10	6	0	13	
		First Year – Spring Semester	•				
BUS	137	Principles of Management	3	0	0	3	
CTS	130	Spreadsheet	2	2	0	3	
ENG	112	Writing/Research in the Disciplines	3	0	0	3	
NPO	111	Governance & Leadership	3	0	0	3	
PMT	110	Introduction to Project Management	3	0	0	3	
			14	2	0	15	

		First Year – Summer Semest	ter			
		Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			6	0	0	6
		Second Year – Fall Semeste	er			
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	153	Human Resource Management	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
NPO	120	Fundraising/Stewardship	3	0	0	3
NPO	215	NPO Advocacy & Public Policy	3	0	0	3
			15	2	0	16
		Second Year – Spring Semes	ter			
ACC	121	Principles of Managerial Accounting	3	2	0	4
ECO	251	Principles of Microeconomics	3	0	0	3
NPO	115	Nonprofit Financial Management	3	0	0	3
NPO	225	Community Engagement	3	0	0	3
		Business Elective	2-3	0-2	0	3
			 14-15	0-4	0	16
	Т	otal Credit Hours			66	

Total Credit Hours

66

*Approved Electives are listed above with the Course Requirements.

NONPROFIT LEADERSHIP & MANAGEMENT (CERTIFICATE) (C25410) (ONLINE) **COURSE REQUIREMENTS XX**7 **1** /

					Work/	
			Class	Lab	Clinical	Credit
BUS	137	Principles of Management	3	0	0	3
NPO	110	Introduction to Nonprofit Management	3	0	0	3
NPO	111	Governance & Leadership	3	0	0	3
NPO	120	Fundraising/Stewardship	3	0	0	3
NPO	215	NPO Advocacy & Public Policy	3	0	0	3
NPO	225	Community Engagement	3	0	0	3
					—	
			18	0	0	18
	То	tal Credit Hours			18	

Total Credit Hours

Although the program has a national application, the following courses have a focus in North Carolina: BUS 153, NPO 111, NPO 120, and NPO 125.

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, ACC 121, ART 111, BUS 110, BUS 115, BUS 137, CIS 110, ECO 251, ECO 252, ENG 111, ENG 112, ENG 231, ENG 232, HIS 131, HIS 132, HSE 225, MAT 143, MUS 110, PHI 240, POL 120, PSY 150, REL 211, REL 212, SOC 210, 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.

Program Planning Guide

ASSOCIATE IN APPLIED SCIENCE - NONPROFIT LEADERSHIP AND MANAGEMENT (A25410) (ONLINE) Non-Profit Manager

Student Name:	I	D #:	Catalog:

Advisor Name: ______ Contact Information: _____

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

A. Nonprofit Leadership and Management Certificate ONLINE (C25410) Course Requirements 18 credit hours: Complete Section A.

Courses	Cr.	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
BUS 137 Principles of Management	3	1 st year - spring		
NPO 110 Introduction to Nonprofit Management*	3	1 st year - fall		
NPO 111 Government & Leadership*	3	1 st year - spring		
NPO 120 Fundraising/Stewardship*	3	2 nd year - fall		
NPO 215 NPO Advocacy & Public Policy*	3	2 nd year - fall		
NPO 225 Community Engagement*	3	2 nd year - spring		

B. Nonprofit Leadership and Management Degree ONLINE (A25410) Course Requirements 66 credit hours: Complete Sections A and B.

		Recommended	Semester	
Courses	Cr.	Semester	Registered/Planned	Semester Completed/Grade
ACA 122 College Transfer Success	1	1 st year - fall		
CIS 110 Introduction to Computers*	3	1 st year - fall		
ENG 111 Writing & Enquiry	3	1 st year - fall		
MAT 143 Quantitative Literacy	3	1 st year - fall		
CTS 130 Spreadsheet	3	1 st year - spring		
ENG 112 Writing/Research in the Discipline	3	1 st year - spring		
PMT 110 Introduction to Project	3	1 st year - spring		
Management	5	1. year - spring		
ACC 120 Principles of Financial Accounting	4	2 nd year - fall		
BUS 153 Human Resource Management	3	2 nd year - fall		
ECO 252 Principles of Macroeconomics	3	2 nd year - fall		
ACC 121 Principles of Managerial	4	2nd year caring		
Accounting	4	2 nd year - spring		
ECO 251 Microeconomics	3	2 nd year - spring		
NPO 115 Nonprofit Financial Management*	3	2 nd year - spring		

Required Subject Area:

Business Electives (Select 3 credit hours from the following courses)							
BUS 110, BUS 115, BUS 116, BUS 121, BUS 125, BUS 139, BUS 230							
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade				
	2 nd year – spring						

Electives: (Must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine A	Humanities/Fine Arts Electives (3 credit hours)**									
ART 111, ENG 231, ENG 232, ENG 242, ENG 262, ENG 273, MUS 110, PHI 240, REL 110, REL 211, REL 212, SPA 111										
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade							
	1 st year - summer									

Social/Behavioral	Sciences Electives (3 credit hours	s)**	
ANT 220, HIS 111, HIS 2	112, HIS 131, HIS 132, POL 110, POL 120, F	PSY 150, PSY 241, SOC 210, SOC 213	
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	1 st year - summer		
	nust be completed with a grade of "C" or catalog for prerequisite and/or corequisit		
l understand that as an F follow the established co My advisor has informat	ourse sequence or my ability to graduate o	opportunities that I can investigate after completir	-
Student Name:	S	tudent Signature:	Date:
Advisor Name:	Α	dvisor Signature:	Date:
Student Name:	S	tudent Signature:	Date:
Advisor Name:	Α	dvisor Signature:	Date:
Student Name:	S	tudent Signature:	Date:
Advisor Name:	Α	dvisor Signature:	Date:
Student Name:	S	tudent Signature:	Date:
Advisor Name:	А	dvisor Signature:	Date:
Student Name:	S	tudent Signature:	Date:
Advisor Name:	А	dvisor Signature:	Date:

Although the program has a national application, the following courses have a focus in North Carolina: BUS 153, NPO 111, NPO 120, and NPO 125.

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, ACC 121, ART 111, BUS 110, BUS 115, BUS 137, CIS 110, ECO 251, ECO 252, ENG 111, ENG 112, ENG 231, ENG 232, HIS 131, HIS 132, HSE 225, MAT 143, MUS 110, PHI 240, POL 120, PSY 150, REL 211, REL 212, SOC 210, 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.

Office Administration (A25370)

The Office Administration curriculum prepares individuals for positions in administrative support careers. It equips office professionals to respond to the demands of a dynamic computerized workplace.

Students will complete courses designed to develop proficiency in the use of integrated software, oral and written communication, analysis and coordination of office duties and systems, and other support topics. Emphasis is placed on non-technical as well as technical skills.

Graduates should qualify for employment in a variety of positions in business, government, and industry. Job classifications range from entry-level to supervisor to middle management.

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.

						Work/	a 14
	~			Class	Lab	Clinical	Credit
			tion Courses				
	l. Requi			2	0	0	2
			Public Speaking	3	0	0	3
	ENG	111	Writing and Inquiry	3	0	0	3
	ENG		Writing/Research in the Disciplines	3	0	0	3
	MAT	143	Quantitative Literacy	2	2	0	3
			Humanities/Fine Arts Elective*	3	0	0	3
			Social/Behavioral Sciences Elective*	3	0	0	3
	Major Co						
]	L. Core	Course	es				
			e degree, diploma or certificate from RCC, a	i student	must l	have a gra	ide of "C"
	or bet	ter in	all core courses for the program of study.				
	OST	136	Word Processing	2	2	0	3
	OST	137	Office Applications I	2	2	0	3
	OST	164	Office Editing	3	0	0	3
	OST	184	Records Management	2	2	0	3
	OST	289	Office Admin Capstone	2	2	0	3
	2. Gener	al Off	ice Concentration				
	OST	122	Office Computations	1	2	0	3
	OST	145	Social Media for Office Prof	2	2	0	3
	OST	236	Advanced Word Processing	2	2	0	3
	3. Other		Courses				
		•	College Accounting	3	2	0	4
	BUS		Principles of Management	3	0	0	3
	200			e	Ŭ	•	-

CTS	130	Spreadsheet	2	2	0	3
DBA	110	Database Concepts	2	3	0	3
OST	131	Keyboarding	1	2	0	2
OST	132	Keyboard Skill Building	1	2	0	2
OST	134	Text Entry & Formatting	2	2	0	3
OST	233	Office Publications Design	2	2	0	3
OST	286	Professional Development	3	0	0	3
or						
WBL	112	Work-Based Learning I	0	0	20	2
		Elective**	1-4	0-3	0	2-4
Other Re	quire	d Courses				
ACA	122	College Transfer Success	0	2	0	1

Total Credit Hours

C.

70-73

*Approved Electives are listed on the page before the Course Descriptions.

**Approved Elective may be selected from the following courses:

T.			5				
	ACC	150	Accounting Software Applications	1	2	0	2
	BUS	110	Introduction to Business	3	0	0	3
	BUS	121	Business Management	2	2	0	3
	BUS	125	Personal Finance	3	0	0	3
	BUS	153	Human Resource Management	3	0	0	3
	BUS	228	Business Statistics	2	2	0	3
	BUS	230	Small Business Management	3	0	0	3
	BUS	261	Diversity in Management	3	0	0	3
	BUS	280	REAL Small Business	4	0	0	4
	CIS	115	Intro to Prog & Logic	2	3	0	3
	CTS	120	Hardware/Software Support	2	3	0	3
	ECO	251	Principles of Microeconomics	3	0	0	3
	ECO	252	Principles of Macroeconomics	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
	MKT	224	International Marketing	3	0	0	3
	MKT	228	Service Marketing	3	0	0	3
	PSY	150	General Psychology	3	0	0	3
	WEB	110	Internet/Web Fundamentals	2	2	0	3
	WEB	140	Web Development Tools	2	2	0	3
			*				

SEMESTER SCHEDULE OFFICE ADMINISTRATION

			Class	Lah	Work/ Clinical	Credit
		First Year – Fall Semester	Ciubb	Luo	Chineur	cicuit
ACA	122	College Transfer Success	0	2	0	1

BUS137ENG111MAT143OST122OST131OST184	Principles of Management Writing and Inquiry Quantitative Literacy Office Computations Keyboarding Records Management	3 3 1 1 2	0 0 2 2 2	0 0 0 0 0 0	3 3 3 2 3
		13	8	0	18
CTC 120	First Year – Spring Semester		2	0	2
CTS 130	Spreadsheet	2	2	0	3
ENG 112	Writing/Research in the Disciplines	3	0	0	3
OST 132	Keyboard Skill Building	1	2 2	0	2 3
OST 134 OST 136	Text Entry & Formatting	2 2	$\frac{2}{2}$	0	3 3
OST 136 OST 164	Word Processing Office Editing	23		$\begin{array}{c} 0\\ 0\end{array}$	3
051 104	Office Editing	5	0	0	5
		13	8	0	17
	Second Year – Fall Semester		0	0	17
ACC 115	College Accounting	3	2	0	4
OST 137	Office Applications I	2	$\frac{1}{2}$	0	3
COM 231	Public Speaking	3	0	0	3
OST 236	Advanced Word Processing	2	2	0	3
	Elective**	1-4	0-3	0	2-4
	Humanities/Fine Arts Elective*	3	0	0	3
		14-17	6-9	0	18-20
	Second Year – Spring Semest	er			
OST 145	Social Media for Office Prof	2	2	0	3
DBA 110	Database Concepts	2	3	0	3
OST 233	Office Publications Design	2	2	0	3
OST 286	Professional Development	3	0	0	3
or					
WBL 112	Work-Based Learning I	0	0	20	2
OST 289	Office Admin Capstone	2	2	0	3
	Social/Behavioral Sciences Elective*	3	0	0	3
		 11-15	9	0-20	17-18

70-73

Total Credit Hours *Approved Electives are listed on the page before the Course Descriptions.

			0			
					Work/	
			Class	Lab	Clinical	Credit
OST	131	Keyboarding	1	2	0	2
OST	136	Word Processing	2	2	0	3
OST	137	Office Applications I	2	2	0	3
OST	164	Office Editing	3	0	0	3
OST	184	Records Management	2	2	0	3
			10	8	0	14
	То	tal Credit Hours			14	

OFFICE ADMINISTRATION (CERTIFICATE) (C25370R) COURSE REQUIREMENTS

MICROSOFT OFFICE (CERTIFICATE) (C25370MS) COURSE REQUIREMENTS

First Year – Spring Semester

		institut spring semester	•			
					Work/	
			Class	Lab (Clinical	Credit
OST	136	Word Processing	2	2	0	3
			2	2	0	3
		Second Year – Fall Semester	•			
CTS	130	Spreadsheet	2	2	0	3
OST	137	Office Applications I	2	2	0	3
OST	236	Advanced Word Processing	2	2	0	3
						—
			6	6	0	9
		Second Year – Spring Semest	er			
DBA	110	Database Concepts	2	3	0	3
OST	233	Office Publications Design	2	2	0	3
			4	5	0	6
					10	
		Total Credit Hours			18	

Program Completion Guide **ASSOCIATE IN APPLIED SCIENCE - OFFICE ADMINISTRATION (A25370)**

Student Name: _____ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Microsoft Office Certificate (C25370MS) Course Requirements 18 credit hours: Complete Section I (as required) and Section II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
OST 136 Word Processing*	3	1 st year – spring	Pre: CIS 070		
CTS 130 Spreadsheet	3	2 nd year – fall	Pre: DMA 010-040, DRE 097 Co: DRE 098		
OST 137 Office Applications I	3	2 nd year – fall	None		
OST 236 Advanced Word Processing	3	2 nd year – fall	Pre: OST 136		
DBA 110 Database Concepts	3	2 nd year – spring	Pre: CIS 110, CIS 111, CTI 110, or OST 136		
OST 233 Office Publications Design	3	2 nd year – spring	Pre: OST 136		

B. Office Administration Certificate (C25370R) Course Requirements 14 credit hours: Complete Section I (as required) and Section II, B.

				Semester	Semester
		Recommended	Prerequisites/	Registered/	Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
OST 131 Keyboarding	2	1 st year – fall	Pre: 25 NWPM on keyboarding placement test		
OST 136 Word Processing*	3	1 st year – spring	Pre: CIS 070		
OST 137 Office Applications I	3	2 nd year – fall	None		
OST 164 Office Editing*	3	1 st year – spring	Pre: OST 131		
OST 184 Records Management*	3	1 st year – fall	NONE		

C. Office Administration Associate in Applied Science Degree (A25370) Course Requirements 70-73 credit hours: Complete Sections I (as required) and Section II, B and C.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
BUS 137 Principles of Management	3	1 st year – fall	Pre: DRE 098 or ENG 090 and RED 090		
ENG 111 Writing and Inquiry	3	1 st year – fall	Pre: DRE 098 or ENG 090 and RED 090 Co: ACA 122		
MAT 143 Quantitative Literacy	3	1 st year – fall	Pre: DMA 010-050, DRE 098 Co: ACA 122		

OST 122 Office Computations	3	1 st year – fall	None	
CTS 130 Spreadsheet	3	1 st year – spring	Pre: DMA 010-040, DRE 097 Co: DRE 098	
ENG 112 Writing/Research in the Disciplines	3	1 st year – spring	Pre: ENG 111	
OST 132 Keyboard Skill Building	2	1 st year – spring	Pre: OST 131	
OST 134 Text Entry & Formatting	3	1 st year – spring	Pre: OST 131 Co: OST 132	
ACC 115 College Accounting	4	2 nd year – fall	Pre: DMA 010-040 or MAT 070, DRE 097 or RED 080 Co: DRE 098	
COM 231 Public Speaking	3	2 nd year – fall	Pre: DRE 098 or ENG 090 and RED 090	
OST 236 Advanced Word Processing	3	2 nd year – fall	Pre: OST 136	
DBA 110 Database Concepts	3	2 nd year – spring	Pre: OST 136	
OST 145 Social Media for Office Prof	3	2 nd year – spring	Pre: CIS 110 or OST 137	
OST 233 Office Publications Design	3	2 nd year – spring	Pre: OST 136	
OST 286 Professional Development	3		Pre: ENG 111	
or WBL 112 Work-Based Learning I	2	2 nd year – spring	Pre: 9 SHC in the major core courses	
OST 289 Office Admin Capstone*	3	2 nd year – spring	Pre: ENG 111, OST 134, OST 136, OST 164, OST 236	

Required Subject Area:

Electives (Select one course from the list below) (2-4 credits)**										
ACC 150, BUS 110, BUS 121, BUS 125, BUS 153, BUS 228, BUS 230, BUS 261, BUS 280, CIS 115, CTS 120, ECO 251, ECO 252, MED 121, MKT 120, MKT 221, MKT 223, MKT 224, MKT 228, PSY 150, WEB 110, WEB 140										
Course										
2 nd year – fall										

Electives: (All degree seeking students <u>must</u> take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)

Humanities/Fine Arts Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).									
	Courses offered at RCC: ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212, SPA 211								
Course									
	2 nd year – fall								

Social/Behavioral Sciences Electives (3 credits)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)									
	Courses offered at RCC: ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213								
Course Recommended Semester Semester Registered/Planned Semester Com			Semester Completed/Grade						
	2 nd year – spring								

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

Practical Nursing (Diploma) (D45660)

The Practical Nursing curriculum prepares individuals with the knowledge and skills to provide nursing care to children and adults.

Students will participate in assessment, planning, implementing, and evaluating nursing care.

Graduates are eligible to apply to take the National Council Licensure Examination (NCLEX-PN) which is required for practice as a Licensed Practical Nurse. Employment opportunities include hospitals, rehabilitation/long term care/home health facilities, clinics, and physicians' offices.

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.

					Class	Lab	Work/ Clinical	Credit
А.	Ge	eneral H	Educa	tion Courses				
	1.	Requir	red Cc	vurses				
		ENG	111	Writing and Inquiry	3	0	0	3
		PSY	150	General Psychology	3	0	0	3
В.	Ma	ajor Co	ourses					
	1.	Core C	Course	S				
		To rec	eive a	degree, diploma or certificate from RCC, a	student	must h	nave a gro	ide of "C"
		or bett	ter in d	all core courses for the program of study.				
		NUR	101	Practical Nursing I	7	6	6	11
		NUR	102	Practical Nursing II	7	0	9	10
		NUR	103	Practical Nursing III	6	0	9	9
	2.	Other	Major	Courses				
		BIO	165	Anatomy and Physiology I	3	3	0	4
		BIO	166	Anatomy and Physiology II	3	3	0	4
			ſ	Sotal Credit Hours			44	

SEMESTER SCHEDULE PRACTICAL NURSING (DIPLOMA) (D45660)

			Work/			
			Class	Lab	Clinical	Credit
		Fall – Semester				
BIO	165	Anatomy and Physiology I	3	3	0	4
NUR	101	Practical Nursing I	7	6	6	11
PSY	150	General Psychology	3	0	0	3

			13	9	6	18
		Spring – Semester	r			
BIO	166	Anatomy and Physiology II	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
NUR	102	Practical Nursing II	7	0	9	10
				—		—
			13	3	9	17
		Summer – Semeste	er			
NUR	103	Practical Nursing III	6	0	9	9
						_
			6	0	9	9
	Te	otal Credit Hours			44	

Program Completion Guide—2017-2018 Enrollment DIPLOMA - PRACTICAL NURSING (D45660)

Student Name:	ID #:	Date of Enrollment:

Criminal background checks and/or drug testing may be required by clinical agencies prior to a student's participation in the clinical component of a course. Failure to meet clinical agency requirements will result in the student not having the opportunity to meet clinical objectives; therefore, the student will not be allowed to progress in the program.

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II: Practical Nursing Diploma (D45660) Course Requirements 44 credit hours: Complete Sections I (as required) and II.

		Recommended			Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Prerequisites	Corequisites	Planned	Grade
ACA 122 College Transfer Success (Course <u>not required</u> but recommended)	1	1 st year – fall	None	None		
BIO 165 Anatomy & Physiology I	4	1 st year – fall	DRE 098 or ENG 090 and RED 090, DMA 010-050 or MAT 070	None		
NUR 101 Practical Nursing I	11	1 st year – fall	Admission to Practical Nursing program	BIO 165		
PSY 150 General Psychology	3	1 st year – fall	DRE 098 or ENG 090 and RED 090	None		
BIO 166 Anatomy & Physiology II	4	1 st year – spring	BIO 165	None		
ENG 111 Writing and Inquiry	3	1 st year – spring	DRE 098 or ENG 090 and RED 090	ACA 122		
NUR 102 Practical Nursing II	10	1 st year – spring	NUR 101	BIO 166		
NUR 103 Practical Nursing III	9	1 st year – summer	NUR 102	None		

NOTES:

Must obtain a grade of "C" or better in all courses in the Practical Nursing curriculum in order to progress in the program and/or to graduate.

- NUR courses must have a grade of 80 or better to progress.
- See course catalog for Prerequisite/Corequisite requirements.

Students please read the following and sign below:

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must do the following or it may affect my ability to graduate on time.

- Complete all curriculum courses with a grade of "C" or better; obtain a grade of 80 or higher in all NUR courses to progress in the Nursing curriculum.
- Follow the established courses sequence and successfully complete all courses.
- Maintain a 2.0 GPA to progress in the nursing curriculum and to graduate.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name: ____

_____ Student Signature: ____

___ Date: ____

_____ Advisor Signature: _____

_____ Date: _____

Revised August 3, 2017

- -

School-Age Care (Certificate) (C55450)

This curriculum prepares individuals to work with school-age children in diverse learning environments. The curriculum is specifically designed for students planning to work in public or private school-age care environments.

Course work includes child growth/development; physical/nutritional needs of school-age children; care and guidance of school-age children; and communication skills with parents and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of school-age populations

Graduates are prepared to plan and implement developmentally appropriate activities in schoolage environments. Employment opportunities include school-age teaching or school-age administration positions in childcare/development programs, group leaders, before and after school programs, recreational centers and other programs that work with school-age populations.

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.

					Work/	
			Class	Lab	Clinical	l Credit
A. Major C	ourses	5				
1. Core	Course	es				
To re	ceive a	degree, diploma or certificate from RCC,	a student	must h	ave a gr	ade of "C"
or be	tter in	all core courses for the program of study.				
EDU	131	Child, Family, & Community	3	0	0	3
EDU	145	Child Development II	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
or						
EDU	163	Classroom Management & Instruction	3	0	0	3
EDU	158	Healthy Lifestyles-Youth	3	0	0	3
EDU	235	School-Age Development & Programs	3	0	0	3
EDU	263	School-Age Program Admin	2	0	0	2
		Total Credit Hours			17	

Revised August 3, 2017

					Work/	
			Class	Lab	Clinical	Credit
EDU	131	Child, Family, & Community	3	0	0	3
EDU	145	Child Development II	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
or						
EDU	163	Classroom Management & Instruction	3	0	0	3
EDU	158	Healthy Lifestyles-Youth	3	0	0	3
EDU	235	School-Age Development & Programs	3	0	0	3
EDU	263	School-Age Program Admin	2	0	0	2
			12	0	0	12

SCHOOL-AGE CARE (CERTIFICATE) (C55450) COURSE REQUIREMENTS

Total Credit Hours

17

Program Planning Guide SCHOOL-AGE CARE (CERTIFICATE) (C55450)

Student Name:			Date of I	nrollment: _	
Section I: Developmental Courses (i	f needed)				
			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II: School-Age Care Certificate (C55450) Course Requirements 17 credit hours: Complete Sections I (as required) and II.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
EDU 131 Child, Family, and Community *	3	Fall	Co: DRE 097		
EDU 235 School-Age Development & Programming*	3	Fall	Co: DRE 098		
EDU 263 School-Age Program Administration*	2	Fall	Co: DRE 098		
EDU 145 Child Development II*	3	Spring	Co: DRE 097		
EDU 158 Healthy Lifestyles-Youth*	3	Spring	Co: DRE 097		
EDU 146 Child Guidance*		Spring	Co: DRE 098		
or	3				
EDU 163 Classroom Management & Instruction*		Fall	Co: DRE 097		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

PRE-NURSING

Therapeutic and Diagnostic Services: Nurse Aide (Diploma) (D45970)

A program that prepares individuals to work under the supervision of licensed health care professionals in performing nursing care and services for persons of all ages. Course work emphasizes growth and development throughout the lifespan, personal care, vital signs, communication, nutrition, medical asepsis, therapeutic activities, accident and fire safety, household environment and equipment management; family resources and services; and employment skills. Graduates of this program may be eligible to be listed on the Division of Health Service Regulation (DHSR) Nurse Aide registry as a Nursing Assistant I and the N.C. Board of Nursing Nurse Aide II registry as a Nursing Assistant II. They may be employed in home health agencies, hospitals, clinics, nursing homes, extended care facilities, and doctor's offices.

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.

						Work/	
				Class	Lab	Clinical	Credit
А.	General H	Educa	tion Courses				
	1. Requir	red Co	Durses				
	ENG	111	Writing and Inquiry	3	0	0	3
	PSY	150	General Psychology	3	0	0	3
В.	Major Co	urses	6				
	1. Core C	Course	es				
	To rec	eive a	degree, diploma or certificate from RCC, a	i student	must V	iave a gr	ade of "C"
	or bett	er in	all core courses for the program of study.				
	MED	121	Medical Terminology I	3	0	0	3
	MED	122	Medical Terminology II	3	0	0	3
	NAS	101	Nursing Assistant I	3	4	3	6
	NAS	102	Nursing Assistant II	3	2	6	6
	2. Other	Majoı	Courses				
	BIO	165	Anatomy and Physiology I	3	3	0	4
	BIO	166	Anatomy and Physiology II	3	3	0	4
	CIS	110	Introduction to Computers	2	2	0	3
	SOC	210	Introduction to Sociology	3	0	0	3
C.	Other Re	quire	d				
	ACA	122	College Transfer Success	0	2	0	1
	Total Cre	dit H	ours			39	

					Work/	
			Class	Lab	Clinical	Credit
		Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
BIO	165	Anatomy and Physiology I	3	3	0	4
CIS	110	Intro to Computers	2	2	0	3
NAS	101	Nursing Assistant I	3	4	3	6
PSY	150	General Psychology	3	0	0	3
		,				
			11	11	3	17
		Spring Semester				
BIO	166	Anatomy and Physiology II	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
NAS	102	Nursing Assistant II	3	2	6	6
		C				
			12	5	6	16
		Summer Semester				
MED	122	Medical Terminology II	3	0	0	3
SOC	210	Introduction to Sociology	3	0	0	3
			6	0	0	6
	T	otal Credit Hours			39	

SEMESTER SCHEDULE THERAPEUTIC & DIAGNOSTIC SERVICES: NURSE AIDE (DIPLOMA) Work/

TDS: NURSE AIDE (CERTIFICATE) (C45970) COURSE REQUIREMENTS

		Class	Lab	Work/ Clinical	Credit
	Nursing Assistant I Nursing Assistant II			3 6	
	otal Credit Hours			12	

Program Completion Guide THERAPEUTIC AND DIAGNOSTIC SERVICES: NURSE AIDE (DIPLOMA) (D45970) **Pre-Nursing**

Student Name: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

Courses	Scores	Cr.	Prerequisites/ Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None	Giude	Notes/ Semester
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Sections II:

A. Therapeutic and Diagnostic Services: Nurse Aide Certificate (C45970) Course Requirements 12 credit hours: Complete Section I (as required) and Section II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
NAS 101 Nursing Assistant I*	6	1 st year – fall	Pre: NC DAP Reading, Revising/ Editing Writing & WritePlacer Composite Score of 151, or Accuplacer reading Score of 80, or Red 090 or DRE 098		
NAS 102 Nursing Assistant II*	6	1 st year – spring	Pre: DRE 098, NAS 101, and must have successful completion of Nurse Aide I training program & current Nurse Aide I listing on DHSR.		

B. Therapeutic and Diagnostic Services: Nurse Aide Diploma (D45970) Course Requirements 39 credit hours: Complete Section I (as required) and Section II, B.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
	-			Flatilieu	Uraue
ACA 122 College Transfer Success	1	1 st year – fall	None		
BIO 165 Anatomy & Physiology I	4	1 st year – fall	Pre: DMA 010- 050 or MAT 070, DRE 098 or ENG 090 & RED 090		
CIS 110 Intro to Computers	3	1 st year – fall	Pre: DRE 097		
cis 110 intro to computers	5	i year ran	Co: DRE 098		
			Pre: NC DAP Reading, Revising/		
			Editing Writing & WritePlacer		
NAS 101 Nursing Assistant I*	6	1 st year – fall	Composite Score of 151, or		
			Accuplacer reading Score of 80,		
			or Red 090 or DRE 098		
DSV 150 Conoral Development	2	1st year fall	Pre: DRE 098 or ENG 090 and		
PSY 150 General Psychology	3	1 st year – fall	RED 090		
BIO 166 Anatomy & Physiology II	4	1 st year – spring	Pre: BIO 165		
			Pre: DRE 098 or ENG 090 and		
ENG 111 Writing and Inquiry	3	1 st year – spring	Red 090		
			Co: ACA 122		

MED 121 Medical Terminology I*	3	1 st year – spring	Pre: DRE 098 or ENG 090 and RED 090
NAS 102 Nursing Assistant II*	6	1 st year – spring	Pre: DRE 098, NAS 101, and must have successful completion of Nurse Aide I training program & current Nurse Aide I listing on DHSR.
MED 122 Medical Terminology II*	3	1 st year – summer	Pre: MED 121
SOC 210 Introduction to Sociology	3	1 st year – summer	Pre: DRE 098

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:
Student Name:	Student Signature:	Date:
Advisor Name:	Advisor Signature:	Date:

Welding Technology (Diploma) (D50420)

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal working industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related selfemployment.

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.

							Work/	
					Class	Lab	Clinical	Credit
A.	Ge	eneral E	Educa	tion Courses				
	1.	Requir	red Co	burses				
		ENG	111	Writing and Inquiry	3	0	0	3
		MAT	143	Quantitative Literacy	2	2	0	3
B.	Ma	ajor Co	urses					
	1.	Core C	Course	S				
		To rec	eive a	degree, diploma or certificate from RCC, a	student	must k	have a gra	ide of "C"
		or bett	er in d	all core courses for the program of study.				
		WLD	110	Cutting Processes	1	3	0	2
		WLD	115	SMAW (Stick) Plate	2	9	0	5
		WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	4
		WLD	131	GTAW (TIG) Plate	2	6	0	4
		WLD	141	Symbols & Specifications	2	2	0	3
	2.			Courses				
		WLD	132	GTAW (TIG) Plate/Pipe	1	6	0	3
		WLD	151	Fabrication I	2	6	0	4
		WLD	215	SMAW (Stick) Pipe	1	9	0	4
	3. Select one of the following:		f the following:					
		ISC	112	Industrial Safety	2	0	0	2
		BPR	111	Print Reading	1	2	0	2
C.	Ot	her Ree	quire	d				

Work/

	Total Credit Hours			38	
ACA	122 College Transfer Success	<u>0</u>	<u>2</u>	<u>0</u>	<u>1</u>

Total Credit Hours

SEMESTER SCHEDULE WELDING TECHNOLOGY (DAY)

			,	Work/				
			Class	Lab	Clinical	Credit		
		First Year – Fall Semester						
ACA	122	College Transfer Success	0	2	0	1		
ENG	111	Writing and Inquiry	3	0	0	3		
MAT	143	Quantitative Literacy	2	2	0	3		
WLD	110	Cutting Processes	1	3	0	2		
WLD	115	SMAW (Stick) Plate	2	9	0	5		
WLD	141	Symbols & Specifications	2	2	0	3		
				—		—		
			10	18	0	17		
		First Year – Spring Semester						
ISC	112	Industrial Safety	2	0	0	2		
or					0	-		
BPR	111	Print Reading	1	2	0	2		
WLD	121	GMAW (MIG) FCA W/Plate	2	6	0	4		
WLD	131	GTAW (TIG) Plate	2	6	0	4		
WLD	215	SMAW (Stick) Pipe	1	9	0	4		
			6-7	21-23	0	14		
		First Year – Summer Semeste						
WLD	132	GTAW (TIG) Plate/Pipe	1	6	0	3		
WLD	151	Fabrication I	2	6	0	4		
			3	12	0	7		
	То	tal Credit Hours	-		38	-		

SEMESTER SCHEDULE WELDING TECHNOLOGY (EVENING)

			Class	Lab	Clinical	Credit
		First Year – Fall Semester				
ACA	122	College Transfer Success	0	2	0	1
WLD	110	Cutting Processes	1	3	0	2
WLD	115	SMAW (Stick) Plate	2	9	0	5
WLD	141	Symbols & Specifications	2	2	0	3
			_			
			5	16	0	11

		First Year – Spring Semester				
WLD	121	GMAW (MIG) FCA W/Plate	2	6	0	4
WLD	131	GTAW (TIG) Plate	2	6	0	4
WLD	215	SMAW (Stick) Pipe	1	9	0	4
			—			
			5	21	0	12
		First Year – Summer Semester				
WLD	132	GTAW (TIG) Plate/Pipe	1	6	0	3
WLD	151	Fabrication I	2	6	0	4
			3	12	0	7
		Second Year – Fall Semester				
ENG	111	Writing and Inquiry	3	0	0	3
ISC	112	Industrial Safety	2	0	0	2
or						
BPR	111	Print Reading	1	2	0	2
MAT	143	Quantitative Literacy	2	2	0	3
			—			—
			7	5	0	8
	То	tal Credit Hours			38	

SEMESTER SCHEDULE WELDING TECHNOLOGY (CERTIFICATE) (C50420)

)		
			Work/			
		Class	Lab Clinical Cred			
	First Year – Fall Semester					
WLD 1	10 Cutting Processes	1	3	0	2	
WLD 1	15 SMAW (Stick) Plate	2	9	0	5	
WLD 1	41 Symbols & Specifications	2	2	0	3	
		5	14	0	10	
	First Year – Spring Semester					
WLD 1	21 GMAW (MIG) FCAW/Plate	2	6	0	4	
WLD 1	31 GTAW (TIG) Plate	2	6	0	4	
		4	12	0	8	
	Total Credit Hours			18		

Program Completion Guide WELDING TECHNOLOGY (DIPLOMA) (D50420)

Student Name: ______ Date of Enrollment: ______

Section I: Developmental Courses (if needed)

			Prerequisites/		
Courses	Scores	Cr.	Corequisites	Grade	Notes/Semester
DMA 010 Operations with Integers	<7 on DAP	1	Pre: None		
DMA 020 Fractions and Decimals	<7 on DAP	1	Pre: DMA 010		
DMA 030 Propor/Ratio/Rate/Percent	<7 on DAP	1	Pre: DMA 010-020		
DMA 040 Express/Lin Equat/Inequal	<7 on DAP	1	Pre: DMA 010-030 or MAT 060		
DMA 050 Graphs/Equations of Lines	<7 on DAP	1	Pre: DMA 010-040 or DMA 040 and MAT 060		
DRE 096 Integrated Reading and Writing	104-116	3	Pre: None Co: CIS 070		
DRE 097 Integrated Reading Writing II	117-135	3	Pre: DRE 096 Co: CIS 070		
DRE 098 Integrated Reading Writing III	136-150	3	Pre: DRE 097 Co: CIS 070		

Section II:

A. Welding Technology Certificate (C50420) Course Requirements 18 credit hours: Complete Section I (as required) and Section II, A.

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
WLD 110 Cutting Processes*	2	1 st year – fall	None		
WLD 115 SMAW (Stick) Plate*	5	1 st year – fall	None		
WLD 141 Symbols & Specifications*	3	1 st year – fall	None		
WLD 121 GMAW (MIG) FCAW/ Plate*	4	1 st year - spring	None		
WLD 131 GTAW (TIG) Plate*	4	1 st year - spring	None		

Welding Technology Diploma (D50420) Course Requirements 39 credit hours: Complete Section I (as required) and Section II, Β. A and B.

		Recommended	Prerequisites/	Semester Registered/	Semester Completed/
Courses	Cr.	Semester	Corequisites	Planned	Grade
ACA 122 College Transfer Success	1	1 st year – fall	None		
WLD 215 SMAW (Stick) Pipe	4	1 st year - spring	Pre: WLD 115		
WLD 132 GTAW (TIG) Plate/Pipe	3	1 st year - summer	Pre: WLD 131		
WLD 151 Fabrication I	4	1 st year - summer	Pre: WLD 141		
ISC 112 Industrial Safety	2		None		
or		2 nd year - fall			
BPR 111 Print Reading	2		Pre: DMA 010-020		
ENG 111 Writing and Inquiry	3	2 nd year - fall	Pre: DRE 098 or ENG 090 and		
			RED 090		
			Co: ACA 122		
MAT 143 Quantitative Literacy	3	2 nd year - fall	Pre: DMA 010-050, DRE 098		
			Co: ACA 122		

NOTES: *All courses must be completed with a grade of "C" or better.

**See course catalog for prerequisite and/or corequisite requirements.

Students please read the following and sign below.

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of "C" or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name: ____

_____ Student Signature: _____ Date: _____ Date: _____

Advisor Name:

_____ Advisor Signature: _____

Date:

Revised August 3, 2017

Approved Electives

*APPROVED HUMANITIES/FINE ARTS ELECTIVES

Students in A.A.S. programs may select a humanities elective from any of these prefix areas: ART, DRA, ENG (Literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).

*Associate Degree Nursing Majors who plan to obtain a BSN should take one of the following Humanities/Fine Arts electives: ART-111, MUS-110, or PHI-240.

*APPROVED SOCIAL/BEHAVIORAL SCIENCES ELECTIVES

Students in A.A.S. programs may select a social/behavioral sciences elective from any of these prefix areas: ANT, ECO+, GEO, HIS, POL, PSY, and SOC.

+Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of the social/behavioral sciences elective requirement.

A.A.S. programs do not allow the use of COM courses as a humanities elective.

Course Descriptions

COURSE NUMBERING SYSTEM

Course designations consist of a three-letter course prefix followed by a three-digit number. The course number is followed by the title of the course. Course titles are followed by a sequence of four numbers: (1) class lecture hours per week; (2) lab hours per week; (3) clinical or shop or work experience hours per week; and (4) semester-hour credits (SHC) earned when the course is successfully completed.

Developmental education courses have numbers between 010-099. Examples: DRE 096, DMA 010.

Courses that can only be used for diploma and certificate curriculum have numbers between 100-109 and 200-209. Examples: ENG 102, PSY 101.

All associate degree, diploma, and certificate curriculum courses have numbers between 110-199 and 210-299. Examples: ENG 112, SOC 210.

College Transfer courses are identified in course descriptions with the statements: "This course has been approved to satisfy the Comprehensive Articulation agreement general education core requirement." or "This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement." These courses are approved for transfer to the 16 universities of The University of North Carolina System.

PREREQUISITES AND COREQUISITES

Many courses have prerequisites--other courses that must be completed prior to enrollment. For example, a student must complete PSY 150 before enrolling in PSY 241.

Many courses have developmental English, mathematics, or reading course Prerequisites: for example, DMA 010-050 and DRE 098 must be completed before taking MAT 143. To gain admission to the curriculum courses, students must either pass the appropriate developmental prerequisites or make appropriate scores on the Accuplacer® tests that measure skills in English, mathematics, and reading.

Corequisites are courses that are generally taken at the same time as other related courses: for example, BIO 140 with BIO 140A. In many cases, corequisites may be taken at the same time or earlier. For example, DRE 098 is a corequisite for BUS 110. Students may either complete DRE 098 before taking BUS 110 or they may take DRE 098 at the same time as BUS 110.

REQUIRED ACA COURSES

Students enrolled in programs of study requiring an ACA course will be required to enroll in that course during the first semester enrolled at Richmond Community College. Exceptions from this requirement will be given only upon written approval by the Vice President for Instruction/Chief Academic Officer or the Vice President of Student Services.

Work/
Class Lab Clinical Credit

ACA 115	Success & Study Skills	0	2	0	1
Prerequisites:	None				

Corequisites: None

This course provides an orientation to the campus resources and academic skills necessary to achieve educational objectives. Emphasis is placed on an exploration of facilities and services, study skills, library skills, self-assessment, wellness, goal-setting, and critical thinking. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals.

ACA 118	College Study Skills	1	2	0	2
Prerequisites:	None				
Corequisites:	None				

This course covers skills and strategies designed to improve study behaviors. Topics include time management, note taking, test taking, memory techniques, active reading strategies, critical thinking, communication skills, learning styles, and other strategies for effective learning. Upon completion, students should be able to apply appropriate study strategies and techniques to the development of an effective study plan.

ACA	122	College Transfer Success	0	2	0	1
D	• •	N.T.				

Prerequisites: None

Corequisites: None

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

ACA 115, ACA 118, and ACA 122 are interchangeable. ACA 118 or ACA 122 may be substituted for ACA 115. Only one ACA course can be used to fulfill graduation requirements.

ACC 111 Financial Accounting

3 0 0 3

Prerequisites: None Corequisites: None

This course introduces the basic framework of accounting. Emphasis is placed on the accounting cycle and financial statement preparation and analysis. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

Work/ Class Lab Clinical Credit

4

ACC 115 College Accounting

3 2 0

Prerequisites: DMA 010-040 or MAT 070, DRE 097 or RED 080

Corequisites: DRE 098

This course introduces basic accounting principles for a business. Topics include the complete accounting cycle with end-of-period statements, bank reconciliation, payrolls, and petty cash. Upon completion, students should be able to demonstrate an understanding of accounting principles and apply those skills to a business organization. This course is not intended as a substitute for ACC 120.

ACC 120Principles of Financial Accounting3204Prerequisites:DMA 010-040 or MAT 070, DRE 098 or RED 090

Corequisites: None

This course introduces business decision-making accounting information systems. Emphasis is placed on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial information in decision-making and address ethical considerations.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

ACC 121 Principles of Managerial Accounting 3 2 0 4

Prerequisites: ACC 120 with minimum grade of "C"

Corequisites: None

This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

ACC 122 Principles of Financial Acct II

3 0 0

Prerequisites: ACC 120 with minimum grade of "C"

Corequisites: None

This course provides additional instruction in the financial accounting concepts and procedures introduced in ACC 120. Emphasis is placed on the analysis of specific balance sheet accounts, with in-depth instruction of the accounting principles applied to these accounts. Upon completion, students should be able to analyze data, prepare journal entries, and prepare reports in compliance with generally accepted accounting principles.

3
3

Work/ Class Lab Clinical Credit

2

2

0

ACC 129 Individual Income Taxes 2 2 0

Prerequisites: DMA 010-040 or MAT 070, DRE 098 or RED 090

Corequisites: None

This course introduces the relevant laws governing individual income taxation. Topics include tax law, electronic research and methodologies, and the use of technology for preparation of individual tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various individual tax forms.

ACC 130 Business Income Taxes

Prerequisites: ACC 120 with minimum grade of "C" Corequisites: None

This course introduces the relevant laws governing business and fiduciary income taxes. Topics include tax law relating to business organizations, electronic research and methodologies, and the use of technology for the preparation of business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various business tax forms.

ACC 149 Intro to Accounting Spreadsheets 1 2 0 2

Prerequisites: ACC 115 or ACC 120

Corequisites: None

This course provides a working knowledge of computer spreadsheets and their use in accounting. Topics include pre-programmed problems, model-building problems, beginning-level macros, graphics, and what-if analysis enhancements of template problems. Upon completion, students should be able to use a computer spreadsheet to complete many of the tasks required in accounting.

ACC 150 Accounting Software Applications 1 2 0 2

Prerequisites: ACC 115 or ACC 120, CIS 110

Corequisites: None

This course introduces microcomputer applications related to accounting systems. Topics include general ledger, accounts receivable, accounts payable, inventory, payroll, and correcting, adjusting, and closing entries. Upon completion, students should be able to use a computer accounting package to solve accounting problems.

ACC 151 Accounting Spreadsheet Applications 1 2 0 2

Prerequisites: ACC 149

Corequisites: None

This course is designed to facilitate the use of spreadsheet technology as applied to accounting principles. Emphasis is placed on using spreadsheet software as a problem-solving and decision-making tool. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

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ACC 220 Intermediate Accounting I 3 2 0

Prerequisites: ACC 120 and ACC 121 or ACC 122 with minimum grade of "C" Corequisites: None

This course is a continuation of the study of accounting principles with in-depth coverage of theoretical concepts and financial statements. Topics include generally accepted accounting principles and an extensive analyses of financial statements. Upon completion, students should be able to demonstrate competence in the conceptual framework underlying financial accounting, including the application of financial standards.

ACC 221 Intermediate Accounting II

Prerequisites: ACC 220 with minimum grade of "C" Corequisites: None

This course is a continuation of ACC 220. Emphasis is placed on special problems which may include leases, bonds, investments, ratio analyses, present value applications, accounting changes, and corrections. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

ACC 225 Cost Accounting

Prerequisites: ACC 121 with a minimum grade of "C"

Corequisites: None This course introduces the nature and purposes of cost accounting as an information system for planning and control. Topics include direct materials, direct labor, factory overhead, process, job order, and standard cost systems. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the

AHR 110 Intro to Refrigeration

Prerequisites: None

topics covered.

Corequisites: None

This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components; refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade.

AHR 111 HVACR Electricity

Prerequisites: None

Corequisites: None

This course introduces electricity as it applies to HVACR equipment. Emphasis is placed on power sources, interaction of electrical components, wiring of simple circuits, and the use of electrical test equipment. Upon completion, students should be able to demonstrate good wiring practices and the ability to read simple wiring diagrams.

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	Work/ Class Lab Clinical Credit					
AHR 112	Heating Technology	2	4		4	
Prerequisites:	8					
Corequisites:	None					
This course co	overs the fundamentals of heating including	ig oil, gas, and	d electr	ic heatir	ng system	h

This course covers the fundamentals of heating including oil, gas, and electric heating systems. Topics include safety, tools and instrumentation, system operating characteristics, installation techniques, efficiency testing, electrical power, and control systems. Upon completion, students should be able to explain the basic oil, gas, and electrical heating systems and describe the major components of a heating system.

AHR 113	Comfort Cooling	2	4 0
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Prerequisites: None

Corequisites: None

This course covers the installation procedures, system operations, and maintenance of residential and light commercial comfort cooling systems. Topics include terminology, component operation, and testing and repair of equipment used to control and produce assured comfort levels. Upon completion, students should be able to use psychometrics, manufacturer specifications, and test instruments to determine proper system operation.

AHR 1	114	Heat Pump Technology	2	4	0
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Prerequisites: AHR 110 or AHR 113

Corequisites: None

This course covers the principles of air source and water source heat pumps. Emphasis is placed on safety, modes of operation, defrost systems, refrigerant charging, and system performance. Upon completion, students should be able to understand and analyze system performance and perform routine service procedures.

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AHR	115	Refrigeration Systems	
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Prerequisites: AHR 110

Corequisites: None

This course introduces refrigeration systems and applications. Topics include defrost methods, safety and operational control, refrigerant piping, refrigerant recovery and charging, and leak testing. Upon completion, students should be able to assist in installing and testing refrigeration systems and perform simple repairs.

AHR 120HVACR Maintenance13

Prerequisites: None

Corequisites: None

This course introduces the basic principles of industrial air conditioning and heating systems. Emphasis is placed on preventive maintenance procedures for heating and cooling equipment and related components. Upon completion, students should be able to perform routine preventive maintenance tasks, maintain records, and assist in routine equipment repairs.

AHR 130 HVAC Controls

2 2 0 3

Prerequisites: AHR 111 or ELC 111 or ELC 112

Corequisites: None

This course covers the types of controls found in residential and commercial comfort systems. Topics include electrical and electronic controls, control schematics and diagrams, test instruments, and analysis and troubleshooting of electrical systems. Upon completion, students should be able to diagnose and repair common residential and commercial comfort system controls.

AHR 151 HVAC Duct Systems I	1	3	0	2
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Prerequisites: None

Corequisites: None

This course introduces the techniques used to lay out and fabricate duct work commonly found in HVAC systems. Emphasis is placed on the skills required to fabricate duct work. Upon completion, students should be able to layout and fabricate simple duct work.

AHR 160Refrigerant Certification1001

Prerequisites: None

Corequisites: None

This course covers the requirements for the EPA certification examinations. Topics include small appliances, high pressure systems, and low pressure systems. Upon completion, students should be able to demonstrate knowledge of refrigerants and be prepared for the EPA certification examinations.

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Prerequisites: None

Corequisites: None

This course introduces common business and customer relation practices that may be encountered in HVACR. Topics include business practices, appearance of self and vehicle, ways of handling customer complaints, invoices, telephone communications, and warranties. Upon completion, students should be able to present themselves to customers in a professional manner, understand how the business operates, complete invoices, and handle complaints.

AHR 210 Residential Build	ng Code	1	2	0	2
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Prerequisites: None

Corequisites: None

This course covers the residential building codes that are applicable to the design and installation of HVAC systems. Topics include current residential codes as applied to HVAC design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of residential building codes that apply to specific areas of the HVAC trade.

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		Work/ Class Lab Clinical Credit			Credit
AHR 211 Residential System Design		2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the principles and concepts	s of conventi	onal resid	dential	heating	and cooling
system design. Topics include heating and c	ooling load	estimati	ing, ba	sic psy	chometrics,
equipment selection, duct system selection, and sy	ystem design	. Upon c	ompleti	on, stud	ents should
be able to design a basic residential heating and c	ooling syster	n.	-		
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AHR 212Advanced Comfort Systems260

Prerequisites: AHR 114

Corequisites: None

This course covers water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pump systems including variable speed drives and controls. Emphasis is placed on the application, installation, and servicing of water-source systems and the mechanical and electronic control components of advanced comfort systems. Upon completion, students should be able to test, analyze, and troubleshoot water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pumps.

AHR 213HVACR Building Code1202

Prerequisites: None

Corequisites: None

This course covers the North Carolina codes that are applicable to the design and installation of HVACR systems. Topics include current North Carolina codes as applied to HVACR design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of North Carolina codes that apply to specific areas of the HVACR trade.

AHR 235 Refrigeration Design

2 2 0

Prerequisites: AHR 110

Corequisites: None

This course covers the principles of commercial refrigeration system operation and design. Topics include walk-in coolers, walk-in freezers, system components, load calculations, equipment selection, defrost systems, refrigerant line sizing, and electric controls. Upon completion, students should be able to design, adjust, and perform routine service procedures on a commercial refrigeration system.

AHR 250 HVAC System Diagnostics

0	4	0	2

Prerequisites: None

Corequisites: AHR 212

This course is a comprehensive study of air conditioning, heating, and refrigeration system diagnostics and corrective measures. Topics include advanced system analysis, measurement of operating efficiency, and inspection and correction of all major system components. Upon completion, students should be able to restore a residential or commercial AHR system so that it operates at or near manufacturers' specifications.

AHR 255Indoor Air Quality1202

Prerequisites: None

Corequisites: None

This course introduces the techniques of assessing and maintaining the quality of the indoor environment in residential and commercial structures. Topics include handling and investigating complaints, filter selection, humidity control, testing for sources of carbon monoxide, impact of mechanical ventilation, and building and duct pressures. Upon completion, students should be able to assist in investigating and solving common indoor air quality problems.

ANT 220 Cultural Anthropology

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Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course introduces the nature of human culture. Emphasis is placed on cultural theory, methods of fieldwork, and cross-cultural comparisons in the areas of ethnology, language, and the cultural past. Upon completion, students should be able to demonstrate an understanding of basic cultural processes and how cultural data are collected and analyzed.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement for A.A.S. degree programs.

ART 111 Art Appreciation

3 0 0 3

Prerequisites: DRE 097 or RED 090 Corequisites: DRE 098

This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for humanities/fine arts in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement for A.A.S. degree programs.

ART 115 Art History Survey II

3 0 0 3

Prerequisites: DRE 097 or RED 090 Corequisites: DRE 098

This course covers the development of art forms from the Renaissance to the present. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. *Note:* In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for humanities/fine arts in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement for A.A.S. degree programs.

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ART 131 Drawing I

Prerequisites: None

Corequisites: None

This course introduces the language of drawing and the use of various drawing materials. Emphasis is placed on drawing techniques, media, and graphic principles. Upon completion, students should be able to demonstrate competence in the use of graphic form and various drawing processes.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

ASL 111 Elementary American Sign Language I 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces the fundamental elements of American Sign Language within a cultural context. Emphasis is placed on the development of basic expressive and receptive skills. Upon completion, students will be able to comprehend and respond with grammatical accuracy to expressive American Sign Language and demonstrate cultural awareness.

Note: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.

ASL 112 Elementary American Sign Language II 3 0 0 3

Prerequisites: ASL 111

Corequisites: None

This course is a continuation of ASL 111 focusing on the fundamental elements of American Sign Language in a cultural context. Emphasis is placed on the progressive development of expressive and receptive skills. Upon completion, the students should be able to comprehend and respond with increasing accuracy to expressive American Sign Language and demonstrate cultural awareness.

Note: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.

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ASL 181American Sign Language Lab 10201Prerequisites: None

Corequisites: None

This course provides an opportunity to enhance acquisition of the fundamental elements of American Sign Language. Emphasis is placed on the progressive development of basic expressive and receptive skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to expressive American Sign Language and demonstrate cultural awareness.

expressive American Sign Language and demonstrate cultural awareness. Note: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.

ASL 182 American Sign Language Lab 2 0 2 0

Prerequisites: ASL 181

Corequisites: None

This course provides an opportunity to enhance acquisition of the fundamental elements of American Sign Language. Emphasis is placed on the progressive development of basic expressive and receptive skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to expressive American Sign Language and demonstrate cultural awareness.

Note: This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.

AST 111 Descriptive Astronomy 3 0 0 3

Prerequisites: DMA 010-060 or MAT 070, DRE 097 or RED 090 Corequisites: AST 111A, DRE 098

This course introduces an overall view of modern astronomy. Topics include an overview of the solar system, the sun, stars, galaxies, and the larger universe. Upon completion, students should be able to demonstrate an understanding of the universe around them.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in the A.A. degree program. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

AST 111A Descriptive Astronomy Lab

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Prerequisites: None

Corequisites: AST 111

The course is a laboratory to accompany AST 111. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 111 and which provide practical experience. Upon completion, students should be able to demonstrate an understanding of the universe around them. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural*

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sciences in the A.A. degree program. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

	ATR 112 Intro to Automation			Work/	
		Class	Lab C	linical (Credit
ATR 112	Intro to Automation	2	3	0	3
Prerequisites:	ELN 260				
Corequisites:	None				

This course introduces the basic principles of automated systems and describes the tasks that technicians perform on the job. Topics include the history, development, and current applications of robots and automated systems including their configuration, operation, components, and controls. Upon completion, students should be able to understand the basic concepts of automation and robotic systems.

BIO 094 Concepts of Human Biology 3 2

Prerequisites: None

Corequisites: DRE 098

This course focuses on fundamental concepts of human biology. Topics include terminology, biochemistry, cell biology, tissues, body systems, and other related topics. Upon completion, students should be able to demonstrate preparedness for college-level anatomy and physiology courses.

BIO 110 **Principles of Biology**

Prerequisites: DRE 098 or ENG 090 and RED 090, DMA 010-050 or MAT 070 Corequisites: None

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

BIO 111 General Biology I

Prerequisites: DRE 098 or ENG 090 and RED 090, DMA 010-050 or MAT 070 Corequisites: None

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabolism and energy transformation, genetics, evolution, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

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BIO112General Biology II3304Prerequisites:BIO 111

Corequisites: None

This course is a continuation of BIO 111. Emphasis is placed on organisms, evolution, biodiversity, plant and animal systems, ecology, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in the A.S. degree program. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

BIO 120 Introductory Botany

Prerequisites: BIO 110 or BIO 111

Corequisites: None

This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non-seed plants.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for natural sciences in A.A., A.S., and A.A.S. degree programs.

BIO 130 Introductory Zoology

Prerequisites: BIO 110 or BIO 111

Corequisites: None

This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is placed on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function including comparative systems of selected groups.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for natural sciences in A.A., A.S., and A.A.S. degree programs.

BIO 140 Environmental Biology 3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090, DMA 010-050 or MAT 070 Corequisites: BIO 140A

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for natural sciences in A.A., A.S., and A.A.S. degree programs.

			Work/ Class Lab Clinical Cr			Credit
		Environmental Biology Lab	0	3	0	1
Prerec	quisites:	None				

Corequisites: BIO 140

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for natural sciences in A.A., A.S., and A.A.S. degree programs.

BIO 163 **Basic Anatomy and Physiology** 5 4 2 0 Prerequisites: DRE 098 or ENG 090 and RED 090, DMA 010-050 or MAT 070 Corequisites: None

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

BIO 165 Anatomy and Physiology I 3 Prerequisites: DRE 098 or ENG 090 and RED 090, DMA 010-050 or MAT 070

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Corequisites: None

This course is the first of a two-course sequence which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

BIO166Anatomy and Physiology II3304Prerequisites:BIO 165

Corequisites: None

This course is the second in a two-course sequence which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and the interrelationships of all body systems.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

BIO 275 Microbiology

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Prerequisites: BIO 110, BIO 111, BIO 163, BIO 165 or BIO 168 Corequisites: None

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

BPR 111 Print Reading

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Prerequisites: DMA 010-020

Corequisites: None

This course introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic prints and visualize the features of a part or system.

BPR121Blueprint Reading: Mechanical120

Prerequisites: BPR 111

Corequisites: None

This course covers the interpretation of intermediate blueprints. Topics include tolerancing, auxiliary views, sectional views, and assembly drawings. Upon completion, students should be able to read and interpret a mechanical working drawing.

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	Class		Work/ linical (Credit
BPR 130 Blueprint Reading-Construction Prerequisites: None Corequisites: None This course covers the interpretation of blueprints and specific construction trades. Emphasis is placed on interpretation of de elevations, and schedules. Upon completion, students should be construction blueprints.	etails fo	or found	lations,	floor plans,
BTC 181 Basic Lab Techniques Prerequisites: None Corequisites: None This course introduces the basic skills and knowledge neces laboratory. Emphasis is placed on good manufacturing practice equipment operation and maintenance following standard opera students should be able to prepare and perform basic labor solutions, and equipment according to prescribed protocols.	sary in s, safety ing pro	y, soluti cedures	ogical o on prep s. Upon	aration, and completion,
BUS110Introduction to BusinessPrerequisites:DRE 097	3	0	0	3

Corequisites: DRE 098

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

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BUS 115 Business Law I

Prerequisites: DRE 097 Corequisites: DRE 098

This course introduces the ethics and legal framework of business. Emphasis is placed on contracts, negotiable instruments, Uniform Commercial Code, and the working of the court systems. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

BUS 116 Business Law II

Prerequisites: BUS 115

Corequisites: None

This course continues the study of ethics and business law. Emphasis is placed on bailments, sales, risk-bearing, forms of business ownership, and copyrights. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations.

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BUS 121 **Business Mathematics**

Prerequisites: DMA 010-040 or MAT 070, DRE 097

Corequisites: DRE 098

This course covers fundamental mathematical operations and their application to business problems. Topics include payroll, pricing, interest and discount, commission, taxes, and other pertinent uses of mathematics in the field of business. Upon completion, students should be able to apply mathematical concepts to business.

Personal Finance BUS 125

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Prerequisites: DMA 010-030 or MAT 060, DRE 098 or RED 090 Corequisites: None

This course provides a study of individual and family financial decisions. Emphasis is placed on building useful skills in buying, managing finances, increasing resources, and coping with current economic conditions. Upon completion, students should be able to develop a personal financial plan.

BUS	137	Principles of Management	3	0	0	
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Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

BUS 139 **Entrepreneurship I**

Prerequisites: None

Corequisites: None

This course provides an introduction to the principles of entrepreneurship. Topics include selfanalysis of entrepreneurship readiness, the role of entrepreneur in economic development, legal problems, organizational structure, sources of financing, budgeting, and cash flow. Upon completion, students should have an understanding of the entrepreneurial process and issues faced by entrepreneurs.

BUS 153 Human Resource Management 3 0 0 3

Prerequisites: DRE 098 or RED 090

Corequisites: None

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns.

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BUS228Business Statistics2203Prerequisites:MAT 143

Corequisites: None

This course introduces the use of statistical methods and tools in evaluating research data for business applications. Emphasis is placed on basic probability, measures of spread and dispersion, central tendency, sampling, regression analysis, and inductive inference. Upon completion, students should be able to apply statistical problem solving to business.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

BUS230Small Business Management3003

Prerequisites: DRE 098 or RED 090

Corequisites: None

This course introduces the challenges of entrepreneurship including the startup and operation of a small business. Topics include market research techniques, feasibility studies, site analysis, financing alternatives, and managerial decision making. Upon completion, students should be able to develop a small business plan.

BUS	239	Business Applications Seminar	1	2	0	2
Prerequ	isites:	ACC 120, BUS 115, BUS 137, ECO 151 or 251	or 252,	MKT 1	20	
Corequi	isites:	None				

This course is designed as a capstone course for Business Administration majors. Emphasis is placed on decision making in the areas of management, marketing, production, purchasing, and finance. Upon completion, students should be able to apply the techniques, processes, and vital professional skills needed in the work place.

BUS260Business Communication30

Prerequisites: ENG 111

Corequisites: None

This course is designed to develop skills in writing business communications. Emphasis is placed on business reports, correspondence, and professional presentations. Upon completion, students should be able to communicate effectively in the workplace.

BUS261Diversity in Management3003

Prerequisites: DRE 098 or RED 090

Corequisites: None

This course is designed to help managers recognize the need to incorporate diversity into all phases of organizational management. Topics include self-evaluation, management, sexual harassment, workforce diversity, dual careers, role conflict, and communication issues. Upon completion, students should be able to implement solutions that minimize policies, attitudes, and stereotypical behaviors that block effective team building.

			Work/ Class Lab Clinical Credit					
	280 uisites:	REAL Small Business	4	0	0	4		
1	uisites:							

This course introduces hands-on techniques and procedures for planning and opening a small business, including the personal qualities needed for entrepreneurship. Emphasis is placed on market research, finance, time management, and day-to-day activities of owning/operating a small business. Upon completion, students should be able to write and implement a viable business plan and seek funding.

CET 111Computer Upgrade/Repair I2303

Prerequisites: None

Corequisites: None

This course covers repairing, servicing, and upgrading computers and peripherals in preparation for industry certification. Topics include CPU/memory/bus identification, disk subsystems, hardware/software installation/configuration, common device drivers, data recovery, system maintenance, and other related topics. Upon completion, students should be able to safely repair and/or upgrade computer systems to perform within specifications.

CET 222Computer Architecture200

Prerequisites: CET 111

Corequisites: None

This course introduces the organization and design philosophy of computer systems with respect to resource management, throughput, and operating system interaction. Topics include instruction sets, registers, data types, memory management, virtual memory, cache, storage management, multiprocessing, and pipelining. Upon completion, students should be able to evaluate system hardware and resources for installation and configuration purposes.

CHI 111 Elementary Chinese I

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Prerequisites: None

Corequisites: None

This course introduces the fundamental elements of the Chinese language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Chinese and demonstrate cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A. and A.S. degree programs.

CHI 112 Elementary Chinese II

3 0 0

Prerequisites: CHI 111

Corequisites: CHI 182

This course includes the basic fundamentals of the Chinese language within a cultural context of the Chinese people and its history. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, student should be able to comprehend and respond with increasing proficiency to spoken and written Chinese and demonstrate further cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A. and A.S. degree programs.

CHI 181 Chinese Lab I

0 2 0 1

Prerequisites: None Corequisites: None

This course provides an opportunity to enhance acquisition of the fundamental elements of the Chinese language. Emphasis is placed on the progressive development of basic learning, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Chinese and demonstrate cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

CHI 182 Chinese Lab II

0 2 0 1

Prerequisites: CHI 181

Corequisites: CHI 112

This course provides an opportunity to enhance acquisition of the fundamental elements of the Chinese language. Emphasis is placed on the progressive development of basic learning, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Chinese and demonstrate cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

CHM 131 Introduction to Chemistry

3 0 0 3

Prerequisites: DMA 010-060 or MAT 070, DRE 097 or RED 090

Corequisites: CHM 131A or DRE 098

This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for natural sciences in A.A., A.S., and A.A.S. degree programs.

	Work/					
	Class Lab Clinical Credit					
CHM 131A Introduction to Chemistry Lab	0	3	0	1		
Prerequisites: None						

Corequisites: CHM 131

This course is a laboratory to accompany CHM 131. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 131. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 131. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been*

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for natural sciences in A.A., A.S., and A.A.S. degree programs.

CHM 132 Organic and Biochemistry 3 3 0 4

Prerequisites: CHM 131 & 131A, or CHM 151

Corequisites: None

This course provides a survey of major functional classes of compounds in organic and biochemistry. Topics include structure, properties, and reactions of the major organic and biological molecules and basic principles of metabolism. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts needed to pursue studies in related professional fields.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for natural sciences in A.A., A.S., and A.A.S. degree programs.

CHM 151 General Chemistry I 3 3 0 4

Prerequisites: DRE 098 or ENG 090 and RED 090, DMA 010-060 or MAT 070 Corequisites: None

This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts as needed in CHM 152. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.*

CHM 152 General Chemistry II

3 3 0 4

Prerequisites: CHM 151

Corequisites: None

This course provides a continuation of the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in the A.S. degree program. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

				Work/	
		Class	Lab C	linical (Credit
CHM 251	Organic Chemistry I	3	3	0	4
Prerequisites:	CHM 152				
Corequisites:	None				

This course provides a systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers; further topics include isomerization, sterochemistry, and spectroscopy. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of covered organic topics as needed in CHM 252. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.*

CHM 252 Organic Chemistry II

3 3 0 4

Prerequisites: CHM 251

Corequisites: None

This course provides continuation of the systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of aromatics, aldehydes, ketones, carboxylic acids and derivatives, amines and heterocyclics; multi-step synthesis will be emphasized. Upon completion, students should be able to demonstrate an understanding of organic concepts as needed to pursue further study in chemistry and related professional fields.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

CIS 070 Fundamentals of Computing

0 2 0

Prerequisites: None

Corequisites: None

This course covers fundamental functions and operations of the computer. Topics include identification of components, overview of operating systems, and other basic computer operations. Upon completion, students should be able to operate computers, access files, print documents and perform basic applications operations.

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			Class]		Work/ linical (Credit
CIS	110	Introduction to Computers	2	2	0	3
Prerec	quisites:	DRE 097				

Corequisites: DRE 098

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for mathematics in A.A. and A.S. degree programs.

CIS 111 **Basic PC Literacy**

0 2 1 2

Prerequisites: DRE 097

Corequisites: DRE 098

This course provides an overview of computer concepts. Emphasis is placed on the use of personal computers and software applications for personal and fundamental workplace use. Upon completion, students should be able to demonstrate basic personal computer skills. *Note: Students wishing to transfer to another institution should carefully consider taking CIS*

110 instead of CIS 111.

CIS 115 Introduction to Programming & Logic Prerequisites: DMA 010-040 or MAT 070, DRE 097 2 3 0 3

Corequisites: DRE 098

This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to manage files with operating system commands, use top-down algorithm design, and implement algorithmic solutions in a programming language.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for mathematics in A.A. and A.S. degree programs.

CJC 111 **Introduction to Criminal Justice** 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to* satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

Work/ Class Lab Clinical Credit

CIC 112	Criminology	3	0	0	3
CJC 112	Criminology	5	U	U	5
Prerequisites:	None				

Corequisites: None

This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response.

CJC 113 Juvenile Justice

Prerequisites: None

Corequisites: DRE 098

This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition.

CJC 131 Criminal Law

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Prerequisites: None

Corequisites: DRE 098

This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements.

CJC 132 Court Procedure & Evidence 3 0 0 3

Prerequisites: None

Corequisites: DRE 098

This course covers judicial structure/process/procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence.

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CJC 141 **Corrections**

Prerequisites: None

Corequisites: None

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

CJC 160 **Terrorism: Underlying Issues** 3 0

Prerequisites: None

Corequisites: DRE 098

This course identifies the fundamental reasons why America is a target for terrorists, covering various domestic/international terrorist groups and ideologies from a historical aspect. Emphasis is placed upon recognition of terrorist crime scene; weapons of mass destruction; chemical, biological, and nuclear terrorism; and planning considerations involving threat assessments. Upon completion, students should be able to identify and discuss the methods used in terrorists' activities and complete a threat assessment for terrorists' incidents.

CJC 212 **Ethics & Community Relations**

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Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.

Organization & Administration 3 0 0 CJC 215

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces the components and functions of organization and administration as it applies to the agencies of the criminal justice system. Topics include operations/functions of organizations; recruiting, training, and retention of personnel; funding and budgeting; communications; span of control and discretion; and other related topics. Upon completion, students should be able to identify and discuss the basic components and functions of a criminal justice organization and its administrative operations.

CJC 221 **Investigative Principles** 3 2 0 4

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation.

CJC 222 Criminalistics

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence.

CJC 231 **Constitutional Law**

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Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts.

CJC 233 **Correctional Law**

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course introduces statutory/case law pertinent to correctional concepts, facilities, and related practices. Topics include examination of major legal issues encompassing incarceration, probation, parole, restitution, pardon, restoration of rights, and other related topics. Upon completion, students should be able to identify/discuss legal issues which directly affect correctional systems and personnel.

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COM 110 Introduction to Communication 3 0 0 3 Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on communication theories and techniques used in interpersonal, group, public, intercultural, and mass communication situations. Upon completion, students should be able to explain and illustrate the forms and purposes of human communication in a variety of contexts.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for communications in A.A.S. degree programs.

Interpersonal Communication 3 0 COM 120 0

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, selfdisclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for communications in A.A.S. degree programs.

Public Speaking COM 231

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for communications in A.A. and A.S. degree programs. This course has been approved to meet the communications requirement in A.A.S. degree programs.

CSC 139 Visual BASIC Programming

Prerequisites: CIS 115

Corequisites: None

This course introduces computer programming using the Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming

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methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

CSC 151 JAVA Programming

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Prerequisites: CIS 115

Corequisites: None

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion students should be able to design, code, test, debug JAVA language programs.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

CSC 153 C# Programming

Prerequisites: CIS 115

Corequisites: None

This course introduces computer programming using the C# programming language with objectoriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment at the beginning level.

CTI 110 Web, Pgm, & DB Foundation 2 2 0

Prerequisites: DMA 010-040 or MAT 070, DRE 097 Corequisites: DRE 098

This course covers the introduction of the tools and resources available to students in programming, mark-up language and services on the Internet. Topics include standard mark-up language Internet services, creating web pages, using search engines, file transfer programs; and database design and creation with DBMS products. Upon completion students should be able to demonstrate knowledge of programming tools, deploy a web-site with mark-up tools, and create a simple database table.

CTI	120	Network & Security Foundation	2	2	0	3
Prereq	uisites:	DMA 010-040 or MAT 070, DRE 097				

Corequisites: DRE 098

This course introduces students to the Network concepts, including networking terminology and protocols, local and wide area networks, and network standards. Emphasis is placed on securing information systems and the various implementation policies. Upon completion, students should be able to perform basic tasks related to networking mathematics, terminology, media and protocols.

CTS115Info Systems Business Concepts3003D100.100.100.100.0703

Prerequisites: DMA 010-040 or MAT 070, DRE 097

Corequisites: DRE 098

The course introduces the role of IT in managing business processes and the need for business process and IT alignment. Emphasis is placed on industry need for understanding business challenges and developing/managing information systems to contribute to the decision making process based on these challenges. Upon completion, students should be able to demonstrate knowledge of the 'hybrid business manager' and the potential offered by new technology and systems.

Note: This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.

CTS 120 Hardware/Software Support 2 3 0 3

Prerequisites: DMA 010-040 or MAT 070, DRE 097

Corequisites: DRE 098

This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers.

CTS 130 Spreadsheet

Prerequisites: DMA 010-040 or MAT 070, DRE 097 Corequisites: DRE 098

This course introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts.

CTS 155 Tech Support Functions

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Prerequisites: DMA 010-040 or MAT 070, DRE 097 Corequisites: DRE 098

This course introduces a variety of diagnostic and instructional tools that are used to evaluate the performance of technical support technologies. Emphasis is placed on technical support management techniques and support technologies. Upon completion, students should be able to determine the best technologies to support and solve actual technical support problems.

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Work/ Class Lab Clinical Credit

CTS220Advanced Hard/Software Support2303Prerequisites:CTS 120

Corequisites: None

This course provides advanced knowledge and competencies in hardware and operating system technologies for computer technicians to support personal computers. Emphasis is placed on: configuring and upgrading; diagnosis and troubleshooting; as well as preventive maintenance of hardware and system software. Upon completion, students should be able to install, configure, diagnose, perform preventive maintenance, and maintain basic networking on personal computers.

CTS 285 Systems Analysis & Design 3 0 0 3

Prerequisites: CIS 115

Corequisites: None

This course introduces established and evolving methodologies for the analysis, design, and development of an information system. Emphasis is placed on system characteristics, managing projects, prototyping, CASE/OOM tools, and systems development life cycle phases. Upon completion, students should be able to analyze a problem and design an appropriate solution using a combination of tools and techniques.

CTS 289 System Support Project 1 4 0

Prerequisites: CTI 110, CTI 120, CTS 115, and permission of IT lead instructor Corequisites: None

This course provides an opportunity to complete a significant support project with minimal instructor assistance. Emphasis is placed on written and oral communication skills, project definition, documentation, installation, testing, presentation, and user training. Upon completion, students should be able to complete a project from the definition phase through implementation.

DBA 110 Database Concepts

Prerequisites: CIS 110, CIS 111, CTI 110, or OST 136 Corequisites: None

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms.

DBA 120 Database Programming I

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Prerequisites: CTI 110

Corequisites: None

This course is designed to develop SQL programming proficiency. Emphasis is placed on data definition, data manipulation, and data control statements as well as on report generation. Upon completion, students should be able to write programs which create, update, and produce reports.

DFT 110Basic Drafting1202Prerequisites:None

Corequisites: None

This course introduces basic drafting skills, terminology, and applications. Topics include basic mathematics; sketching; introduction to CAD, ANSI, and ISO drafting standards; and a survey of various drafting applications. Upon completion, students should be able to perform basic calculations for CAD drafting, sketch drawings using appropriate standards, and recognize drawings from different drafting fields.

DFT 111	Technical Drafting I	1	3	0	2
Prerequisites:	DMA 010-030 or MAT 060, DRE 098 or RED 0	90			

Corequisites: None

This course introduces basic drafting skills, equipment, and applications. Topics include sketching, measurements, lettering, dimensioning, geometric construction, orthographic projections and pictorials drawings, sections, and auxiliary views. Upon completion, students should be able to understand and apply basic drawing principles and practices.

DFT 115 Architectural Drafting 1 2 0

Prerequisites: DFT 151

Corequisites: None

This course introduces basic drafting practices used in residential and light commercial design. Topics include floor plans, foundations, details, electrical components, elevations, and dimensioning practice. Upon completion, students should be able to complete a set of working drawings for a simple structure.

DFT	151	Computer-Aided Drafting I	2	3	0	3
	101	Compater mater Dratting I	-	•	v	•

Prerequisites: DMA 010-030 or MAT 060, DRE 097 or RED 080 Corequisites: None

This course introduces CAD software as a drawing tool. Topics include drawing, editing, file management, and plotting. Upon completion, students should be able to produce and plot a CAD drawing.

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DFT 152 Computer-Aided Drafting II

Prerequisites: DFT 151

Corequisites: None

This course introduces extended CAD applications. Emphasis is placed upon intermediate applications of CAD skills. Upon completion, students should be able to use extended CAD applications to generate and manage drawings.

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	Class	Lab C	Work/ linical (Credit
DFT 153 Computer-Aided Drafting III Prerequisites: DFT 151	2	3	0	3
Corequisites: None This course introduces advanced CAD applications. E applications of CAD skills. Upon completion, students sh applications to generate and manage data.	-	-	-	
DIA 101 Introduction to Dialysis Technology Prerequisites: DMA 010-050, DRE 098	5	6	12	11
Corequisites: None This course introduces the theory and techniques of dialy dialysis, nutritional needs, patient preparation and interaction of the effectiveness and adequacy of dialysis. Upon con- demonstrate beginning theoretical, technical, and clinical techniques in the dialysis unit.	on, diagnos	tic test tudents	s, and m should	be able to
DIA102Dialysis for Special PopulationsPrerequisites:DIA 101Corequisites:None	5	3	15	11
This course emphasizes the maintenance and use of herr dialysis procedures. Topics include the water treatment syste of clients being treated for acute/chronic renal disease completion, students should be able to demonstrate clinical setting for the patient with specialized dialysis treatment pla	em, types of es, and re- skills nece	contai nal ph	minants armaco	, monitoring logy. Upon
DIA 103 Ethical/Legal Issues in Dialysis Prerequisites: DIA 102	3	0	0	3
Corequisites: None This course provides the theoretical application of the princip	ples and pra	actices	involve	d in the care

This course provides the theoretical application of the principles and practices involved in the care of the complex renal client. Topics include ethical/legal aspects in dialysis, contracts, professional liability, malpractice, health insurance, and choice to terminate therapy. Upon completion, student should be able to demonstrate a basic knowledge of ethical/legal issues required in a client care setting.

DIA 104 Care-Complex Renal Client 1 0 12 5

Prerequisites: DIA 102

Corequisites: None

This course provides the clinical opportunity for care of the complex renal client. Emphasis is placed on gaining independence in care techniques and documentation. Upon completion, students should be able to care for a variety of renal clients and manage time effectively for multiple client assignments.

DMA 010 Operations with Integers 0.75 0.50 0 1 Prerequisites: None

Corequisites: None

This course provides a conceptual study of integers and integer operations. Topics include integers, absolute value, exponents, square roots, perimeter and area of basic geometric figures, Pythagorean Theorem, and use of the correct order of operations. Upon completion, students should be able to demonstrate an understanding of pertinent concepts and principles and apply this knowledge in the evaluation of expressions.

DMA 020	Fractions and Decimals	0.75	0.50	0	1
Prerequisites:	DMA 010				
Corequisites:	None				

This course provides a conceptual study of the relationship between fractions and decimals and covers related problems. Topics include application of operations and solving contextual application problems, including determining the circumference and area of circles with the concept of pi. Upon completion, student should be able to demonstrate an understanding of the connections between fractions and decimals.

DMA 030	Propor/Ratio/Rate/Percent	0.75	0.50	0	1
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Prerequisites: DMA 010-020

Corequisites: None

This course provides a conceptual study of the problems that are represented by rates, ratios, percent, and proportions. Topics include rates, ratios, percent, proportion, conversion of English and metric units, and applications of the geometry of similar triangles. Upon completion, students should be able to use their understanding to solve conceptual application problems.

DMA 040Express/Lin Equat/InequalPrerequisites:DMA 010-030 or MAT 060

Corequisites: None

The course provides a conceptual study of problems involving linear expressions, equations, and inequalities. Emphasis is placed on solving contextual application problems. Upon completion, students should be able to distinguish between simplifying expressions and solving equations and apply this knowledge to problems involving linear expressions, equations, and inequalities.

Graphs/Equations of Lines DMA 050

0.75 0.50 0 1

0.50 0

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0.75

Prerequisites: DMA 010-040 or DMA 040 and MAT 060 Corequisites: None

This course provides a conceptual study of problems involving graphic and algebraic representations of lines. Topics include slope, equations of lines, interpretation of basic graphs, and linear modeling. Upon completion, students should be able to solve contextual application problems and represent real-world situations as linear equations in two variables.

Work/ Class Lab Clinical Credit

0.50 0

0.75

DMA 060Polynomial/Quadratic Appl0.750.5001

Prerequisites: DMA 010-050 or MAT 060 and MAT 070

Corequisites: None

This course provides a conceptual study of problems involving graphic and algebraic representations of quadratics. Topics include basic polynomial operations, factoring polynomials, and solving polynomial equations by means of factoring. Upon completion, students should be able to find algebraic solutions to contextual problems with quadratic applications.

DMA 070 Rational/Express/Equation

Prerequisites: DMA 010-060 or MAT 060 and MAT 070 Corequisites: None

This course provides a conceptual study of problems involving graphic and algebraic representations of rational equations. Topics include simplifying and performing operations with rational expressions and questions, understanding the domain, and determining the reasonableness of an answer. Upon completion, students should be able to find algebraic solutions to contextual problems with rational applications.

DMA 080Radical Express/Equations0.750.5001

Prerequisites: DMA 010-070 or MAT 060 and MAT 070 Corequisites: None

This course provides a conceptual study of the manipulation of radicals and the application of radical equations to real-world problems. Topics include simplifying and performing operations with radical expressions and rational exponents, solving equations, and determining the reasonableness of an answer. Upon completion, students should be able to find algebraic solutions to contextual problems with radical applications.

DRA 111 Theatre Appreciation

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Prerequisites: None

Corequisites: None

This course provides a study of the art, craft, and business of the theatre. Emphasis is placed on the audience's appreciation of the work of the playwright, director, actor, designer, producer, and critic. Upon completion, students should be able to demonstrate a vocabulary of theatre terms and to recognize the contributions of various theatre artists.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

			Cl	Work/ Class Lab Clinical Credit			dit
DRE	096	Integrated Reading and Writing	2	2.5	1	0	3
Prerequ	isites:	None					

Corequisites: CIS 070

This course is designed to develop proficiency in specific integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics and primarily taught at the introductory level using texts primarily in a Lexile TM range of 960 to 1115. Upon completion, students should be able to apply those skills toward understanding a variety of academic and career-related texts and composing effective paragraphs.

DRE 097 Integrated Reading Writing II 2.5 1 0 3

Prerequisites: DRE 096

Corequisites: CIS 070

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught at a reinforcement level using texts primarily in a Lexile TM range of 1070 to 1220. Upon completion, students should be able demonstrate and apply those skills toward understanding a variety of complex academic and career texts and composing essays incorporating relevant, valid evidence.

DRE 098	Integrated Reading Writing III	2.5 1 0 3
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Prerequisites: DRE 097

Corequisites: CIS 070

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are taught using texts primarily in a Lexile [™] range of 1185 to 1385. Upon completion, students should be able demonstrate and apply those skills toward understanding a variety of texts at the career and college ready level and toward composing a documented essays.

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DRE 099 Integrated Reading Writing III

Prerequisites: DRE 097

Corequisites: ENG 111

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies by complementing, supporting and reinforcing material covered in ENG 111. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught using texts primarily in the Lexile® range of 1185 to 1385. Upon completion, students should be able to apply those skills toward understanding a variety of texts at the career and college ready level and toward composing a documented essay.

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ECO 151 Survey of Economics

3 0 0 3

Prerequisites: DMA 010-020 or MAT 060, DRE 097 or RED 090

Corequisites: DRE 098

This course introduces basic concepts of micro- and macroeconomics. Topics include supply and demand, optimizing economic behavior, prices and wages, money, interest rates, banking system, unemployment, inflation, taxes, government spending, and international trade. Upon completion, students should be able to explain alternative solutions for economic problems faced by private and government sectors.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

ECO 251Principles of Microeconomics3003

Prerequisites: DMA 010-020 or MAT 060, DRE 097 or RED 090 Corequisites: DRE 098

This course introduces economic analysis of individual, business, and industry choices in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for social/behavioral sciences in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

ECO 252 Principles of Macroeconomics 3 0 0 3

Prerequisites: DMA 010-020 or MAT 060, DRE 097 or RED 090 Corequisites: DRE 098

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for social/behavioral science in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

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EDU 114 Intro to Family Childcare

3 0 0

Prerequisites: DMA 010, DMA 020, and DMA 030 or MAT 060

Corequisites: DRE 097

This course introduces the student to family child care home environments with emphasis on standards and developmentally effective approaches for supporting diverse children and families. Topics include standards for quality, curriculum for multiple age groups, authentic assessment methods, business practices, building positive family and community partnerships, and professionalism. Upon completion, students should be able to design a family child care handbook that reflects a healthy, respectful, supportive, and stimulating learning environment.

EDU 119 Intro to Early Childhood Education 4 0 0 4

Prerequisites: None

Corequisites: None

This course introduces the foundations of early childhood education, the diverse educational settings for young children, professionalism and planning intentional developmentally appropriate experiences for each child. Topics include theoretical foundations, national early learning standards, NC Foundations for Early Learning and Development, state regulations, program types, career options, professionalism, ethical conduct, quality inclusive environments, and curriculum responsive to the needs of each child/family. Upon completion, students should be able to design a career/professional development plan, appropriate environments, schedules, and activity plans.

EDU 131 Child, Family, & Community

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Prerequisites: None

Corequisites: DRE 097

This course covers the development of partnerships between culturally, linguistically and ability diverse families, children, schools and communities through the use of evidence-based strategies. Emphasis is placed on developing skills and identifying benefits for establishing, supporting, and maintaining respectful, collaborative relationships between diverse families, programs/schools, and community agencies/resources reflective of the NAEYC Code of Ethical Conduct. Upon completion, students should be able to identify appropriate relationship building strategies between diverse families, children, schools, and communities and demonstrate a variety of communication skills including appropriate use of technology to support every child.

EDU 144 Child Development I

3 0 0

Prerequisites: None

Corequisites: DRE 097

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact

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development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse.

		Class	Work/ Class Lab Clinical Credit				
EDU 145	Child Development II	3	0	0	3		
Prerequisites:	None						
Coroquisitos	DDE 007						

Corequisites: DRE 097

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse.

EDU 146 **Child Guidance**

Prerequisites: None

Corequisites: DRE 097

This course introduces evidence-based strategies to build nurturing relationships with each child by applying principles and practical techniques to facilitate developmentally appropriate guidance. Topics include designing responsive/supportive learning environments, cultural, linguistic and socio-economic influences on behavior, appropriate expectations, the importance of communication with children/families including using technology and the use of formative assessments in establishing intentional strategies for children with unique needs. Upon completion, students should be able to demonstrate direct/indirect strategies to encourage social skills, selfregulation, emotional expression and positive behaviors while recognizing the relationship between children's social, emotional and cognitive development.

Creative Activities EDU 151

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Prerequisites: None

Corequisites: DRE 097

This course introduces developmentally supportive creative learning environments with attention to divergent thinking, creative problem-solving, evidence-based teaching practices, and openended learning materials while applying NC Foundations for Early Learning and Development. Emphasis is placed on observation of process driven learning experiences in art, music, creative movement, dance, and dramatics for every young child age birth through eight, integrated through all domains and academic content. Upon completion, students should be able to examine, create, and adapt developmentally creative learning materials, experiences, and environments for children that are culturally, linguistically, and ability diverse.

			Work/ Class Lab Clinical Credit					
EDU	153	Health, Safety & Nutrition	3	0	0	3		
Prereq	uisites:	None						

Corequisites: DRE 097

This course covers promoting and maintaining the health and well-being of every child. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, health benefits of active play, recognition and reporting of abuse/neglect, and state regulations. Upon completion, students should be able to apply knowledge of NC Foundations for Early Learning and Development for health, safety, nutritional needs and safe learning environments

Social/Emotional/Behavioral Development 0 0 3 EDU 154 3

Prerequisites: EDU 144, EDU 145

Corequisites: DRE 097

This course covers the emotional/social development of children and the causes, expressions, prevention and management of challenging behaviors in all children. Emphasis is placed on caregiver/family/child relationships, positive emotional/social environments, developmental concerns, risk factors, and intervention strategies. Upon completion, students should be able to identify factors influencing emotional/social development, utilizing screening measures, and designing positive behavioral supports.

EDU 158 **Healthy Lifestyles–Youth**

3 3 0 0

Prerequisites: None

Corequisites: DRE 097

This course introduces the topics of health, safety, nutrition, physical activities and environments for the school-age child/youth that promote development, fitness and healthy lifestyles. Topics include the use of physical and nutritional/cooking activities (indoor/outdoor, teacher-directed/youth-directed) appropriate for youth developing typically/atypically; safe/healthy menu planning; safe/healthy environmental design, assessment and supervision. Upon completion, students should be able to plan/facilitate safe/healthy physical and nutritional/cooking activities, discuss safety policies/regulations and identify health/safety/nutritional needs of youth.

Intro to Exceptional Children EDU 161

3 0 0 3

Prerequisites: None

Corequisites: DRE 097

This course covers children with exceptionalities as life long learners within the context of the community, school and family. Emphasis is placed on inclusion, legal, social/political, environmental, and cultural issues relating to the teaching of children with exceptionalities. Upon completion, students should be able to demonstrate knowledge of identification processes, inclusive techniques, and professional practices and attitudes.
EDU162Observation & Assessment in ECE3003Prerequisites:None

Corequisites: DRE 097

This course introduces the research, benefits, goals, and ethical considerations associated with observation and formative assessment in early childhood education. Emphasis is placed on the implementation of multiple observation/assessment strategies including anecdotal records, event samples, rating scales, and portfolios to create appropriate learning experiences. Upon completion, students should be able to practice responsible assessment and effectively use tools to assess the child, teacher practices and indoor and outdoor environments to enhance programming; and explain the importance of assessment partnerships with families and other professionals.

EDU163Classroom Management & Instruction3003

Prerequisites: None

Corequisites: DRE 097

This course examines classroom management and evidence-based instructional strategies that create supportive learning environments to provide developmentally appropriate guidance for school-age populations. Topics include classroom management and organization, teaching strategies, individual student differences and learning styles, ongoing systematic observation, and developmentally appropriate classroom guidance techniques. Upon completion, students should be able to utilize developmentally appropriate behavior management and high quality instructional strategies that enhance the teaching/learning process and promote students' academic success.

EDU173Becoming a Professional in ECE300

Prerequisites: None

Corequisites: DRE 097

This course is an introduction to the early childhood profession. Emphasis is placed on the NAEYC Code of Ethical Conduct, personal growth through involvement in professional organizations, advocacy for children and the profession, and the importance of a professional portfolio. Upon completion, students should be able to identify professional resources and community partners and demonstrate essential advocacy skills while involving oneself in the early childhood field.

EDU 216 Foundations of Education

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Prerequisites: None

Corequisites: DRE 098

This course introduces the American educational system and the teaching profession. Topics include the historical and philosophical influences on education, various perspectives on educational issues, and experiences in K-12 classrooms. Upon completion, students should be able to reflect on classroom observations, analyze the different educational approaches, including classical/traditional and progressive, and have knowledge of the various roles of educational systems at the federal, state and local level.

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EDU221Children with Exceptionalities3003Prerequisites:EDU 144, EDU 145

Corequisites: DRE 098

This course covers atypical patterns of child development, inclusive/diverse settings, evidencedbased educational/family plans, differentiated instruction, adaptive materials, and assistive technology. Emphasis is placed on the characteristics of exceptionalities and delays, early intervention/special education, transitions, observation, developmental screening, formative assessment of children, and collaborating with families and community partners. Upon completion, students should be able to recognize diverse abilities, describe the referral process, identify community resources, explain the importance of collaboration with families/professionals, and develop appropriate strategies/adaptations to support children in all environments with best practices as defined by laws, policies and the NC Foundations for Early Learning and Development.

EDU 223	Specific Learning Disabilities	3	0	0	3
Prerequisites:	EDU 144, EDU 145				

Corequisites: DRE 098

This course provides a comprehensive study of characteristics, alternative assessments, teaching strategies, placement options, inclusion, and family intervention for children with specific learning disabilities. Topics include causes, assessment instruments, learning strategies, and collaborative/inclusion methods for children with specific learning disabilities. Upon completion, students should be able to assist in identifying, assessing, and providing educational interventions for children with specific learning disabilities.

EDU 234 Infants, Toddlers, & Twos

3 0 0 3

Prerequisites: EDU 119

Corequisites: DRE 098

This course covers the development of high-quality, individualized, responsive/engaging relationships and experiences for infants, toddlers, and twos. Emphasis is placed on typical and atypical child development, positive early learning experiences, supporting and engaging diverse families, providing safe, warm and nurturing interactions, and the application of the NC Foundations for Early Learning and Development. Upon completion, students should be able to demonstrate responsive planning, respectful relationships and exposure to a variety of developmentally appropriate experiences/materials that support a foundation for healthy development and growth of culturally, linguistically and ability diverse children birth to 36 months.

EDU235School-Age Development & Program3003

Prerequisites: None

Corequisites: DRE 098

This course includes developmentally appropriate practices in group settings for school-age children. Emphasis is placed on principles of development, environmental planning, and positive guidance techniques and program development. Upon completion, students should be able to

discuss developmental principles for culturally, linguistically, and ability diverse children ages five to twelve and plan and implement developmentally appropriate programs and activities.

	Class	Work/ Class Lab Clinical Cred					
EDU 243 Learning Theory	3	0	0	3			
Prerequisites: None							
Corequisites: DRE 098							

This course provides lateral entry teachers an introduction to learning theory, various styles of learning, and motivational factors involved in the learning process. Emphasis is placed on the development of cognitive skills using the eight types of intelligence and applying these to practical classroom situations. Upon completion, students should be able to describe theories and styles of learning and discuss the relationship between different types of intelligence to learning motivation.

EDU 244 Human Growth/Development

3 0 0 3

Prerequisites: None

Corequisites: DRE 098

This course introduces lateral entry teachers to theories and ages and stages related to human growth and development from birth through adolescence. Emphasis is placed on development through the stages of a child's life in the areas of physical, emotional, social, intellectual, and moral development. Upon completion, students should be able to identify and describe milestones of each stage in all areas of development and discuss factors that influence growth.

EDU 245 Policies and Procedures

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Prerequisites: None

Corequisites: DRE 098

This course is designed to introduce new lateral entry teachers to the policies and procedures established by the local education agency. Topics include emergency situation procedures, acceptable discipline, chain of command, role of mentors, evaluation procedures, employment requirements, dress codes, and other policies and procedures. Upon completion, students should be able to explain the policies and procedures to students, parents, or others and discuss the purpose of each policy category.

EDU 247 Sensory & Physical Disabilities

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Prerequisites: EDU 144, EDU 145

Corequisites: DRE 098

This course covers characteristics, intervention strategies, assistive technologies, and inclusive practices for children with sensory and physical disabilities. Topics include inclusive placement options, utilization of support services, other health impairments and family involvement for children with sensory and physical disabilities. Upon completion, students should be able to identify and utilize intervention strategies and service delivery options for those specific disabilities.

EDU248Developmental Delays3003

Prerequisites: EDU 144, EDU 145

Corequisites: DRE 098

This course covers the causes and assessment of developmental delays and individualized instruction and curriculum for children with developmental delays. Emphasis is placed on definition, characteristics, assessment, educational strategies, inclusion, family involvement, and services for children with developmental delays. Upon completion, students should be able to identify, assess, and plan educational intervention strategies for children with developmental delays and their families.

EDU 250 Praxis I Preparation	1	0	0	1
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Prerequisites: None

Corequisites: DRE 098

This course is designed to prepare potential teachers for the PRAXIS I exam that is necessary to enter the field of education. Emphasis is placed on content specifications of the PRAXIS I exam, study skills and simulated examinations. Upon completion, students should be able to demonstrate an understanding of the content necessary for successful completion of the PRAXIS I exam.

EDU 251 Exploration Activities 3 0 0

Prerequisites: None

Corequisites: DRE 098

This course covers fundamental concepts in the content areas of science, technology, engineering, math and social studies through investigative experiences. Emphasis is placed on exploring fundamental concepts, developmentally appropriate scope and sequence, and teaching strategies to engage each child in the discovery approach. Upon completion, students should be able to understand major concepts in each content area and implement appropriate experiences for young children.

EDU252Math & Science Activities300

Prerequisites: None

Corequisites: DRE 098

This course introduces discovery experiences in math and science. Topics include concepts, facts, phenomena, and skills in each area. Upon completion, student should be able to identify, plan, select materials and equipment, and implement and evaluate developmentally appropriate curriculum materials.

EDU 256 Instructional Strategies/Social Studies 2 2 0 3

Prerequisites: None

Corequisites: DRE 098

This course covers objectives, content, materials, and instructional approaches to social studies. Topics include the integration of history, geography, economics, and governmental materials; research/study techniques; and critical thinking. Upon completion, students should be able to

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assess, plan, implement, and evaluate developmentally appropriate experiences as it relates to the NC Standard Course of Study.

	Work/ Class Lab Clinical Credit						
EDU 259 Curriculum Planning	3	0	0	3			
Prerequisites: EDU 119							
Corequisites: DRE 098							

This course is designed to focus on using content knowledge to build developmentally effective approaches for culturally/linguistically/ability diverse young children. Topics include components of curriculum, a variety of curriculum models, authentic observation and assessment, and planning developmentally appropriate experiences aligned with the NC Foundations for Early Learning and Development. Upon completion, students should be able to understand, evaluate, and use curriculum to plan for individual/group needs.

EDU 261 Early Childhood Administration I 3 0 0 3

Prerequisites: None

Corequisites: DRE 098, EDU 119

This course introduces principles and practices essential to preparing and supporting child care administrators. Topics include program philosophy, policies and procedures, NC Child Care Law and Rules, business planning, personnel and fiscal management, and NAEYC Code of Ethical Conduct Supplement for Early Childhood Program Administration. Upon completion, students should be able to articulate a developmentally appropriate program philosophy, locate current state licensing regulations, analyze a business plan and examine comprehensive program policies and procedures.

EDU 262 Early Childhood Administration II 3 0 0 3

Prerequisites: DRE-098, EDU-119 and EDU 261

Corequisites: None

This course focuses on advocacy/leadership, public relations/community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs.

EDU 263 School-Age Program Administration 2 0 0 2

Prerequisites: None

Corequisites: DRE 098

This course introduces the methods and procedures for development and administration of schoolage programs in the public or proprietary setting. Emphasis is placed on the construction and organization of the physical environment. Upon completion, student should be able to plan, develop and administer a quality school-age program.

		Work/ Class Lab Clinical Credit				
EDU 271 Prerequisites:	Educational Technology None	2	2	0	3	

Corequisites: DRE 098

This course introduces the ethical use of technology to enhance teaching and learning in all educational settings. Emphasis is placed on technology concepts, ethical issues, digital citizenship, instructional strategies, assistive technology, and the use of technology for professional development and communication. Upon completion, students should be able to discuss technology concepts, ethically use a variety of technology resources, demonstrate appropriate technology skills in educational environments, and identify assistive technology.

EDU 275 **Effective Teacher Training** 2 0 0 2

Prerequisites: None

Corequisites: DRE 098

This course provides specialized training using an experienced-based approach to learning. Topics include instructional preparation and presentation, student interaction, time management, learning expectations, evaluation, and curriculum principles and planning. Upon completion, students should be able to prepare and present a six-step lesson plan and demonstrate ways to improve students' time-on-task.

EDU 280 Language & Literacy Experiences 3 0 0 3

Prerequisites: None

Corequisites: DRE 098

This course provides evidence-based strategies for enhancing language and literacy experiences that align with NC Foundations for Early Learning and Development. Topics include developmental sequences for children's emergent receptive and expressive language, print concepts, appropriate observations/assessments, literacy enriched environments, quality selection of diverse literature, interactive media, and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate language and literacy experiences for children who are culturally, linguistically and ability diverse.

Instructional Strategies/Reading & Writing 2 2 0 3 EDU 281

Prerequisites: None

Corequisites: DRE 098

This course covers concepts, resources, and methods for teaching reading and writing to elementary through middle-grade children. Topics include the importance of literacy, learning styles, skills assessment, various reading and writing approaches and instructional strategies. Upon completion, students should be able to assess, plan, implement and evaluate school-age literacy experiences as related to the North Carolina Standard Course of Study.

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Work/	
Class Lab Clinical (Credit

EDU282Early Childhood Literature3003Prerequisites:None

Corequisites: DRE 098

This course covers the history, selection, and integration of literature and language in the early childhood curriculum. Topics include the history and selection of developmentally appropriate children's literature and the use of books and other media to enhance language and literacy in the classroom. Upon completion, students should be able to select appropriate books for storytelling, reading aloud, puppetry, flannel board use, and other techniques.

EDU284Early Child Capstone Practices1904Prerequisites:EDU 119, EDU 144, EDU 145, EDU 146, EDU 151

Corequisites: DRE 098

This course is designed to allow students to demonstrate acquired skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/engaging families; and modeling reflective and professional practices based on national and state guidelines. Upon completion, students should be able to apply NC Foundations for Early Learning and Development to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors, including the use of appropriate technology, as indicated by assignments and onsite faculty assessments.

EDU285Internship Experiences-School Age190Prerequisites:EDU 144, EDU 145, EDU 163, EDU 216

Corequisites: DRE 098

This course is designed to allow students to demonstrate acquired skills in a quality public or private school environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/engaging families; and modeling reflective and professional practices based on national and state guidelines. Upon completion, students should be able to demonstrate developmentally appropriate lesson plans/assessments, appropriate guidance techniques, ethical/professional behaviors including the use of appropriate technology, as indicated by assignments and onsite faculty visits.

EDU 289 Advanced Issues/School Age

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Prerequisites: None

Corequisites: DRE 098

This course covers advanced topics and issues that relate to school-age programs. Emphasis is placed on current advocacy issues, emerging technology, professional growth, ethics, and organizations for providers/teachers working with school-age populations. Upon completion, students should be able to list, discuss, and explain advanced current topics and issues surrounding school-aged populations.

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EGR 150Introduction to Engineering12Prerequisites:None

Corequisites: None

This course is an overview of the engineering profession. Topics include goal setting and career assessment, ethics, public safety, the engineering method and design process, written and oral communication, interpersonal skills and team building, and computer applications. Upon completion, students should be able to understand the engineering process, the engineering profession, and utilize college resources to meet their educational goals.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A., A.E., and A.S. degree programs.

EGR 250 Statics/Strength of Materials

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Prerequisites: MAT 171

Corequisites: None

This course includes vector analysis, equilibrium of force systems, friction, sectional properties, stress/strain, and deformation. Topics include resultants and components of forces, moments and couples, free-body diagrams, shear and moment diagrams, trusses, frames, beams, columns, connections, and combined stresses. Upon completion, students should be able to analyze simple structures.

EGR 285 Design Project

Prerequisites: ELN 133, ELN 260, ELN 131

Corequisites: None

This course provides the opportunity to design an instructor-approved project using previously acquired skills. Emphasis is placed on selection, proposal, design, testing, and documentation of the approved project. Upon completion, students should be able to present and demonstrate projects.

ELC 112 DC/AC Electricity

Prerequisites: DMA 010

Corequisites: None

This course introduces the fundamental concepts of and computations related to DC/AC electricity. Emphasis is placed on DC/AC circuits, components, operation of test equipment; and other related topics. Upon completion students should be able to construct, verify, and analyze simple DC/AC circuits.

ELC 113 Residential Wiring

Prerequisites: ELC 112

Corequisites: None

This course introduces the care/usage of tools and materials used in residential electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical print reading; planning; layout; and installation of electrical distribution equipment; lighting; overcurrent protection; conductors; branch circuits; and conduits. Upon

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completion, students should be able to properly install conduits, wiring, and electrical distribution equipment associated with residential electrical installations.

			Work/ Class Lab Clinical Credit					
ELC	114	Commercial Wiring	2	6	0	4		
Prereq	uisites:	ELC 113						
Coreq	uisites:	None						

This course provides additional instruction in the application of electrical tools, materials, and test equipment associated with commercial electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with commercial electrical installations.

ELC 117 Motors and Controls

2 6 0

Prerequisites: ELC 112 or ELC 131

Corequisites: None

This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits.

ELC 118National Electric Code1202Prerequisites:NoneCorequisites:DRE 096

This course covers the use of the current National Electrical Code. Topics include the NEC history, wiring methods, overcurrent protection, materials, and other related topics. Upon completion, students should be able to effectively use the NEC.

ELC 119 NEC Calculations

Prerequisites: DMA 010

Corequisites: None

This course covers branch circuit, feeder, and service calculations. Emphasis is placed on sections of the National Electrical Code related to calculations. Upon completion, students should be able to use appropriate code sections to size wire, conduit, and overcurrent devices for branch circuits, feeders, and service.

ELC 120 Introduction to Wiring

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Prerequisites: None

Corequisites: None

This course is an introduction to wiring concepts for non-electricians. Topics include safety, tools, materials, techniques and terminology associated with electrical wiring. Upon completion, students should be able to use and/or identify wiring tools, materials and procedures at an introductory level.

	Work/ Class Lab Clinical Credit				
ELC 125 Diagrams and Schematics	1	2	0	2	
Prerequisites: None Corequisites: None					
This course covers the interpretation of electrical diagrams, scielectrical applications. Emphasis is placed on reading and in schematics. Upon completion, students should be able to read a schematics.	nterpretir	ng elect	rical dia	grams and	
ELC 128 Intro to PLC	2	3	0	3	
Prerequisites: ELC 112 or ELC 131 Corequisites: None					
Topics include ladder logic diagrams, input/output modules, selection/installation of controllers, and interfacing of co	This course introduces the programmable logic controller (PLC) and its associated applications. Topics include ladder logic diagrams, input/output modules, power supplies, surge protection, selection/installation of controllers, and interfacing of controllers with equipment. Upon completion, students should be able to understand basic PLC systems and create simple programs.				
ELC 131 Circuit Analysis I	3	3	0	4	
Prerequisites: DMA 010-050 or MAT 070 Corequisites: DRE 096					
This course introduces DC and AC electricity with an emphasis		•			
and operation of test equipment. Topics include DC and AC p theorems, components, test equipment operation, circuit simula	-		•		
completion, students should be able to interpret circuit schem					
analyze DC/AC circuits; and properly use test equipment.					
ELC 134 Transformer Applications Prerequisites: ELC 112	1	2	0	2	
Corequisites: None					
This course covers single- and three-phase transform industrial/commercial buildings and machinery. Topics include		plicatio mer pri		found in single- and	
three-phase calculations, and connections. Upon completion, st	udents sl	hould be	e able to	understand	

ELC 213 Instrumentation

3 2 0

Prerequisites: ELC 112 or ELC 131

Corequisites: None

This course covers the fundamentals of instrumentation used in industry. Emphasis is placed on electric, electronic, and other instruments. Upon completion, students should be able to install, maintain, and calibrate instrumentation.

single-and three-phase transformers, make transformer connections, and make calculations.

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	Work/ Class Lab Clinical Credit					
ELN 131 Analog Electronics I Prerequisites: ELC 131	3	3	0	4		
Corequisites: None This course introduces the characteristics and applications on semiconductor devices and circuits. Emphasis is placed on analysis, selection, biasing, and applications. Upon completion, students should be able to construct, analyze, verify, and troubleshoot analog circuits using appropriate techniques and test equipment.						
ELN 132 Analog Electronics II Prerequisites: ELN 131	3	3	0	4		
Corequisites: None This course covers additional applications of analog electronic circuits with an emphasis on analog and mixed signal integrated circuits (IC). Topics include amplification, filtering, oscillation, voltage regulation, and other analog circuits. Upon completion, students should be able to construct, analyze, verify and troubleshoot analog electronic circuits using appropriate techniques and test equipment.						
ELN 133 Digital Electronics Prerequisites: ELC 112 or ELC 131	3	3	0	4		
Corequisites: None This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, medium scale integration (MSI) and large scale integration (LSI) circuits, analog to digital (AD) and digital to analog (DA) conversion, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment.						
ELN 229 Industrial Electronics Prerequisites: ELC 112 or ELC 131 Corequisites: None This course covers semiconductor devices used in industrial app theory, application, and operating characteristics of semicond						

theory, application, and operating characteristics of semiconductor devices. Upon completion, students should be able to construct and/or troubleshoot these devices for proper operation in an industrial electronic circuit.

ELN 231 Industrial Controls

2 3 0 3

Prerequisites: ELC 131

Corequisites: None

This course introduces the fundamental concepts of control of rotating machinery and associated peripheral devices. Topics include rotating machine theory, ladder logic, electromechanical and solid state relays, motor controls, pilot devices, three-phase power systems, and other related topics. Upon completion, students should be able to interpret schematics and demonstrate an understanding of electromechanical and electronic control of rotating machinery.

			Work/ Class Lab Clinical Credi			Credit
ELN	232	Introduction to Microprocessors	3	3	0	4
Prereq	uisites:	ELN 133				
Coreq	uisites:	None				
and in I/O sy should	put/outj stems, l be able	troduces microprocessor architecture and mic out interfacing. Topics include low-level lar memory systems, interrupts, and other rela- te to interpret, analyze, verify, and troublesho using appropriate techniques and test equipr	nguage prog ted topics. 1 ot fundamen	rammin Upon c	ng, bus a ompletio	architecture, on, students

3 ELN 260 **Programmable Logic Controllers** 3 0 4

Prerequisites: ELC 112 or ELC 131

Corequisites: None

This course provides a detailed study of PLC applications, with a focus on design of industrial controls using the PLC. Topics include PLC components, memory organization, math instructions, documentation, input/output devices, and applying PLCs in industrial control systems. Upon completion, students should be able to select and program a PLC system to perform a wide variety of industrial control functions.

Writing and Inquiry ENG 111

3 3 0 0

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: ACA 122

Corequisites: ACA 122 This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for English Composition in A.A. and A.S. degree programs. This course has been approved to meet the* communications requirement in A.A.S. degree programs.

3 ENG 112 Writing/Research in the Disciplines 3 0 0

Prerequisites: ENG 111

Corequisites: None

This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for English Composition in A.A. and A.S. degree programs. This course has been approved to meet the communications requirement in A.A.S. degree programs.

Work/ Class Lab Clinical Credit

ENG 125Creative Writing I3003Prerequisites:ENG 1113003

Corequisites: None

This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing, fiction, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

ENG 131 Introduction to Literature

3 0 0

Prerequisites: ENG 111

Corequisites: ENG 112 or ENG 113 or ENG 114

This course introduces the principal genres of literature. Emphasis is placed on literary terminology, devices, structure, and interpretation. Upon completion, students should be able to analyze and respond to literature.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

ENG 231 American Literature I

Prerequisites: ENG 112 or ENG 113 or ENG 114

3 0 0 3

Corequisites: None

This course covers selected works in American Literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for humanities/fine arts in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

ENG 232 American Literature II

3 0 0 3

Prerequisites: ENG 112 or ENG 113, or ENG 114 Corequisites: None

This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for humanities/fine arts in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

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ENG 233 Major American Writers

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

This course provides an intensive study of the works of several major American authors. Emphasis is placed on American history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been*

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

ENG 241 British Literature I

3 0 0 3

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for humanities/fine arts in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

ENG 242 British Literature II

3 0 0 3

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for humanities/fine arts in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

ENG 243 Major British Writers

3 0 0 3

Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None

This course provides an intensive study of the works of several major British authors. Emphasis is placed on British history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

Work/ Class Lab Clinical Credit

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ENG 261 World Literature I

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from their literary beginnings through the seventeenth century. Emphasis is placed on historical background, cultural contexts, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for humanities/fine arts in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

ENG 262 World Literature II

3 0 0 3

Prerequisites: ENG 112 or ENG 113 or ENG 114

Corequisites: None

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from the eighteenth century to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for humanities/fine arts in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

ENG 272 Southern Literature

3 0 0 3

Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None

This course provides an analytical study of the works of several Southern authors. Emphasis is placed on the historical and cultural contexts, themes, aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

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ENG 273African-American Literature3003Prerequisites:ENG 112 or ENG 113 or ENG 1143003

Corequisites: None

This course provides a survey of the development of African-American literature from its beginnings to the present. Emphasis is placed on historical and cultural context, themes, literary traditions, and backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and respond to selected texts.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

EUS110Intro to Electric Utility Industry330Prerequisites:DMA 010-080 or MAT 080, DRE 098 or ENG 090 and RED 090

Corequisites: None

This course provides the student with an overview of the electric (power) utility industry. Topics include electric utility regulation and its scope, regulatory agencies and codes, general safety, electric system overview, electric generation, electric transmission, and electric distribution. Upon completion, students should be able to understand the need for electric utilities, their structure, and regulatory requirements on electric utilities.

EUS130Electric Utility Print Reading3204

Prerequisites: ELC 131 and EUS 110

Corequisites: None

This course introduces the basic principles of reading electrical drawings used in the utility industry. Topics include functional diagrams, AC and DC control schematics, wiring diagrams, control wiring diagrams, and logic diagrams. Upon completion, the student should be able understand the purpose of each type of drawing and answer questions based on the information in the drawings.

EUS 210 Large High Voltage Power Transformers I 2 3 0 3

Prerequisites: EUS 110

Corequisites: None

This course introduces the fundamentals of large power transformers used in the electrical utility industry with emphasis on function and criticality. Topics include understanding the various designs, load calculations, dissolved gas analysis, assembly, commissioning tests, available accessories, bushings, maintenance, and trouble shooting. Upon completion, students should be able to identify the various winding configurations and connections, interpret nameplate information, and perform various tests on transformers.

EUS215Large High Voltage Power Transformers II2303Prerequisites:EUS 210

Corequisites: None

This course covers complex electrical testing of power transformers. This course will focus primarily on the complex electrical testing of power transformers. Topics include understanding of power factor testing, winding resistance testing and trouble shooting. Upon completion, students should be able to perform various tests on transformers.

EUS220High Voltage Power Circuit Breakers2303

Prerequisites: ELC 117 or ELN 231, EUS 130

Corequisites: None

This course introduces the fundamentals of high voltage power circuit breakers used in the electrical utility industry with emphasis on function and criticality. Topics include understanding the various designs and interrupting mediums, how circuit breakers interrupt fault currents, Sulfur Hexafluoride gas (SF6), breaker timing, and maintenance. Upon completion, students should be able to identify various types of circuit breakers, interpret nameplate information, and perform various tests on these devices.

EUS 225 Electric Utility Safety & Human Performance 2 0 0 2

Prerequisites: EUS 110 and EUS 130

Corequisites: None

This course introduces students to the basic safe work practices and power system safety equipment which are used in utility substations and generating plants. Topics include personal safety for working on or around high voltage AC power systems up to 500 kV, procedures for clearing high voltage substation equipment, personal protective grounding and procedures for performing work in energized electric utility substations. Upon completion, students should be able to demonstrate the skills and knowledge to work on high voltage equipment/environment.

EUS230Electric Utility Protective Relaying I2303

Prerequisites: EUS 130

Corequisites: None

This course introduces protective relaying used in the electrical utility industry with emphasis on function and criticality. Topics include substations zones protection, transmission lines, switchyards, relays, and power line carrier components. Upon completion, students should be able to understand the purpose for various relay schemes and protective relays.

		Work/	/
Class	Lab	Clinical	Credit

EUS 235 **Electric Utility Protective Relaying II** 2 3 0 3 Prerequisites: EUS 230

Corequisites: None

This course provides advanced studies of protective relaying and includes single and three-phase metering principles, meter construction, and component parts. Topics include instrument transformer theory and applications, sizing instrument transformers, wiring transformers, meter installations, and electronic meter functionality. Upon completion, students should be able to describe and test overcurrent schemes, transformer differential schemes, and transmission line protection schemes.

Substation Ancillary Systems 2 3 0 3 EUS 240

Prerequisites: EUS 130

Corequisites: None

This course introduces many of the supporting systems used in substations and generating plant switchyards to support the operation of the electric power grid. Topics include instrument transformers, capacitor banks, reactor banks, batteries, circuit switchers, bushings, disconnect switches, and ground grids. Upon completion, the student should be able to understand the design and purpose of each of these devices and systems.

Electric Utility Troubleshooting EUS 255 1 3 0 2 Prerequisites: EUS 215 and EUS 230

Corequisites: EUS 235

This course introduces a wide variety of techniques to troubleshoot electric utility substation and generating plant power system equipment. Topics include testing and troubleshooting high and medium voltage power circuit breakers, three phase high voltage power transformers, voltage regulators and circuit switchers. Upon completion, students should be able to use specialized test equipment used by electric utilities to maintain and troubleshoot power system equipment used by utility substation and generating plants.

EUS 260 Cap & Case Studies in EUSRT 0 4 0 2

Prerequisites: EUS 215

Corequisites: EUS 235

This course provides an opportunity for students to utilize all facets of their educational experience to solve problems common to the electric utility industry. Topics include electric utility and industry case studies, project safety, planning and organization, communication, and project documentation. Upon completion, students should be able to demonstrate the ability to complete a capstone project, concluding with a formal report.

3 0 0 3

FRE111Elementary French IPrerequisites:DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces the fundamental elements of the French language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills.

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Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A. and A.S. degree programs.

				Work/		
			Class Lab Clinical Cred			Credit
FRE	112	Elementary French II	3	0	0	3
Prerec	uisites:	FRE 111				
Coreq	uisites:	None				

This course is a continuation of FRE 111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A. and A.S. degree programs.

GEL 111 Geology 3 2

Prerequisites: DMA 010-050 or MAT 070, DRE 098 or ENG 080 and RED 090 Corequisites: None

This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, fluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

GEL 120 Physical Geology

3 2 0

Prerequisites: DMA 010-050 or MAT 070, DRE 098 or ENG 080 and RED 090 Corequisites: None

This course provides a study of the structure and composition of the earth's crust. Emphasis is placed on weathering, erosional and dispositional processes, mountain building forces, rocks and minerals, and structural changes. Upon completion, students should be able to explain the structure, composition, and formation of the earth's crust.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for natural sciences in A.A., A.S., and A.A.S. degree programs.

GEO 111World Regional Geography3003Prerequisites:DRE 098 or ENG 090 and RED 090

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces the regional concept which emphasizes the spatial association of people and their environment. Emphasis is placed on the physical, cultural, and economic systems that interact to produce the distinct regions of the earth. Upon completion, students should be able to describe variations in physical and cultural features of a region and demonstrate an understanding of their functional relationships.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

GEO 112 Cultural Geography

3 0 0

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Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course is designed to explore the diversity of human cultures and to describe their shared characteristics. Emphasis is placed on the characteristics, distribution, and complexity of earth's cultural patterns. Upon completion, students should be able to demonstrate an understanding of the differences and similarities in human cultural groups.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

GER 111 Elementary German I

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces the fundamental elements of the German language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written German and demonstrate cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A. and A.S. degree programs.

GER 112 Elementary German II

3 0 0 3

Prerequisites: GER 111

Corequisites: None

This course is a continuation of GER 111 focusing on the fundamental elements of the German language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written German and demonstrate further cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A. and A.S. degree programs.

			Work				
		Cla	Class Lab Clin				
GRO 120	Gerontology	3	0	0	3		
Prerequisites:	None						
Corequisites:	None						

This course covers the psychological, social, and physical aspects of aging. Emphasis is placed on the factors that promote mental and physical well-being. Upon completion, students should be able to recognize the aging process and its psychological, social, and physical aspects.

HBI110Issues and Trends in HBI300

Prerequisites: None

Corequisites: None

This course is a survey of current and emerging technology applications and data standards in the healthcare industry. Topics include the history, implementation, use, management, and impact of information technology in healthcare settings. Upon completion, students should have an understanding of the current trends and issues in healthcare informatics.

HBI 1	113	Survey of Med Insurance	3	0	0	3
Prerequi	isites:	BUS 110				
Corequis	sites:	None				

This course is a survey of the healthcare insurance system. Emphasis is placed on the foundation necessary for understanding the healthcare delivery system, terminology and practices of healthcare insurance, and provider reimbursement. Upon completion, students should have an understanding of healthcare insurance and how outcomes are addressed through healthcare informatics.

HBI250Data Management and Utilization2203

Prerequisites: DBA 110

Corequisites: None

This course covers the management and usage of data in healthcare settings according to current practices in healthcare informatics. Topics include data warehousing, data integrity, data security, data mining, and report generating in healthcare settings. Upon completion, students should be able to demonstrate an understanding of using healthcare data to support reporting and decision making in healthcare settings.

HEA 110 Personal Health/Wellness 3 0 0 3 Prerequisites: None

Corequisites: None

This course provides an introduction to basic personal health and wellness. Emphasis is placed on current health issues such as nutrition, mental health, and fitness. Upon completion, students should be able to demonstrate an understanding of the factors necessary to the maintenance of health and wellness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

First Aid & CPR **HEA 112**

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Prerequisites: None

Corequisites: None

This course introduces the basics of emergency first aid treatment. Topics include rescue breathing, CPR, first aid for choking and bleeding, and other first aid procedures. Upon completion, students should be able to demonstrate skills in providing emergency care for the sick and injured until medical help can be obtained.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

Community Health HEA 120

3 3 0 0

Prerequisites: None

Corequisites: None

This course provides information about contemporary community health and school hygiene issues. Topics include health education and current information about health trends. Upon completion students should be able to recognize and devise strategies to prevent today's community health problems. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A.* and A.S. degree programs.

World Civilizations I HIS 111

3 3 0 0

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations. Note: In accordance with the Comprehensive Articulation Agreement, this course has been

approved to satisfy the Universal General Education Transfer Component requirement for social/behavioral sciences in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

Work/ **Class Lab Clinical Credit**

HIS 112 World Civilizations II

3 0 0

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Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces world history from the early modern era to the present. Topics include the cultures of Africa, Europe, India, China, Japan, and the Americas. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern world civilizations.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for social/behavioral science in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

HIS 121 Western Civilization I

3 0 0

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces western civilization from pre-history to the early modern era. Topics include ancient Greece, Rome, and Christian institutions of the Middle Ages and emergence of national monarchies in western Europe. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early western civilization. *Note:* In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral science in A.A., A.S., and A.A.S. degree programs.

Western Civilization II HIS 122

3 3 0 0

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course introduces western civilization from the early modern era to the present. Topics include the religious wars, the Industrial Revolution, World Wars I and II, and the Cold War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern western civilization.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral science in A.A., A.S., and A.A.S. degree programs.

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HIS 131 American History I

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for social/behavioral sciences in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

HIS 132 American History II

3 0 0

Prerequisites: DRE 098 or ENG 090 and RED 090

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for social/behavioral sciences in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.*

HIS 162 Women and History

3 0 0 3

Corequisites: None

This course surveys the experience of women in historical perspective. Topics include the experiences and contributions of women in culture, politics, economics, science, and religion. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural contributions of women in history.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

HIS 221 African-American History

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course covers African-American history from the Colonial period to the present. Topics include African origins, the slave trade, the Civil War, Reconstruction, the Jim Crow era, the civil rights movement, and contributions of African Americans. Upon completion, students should be

able to analyze significant political, socioeconomic, and cultural developments in the history of African Americans.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

Work/ **Class Lab Clinical Credit** 226 The Civil War 3 0 0 3

Prerequisites: ENG 090, RED 090

Corequisites: None

HIS

This course examines the social, political, economic, and ideological forces that led to the Civil War and Reconstruction. Topics include regional conflicts and sectionalism, dissolution of the Union, military campaigns, and the War's socioeconomic impact, aftermath, and consequences. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the United States during the era of the Civil War.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

HIS 227 **Native American History**

Prerequisites: DRE 098 or ENG 090 and RED 090

3 3 0 0

Corequisites: None

This course surveys the history and cultures of Native Americans from pre-history to the present. Topics include Native American civilizations, relations with Europeans, and the continuing evolution of Native American cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments among Native Americans.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

3

HIS236North Carolina History300DiiiDDE 000IDED 00030

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course is a study of geographical, political, economic, and social conditions existing in North Carolina from America's discovery to the present. Topics include native and immigrant backgrounds; colonial, antebellum, and Reconstruction periods; party politics; race relations; and the transition from an agrarian to an industrial economy. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in North Carolina.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

HIT 110 Fundamentals of HIM 3 0 0 3

Prerequisites: DMA 010-040 or MAT 070, DRE 098 or ENG 090 and RED 090, Enrollment in HIT Program

Corequisites: HIT 112

This course introduces Health Information Management (HIM) and its role in healthcare delivery systems. Topics include standards, regulations and initiatives; payment and reimbursement systems, healthcare providers and disciplines; and electronic health records (EHRs). Upon completion, students should be able to demonstrate an understanding of health information management and healthcare organizations, professions and trends.

HIT 112 Health Law and Ethics 3 0 0 3

Prerequisites: DMA 010-040 or MAT 070, DRE 098 or ENG 090 and RED 090, Enrollment in HIT program

Corequisites: HIT 110

This course covers legislative and regulatory processes, legal terminology, and professionalrelated and practice-related ethical issues. Topics include confidentiality; privacy and security policies, procedures and monitoring; release of information policies and procedures; and professional-related and practice-related ethical issues. Upon completion, students should be able to apply policies and procedures for access and disclosure of Protected Health Information and apply and promote ethical standards.

HIT114Health Data Sys/Standards230

Prerequisites: MED 121, Enrollment in HIT program Corequisites: None

This course covers concepts and techniques for managing and maintaining manual and electronic health records (EHR). Topics include structure and use of health information including data collection and analysis, data sources/sets, archival systems, and quality and integrity of healthcare data. Upon completion, students should be able to monitor and apply system-wide clinical documentation guidelines and comply with regulatory standards.

3

HIT210Healthcare Statistics2203

Prerequisites: HIT 114, MAT 143

Corequisites: None

This course covers maintenance, compilation, analysis, and presentation of healthcare statistics and research protocols and techniques. Topics include basic statistical principles, indices, databases, registries, vital statistics, descriptive statistics, research protocol monitoring, Institutional Review Board processes, and knowledge-based research techniques. Upon completion, students should be able to apply, interpret, and present healthcare statistics and utilize research techniques to gather and interpret healthcare data.

HIT 211 ICD Coding

2 6 0 4

Prerequisites: BIO 166, HIT 114, MED 122

Corequisites: None

This course covers ICD diagnostics and procedural coding conventions and guidelines for inpatient, outpatient and ambulatory care. Emphasis is placed on a comprehensive application of anatomy, physiology and interrelationships among organ systems. Upon completion, students should be able to accurately assign and sequence diagnostic and procedural codes for patient outcomes, statistical and reimbursement purposes.

HIT	214	CPT/Other Coding Systems	1	3	0	2
Prereq	uisites:	HIT 211				
Corequ	uisites:	None				

This course covers application of principles and guidelines of CPT/HCPCS coding. Topics include clinical classification/nomenclature systems such as SNOMED, DSM, ICD-O and the use of encoders. Upon completion, students should be able to apply coding principles to correctly assign CPT/HCPCS codes.

HIT 215 Reimbursement Methodology 1 2 0 2

Prerequisites: HIT 211

Corequisites: HIT 214

This course covers reimbursement methodologies used in all healthcare settings as they relate to national billing, compliance, and reporting requirements. Topics include prospective payment systems, billing process and procedures, chargemaster maintenance, regulatory guidelines, reimbursement monitoring, and compliance strategies and reporting. Upon completion, students should be able to perform data quality reviews to validate code assignment and comply with reimbursement and reporting requirements.

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HIT216Quality Management13Prerequisites:HIT114

Corequisites: None

This course introduces principles of quality assessment and improvement, and utilization, risk, and case management, in healthcare. Topics include Continuous Quality Improvement, and case management processes, data analysis/reporting techniques, credentialing, regulatory quality monitoring requirements, and outcome measures and monitoring. Upon completion, students should be able to abstract, analyze, and report clinical data for facility-wide quality management/performance improvement programs and monitor compliance measures.

HIT220Health Informatics & EHRs1202

Prerequisites: CIS 110 or CIS 111, HIT 114

Corequisites: None

This course covers EHR systems, design, implementation and application. Topics include EHR, Informatics, speech & imaging technology, information/network security & integrity, data dictionaries, modeling and warehousing. Upon completion, students should be able to facilitate usage of electronic health record systems and other technologies.

HIT 222 Prof Practice Exp III 0 0 6	2
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Prerequisites: HIT 211

Corequisites: None

This course provides supervised clinical experience in healthcare settings. Emphasis is placed on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices.

HIT 226 Principles of Disease

3 0 0

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Prerequisites: BIO 166

Corequisites: None

This course covers disease etiology and organ system involvement, including physical signs and symptoms, prognoses, and common complications and their management. Topics include basic microbiology, basic pharmacology, and principles of disease. Upon completion, students should be able to relate disease processes to etiology, physical signs and symptoms, prognosis, and common complications and their management.

HIT 280 Professional Issues

2 0 0 2

Prerequisites: HIT 211 Corequisites: None

This course provides a comprehensive discussion of topics common to the health information profession. Emphasis is placed on application of professional competencies, job search tools, and preparation for the certification examination. Upon completion, students should be able to demonstrate competence in entry-level domains and sub domains for health information technologies.

Work/ Class Lab Clinical Credit

HMT 110Intro to Healthcare Management3003Prerequisites:None

Corequisites: None

This course introduces the functions, practices, organizational structures, and professional issues in healthcare management. Emphasis is placed on planning, controlling, directing, and communicating within health and human services organizations. Upon completion, students should be able to apply the concepts of management within a healthcare service environment.

HMT 210 Medical Insurance

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Prerequisites: MED 121

Corequisites: None

This course introduces the concepts of medical insurance. Topics include types and characteristics of third-party payers, coding concepts, payment systems, and manual/electronic claims form preparation. Upon completion, students should be able to process third-party claims forms.

HMT 211Long-Term Care Administration3003

Prerequisites: HMT 110

Corequisites: None

This course introduces the administration of long-term care facilities and services. Emphasis is placed on nursing home care, home health care, hospice, skilled nursing facilities, and other long-term care services. Upon completion, students should be able to distinguish between the different long-term care offerings, criteria for use, and benefits of the patient, resident, and participant.

HMT 212 Management of Healthcare Organizations 3 0 0 3

Prerequisites: HMT 110

Corequisites: None

This course examines current issues affecting the management of healthcare delivery systems. Topics include current problems, changes, and challenges in the healthcare environment. Upon completion, students should be able to identify current health care issues and their impact on healthcare management.

HMT 220Healthcare Financial Management400

Prerequisites: ACC 120, HMT 110

Corequisites: None

This course covers the methods and techniques utilized in the financial management of healthcare programs. Topics include cost determination, pricing of services, financial statement analysis, forecasting/projections, third-party billing, reimbursement, Medicare, Medicaid, and budgeting. Upon completion, students should be able to interpret and apply the principles of financial management in a healthcare environment.

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		Work/ Class Lab Clinical Credit			
Prerequisites: Corequisites: This course in office. Empha monitor produces should be able		ces, mar nalysis.	nagemei Upon co	nt report ompletic	ting used to
Topics includ disciplines in	DRE 098 troduces the human services field, including the h le personal/professional characteristics, diverse p the field, systems, ethical standards, and major the tion, students should be able to identify the knowle	opulatio	ons, cor and tre	nmunity atment a	resources, approaches.
Corequisites: This course in awareness fac and the beha	Group Process I DRE 097, Enrollment in the HSE program DRE 098 ntroduces interpersonal concepts and group dyna ilitated by experiential learning in small groups wi vior of others. Upon completion, students shoul ad explaining how people are influenced by their i	ith analy d be ab	vsis of po le to sh	ersonal endersonal endersonal endersonal endersonal endersonal endersonal endersonal endersonal endersonal ende	experiences npetence in
HSE 123	Interviewing Techniques	2	2	0	3

HSE 123 **Interviewing Techniques** 2

Prerequisites: DRE 097

Corequisites: DRE 098

This course covers the purpose, structure, focus, and techniques employed in effective interviewing. Emphasis is placed on observing, attending, listening, responding, recording, and summarizing of personal histories with instructor supervision. Upon completion, students should be able to perform the basic interviewing skills needed to function in the helping relationship.

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HSE 125 Counseling

Prerequisites: PSY 150

Corequisites: None

This course covers the major approaches to psychotherapy and counseling, including theory, characteristics, and techniques. Emphasis is placed on facilitation of self-exploration, problem solving, decision making, and personal growth. Upon completion, students should be able to understand various theories of counseling and demonstrate counseling techniques.

	Work/ Class Lab Clinical Credit			
HSE127Conflict ResolutionPrerequisites:NoneCorequisites:None	2	2	0	3
This course introduces conflict resolution and mediation the on achieving compromise and a win/win perception. Upon o demonstrate competence in identifying seemingly dissimilar	completion,	studen	ts shoul	d be able to
HSE 155 Community Resources Management Prerequisites: DRE 097 Corequisites: DRE 098	2	0	0	2
This course focuses on the working relationships betwee community. Emphasis is placed on identification and obser contribute to the achievement of the human services missic be able to demonstrate knowledge about mobilizing of con support, and determining appropriate sources of funding.	vation of co on. Upon co	ommun ompleti	ity resou on, stud	urces which lents should
HSE 210Human Services IssuesPrerequisites:Successful completion of 12 SHC in the HSECorequisites:None	2 E major cou	0 rses	0	2
This course covers current issues and trends in the field of h contemporary topics with relevance to special issues in a students should be able to integrate the knowledge, skills, and clinical experiences with emerging trends in the field.	multifacete	d field.	. Upon o	completion,
HSE 220 Case Management Prerequisites: HSE 110	2	2	0	3
Corequisites: None This course covers the variety of tasks associated with princlude treatment planning, needs assessment, referral proco of services. Upon completion, students should be able to eff person from initial contact through termination of services.	edures, and	follow	-up and	integration
HSE 225 Crisis Intervention	3	0	0	3

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course introduces the basic theories and principles of crisis intervention. Emphasis is placed on identifying and demonstrating appropriate and differential techniques for intervening in various crisis situations. Upon completion, students should be able to assess crisis situations and respond appropriately.

Work/
Class Lab Clinical Credit

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HSE 227 **Children & Adolescents in Crisis** 3 0 0 3 Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course covers the crises affecting children and adolescents in contemporary society. Emphasis is placed on abuse and neglect, suicide and murder, dysfunctional family living, poverty, and violence. Upon completion, students should be able to identify and discuss intervention strategies and available services for the major contemporary crises affecting children and adolescents.

Family Systems HSE 242

Prerequisites: PSY 150 or SOC 210

Corequisites: None

This course introduces the concepts of family structure as a system and includes the impact of contemporary society on the family. Topics include systems theory, family structure, blended families, divorce, adoption, and the elderly. Upon completion, students should be able to demonstrate and understanding of families as a system and the impact of change on family structure.

HSE 250 **Financial Services** 2 0 0

Prerequisites: DRE 097

Corequisites: DRE 098

This course introduces those agencies that provide income maintenance casework services. Emphasis is placed on qualifying applicants for a variety of economic assistant programs offered by human services agencies. Upon completion, students should be able to make a factual and objective assessment of a client's economic situation to qualify them for economic assistance.

HSE 251 **Activities Planning**

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces skills and techniques used in recreation and leisure activities to enhance the lives of special populations. Emphasis is placed on music, art, and recreational activities. Upon completion, students should be able to define, plan, and adapt recreational activities for selected groups and individuals.

2 HSE 255 **Health Problems & Prevention** 2 0 3

Prerequisites: None

Corequisites: None

This course surveys a range of health problems and issues, including the development of prevention strategies. Topics include teen pregnancy, HIV/AIDS, tuberculosis, communicable diseases, professional burnout, substance abuse, and sexually transmitted diseases. Upon completion, students should be able to identify health issues and demonstrate prevention strategies.

HUM 110Technology and Society3003Prerequisites:DRE 098 or ENG 090 and RED 090333

Corequisites: None

This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

HUM 115 Critical Thinking

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

HUM 120 Cultural Studies

3 0 0 3

Prerequisites: DRE 097

Corequisites: DRE 098

This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the study culture.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

HUM 122 Southern Culture

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course explores the major qualities that make the South a distinct region. Topics include music, politics, literature, art, religion, race relations, and the role of social class in historical and contemporary contexts. Upon completion, students should be able to identify the characteristics that distinguish Southern culture.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

Work/
Class Lab Clinical Credit

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HUM 130 Myth in Human Culture

Prerequisites: DRE 098

Corequisites: None

This course provides an in-depth study of myths and legends. Topics include the varied sources of myths and their influence on the individual and society within diverse cultural contexts. Upon completion, students should be able to demonstrate a general familiarity with myths and a broad-based understanding of the influence of myths and legends on modern culture.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

American Women's Studies 3 HUM 150 0 0

Prerequisites: DRE 098 or ENG 090 and RED 090

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Corequisites: None

This course provides an inter-disciplinary study of the history, literature, and social roles of American women from Colonial times to the present. Emphasis is placed on women's roles as reflected in American language usage, education, law, the workplace, and mainstream culture. Upon completion, students should be able to identify and analyze the roles of women as reflected in various cultural forms.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

HUM 160 **Introduction to Film**

2 2 0 3

Prerequisites: DRE 098

Corequisites: None

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values reflected in film art. Upon completion, students should be able to critically analyze the elements covered in relation to selected films.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

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Work/ Class Lab Clinical Credit

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HUM 211 Humanities I

Prerequisites: ENG 111

Corequisites: None

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from ancient through early modern times. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

HUM 212 Humanities II

3 0 0 3

Prerequisites: ENG 111

Corequisites: None

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from early modern times to the present. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

HYD 110 Hydraulics/Pneumatics I 2 3 0

Prerequisites: DMA 010-030 or MAT 060

Corequisites: None

This course introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control assemblies, actuators, FRL, maintenance procedures, and switching and control devices. Upon completion, students should be able to understand the operation of a fluid power system, including design, application, and troubleshooting.

2	3	0	3
	2	2 3	2 3 0

Prerequisites: None

Corequisites: None

This course introduces the basic components and functions of hydraulic and pneumatic systems and their application to automated machinery. Topics include standard symbols, compressors, control valves, control circuits, actuators, maintenance procedures, switching and control devices as applied to automated machinery. Upon completion, students should be able to demonstrate an understanding of the operation of hydraulic fluid and compressed air and vacuum systems including design, troubleshooting, and applications.

	Work/ Class Lab Clinical Credit			
INT 110 International Business Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None This course provides an overview of the environment, concepts international business. Topics include forms of foreign involv governmental influences on trade and strategies, internation corporations, personnel management, and international market should be able to describe the foundation of international business	ement, i onal org eting. U	nternat anizati	ional tr ons, m	ade theory, ultinational
ISC 112 Industrial Safety Prerequisites: None Corequisites: None This course introduces the principles of industrial safety. Empl and OSHA regulations. Upon completion, students should be all safe working environment and OSHA compliance.	-			•
ISC 132 Manufacturing Quality Control Prerequisites: None Corequisites: None This course introduces quality concepts and techniques us		3	0 y. Topi	3 ics include

elementary statistics and probability, process control, process capability, and quality improvement tools. Upon completion, students should be able to demonstrate an understanding of the concepts and principles of quality and apply them to the work environment.

MAC 111 Machining Technology I 2 12

Prerequisites: None

Corequisites: None

This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, drilling machines, saws, milling machines, bench grinders, and layout instruments. Upon completion, students should be able to safely perform the basic operations of measuring, layout, drilling, sawing, turning, and milling.

MAC 112 Machining Technology II 2

Prerequisites: MAC 111

Corequisites: None

This course provides additional instruction and practice in the use of precision measuring tools, lathes, milling machines, and grinders. Emphasis is placed on setup and operation of machine tools including the selection and use of work holding devices, speeds, feeds, cutting tools, and coolants. Upon completion, students should be able to perform basic procedures on precision grinders and advanced operations of measuring, layout, drilling, sawing, turning, and milling.

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	Class	Lab Cl	Work/ inical C	credit
MAC 113 Machining Technology III Prerequisites: MAC 112 Corequisites: None	2	12	0	6
This course provides an introduction to advanced and special n placed on working to specified tolerances with special and ad students should be able to produce a part to specifications.				
MAC 114 Introduction to Metrology Prerequisites: None	2	0	0	2
Corequisites: None This course introduces the care and use of precision measuring on the inspection of machine parts and use of a wide variety completion, students should be able to demonstrate the correct u	of me	asuring	instrum	ents. Upon
MAC 122 CNC Turning Prerequisites: MAC 111 or MEC 111 Corequisites: None	1	3	0	2
This course introduces the programming, setup, and operation include programming formats, control functions, program editin Upon completion, students should be able to manufacture simple	g, part	product	ion, and	inspection.
MAC 124 CNC Milling Prerequisites: MAC 111 or MEC 111 Corequisites: None	1	3	0	2
This course introduces the manual programming, setup, and ope Topics include programming formats, control functions, programming				

Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC machining centers.

MAC 151	Machining Calculations	1	2	0	2
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Prerequisites: None

Corequisites: None

This course introduces basic calculations as they relate to machining occupations. Emphasis is placed on basic calculations and their applications in the machine shop. Upon completion, students should be able to perform basic shop calculations.

MAT 143 **Quantitative Literacy**

2 2 0

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Prerequisites: DMA 010-050, DRE 098

Corequisites: ACA 122

This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through projectand activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion, students should be able to utilize quantitative information as consumers and to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for mathematics in the A.A. degree program. This course has been approved to meet the mathematics requirement in A.A.S. degree programs.

MAT 152 Statistical Methods I

3 2 0 4

Prerequisites: DMA 010-050, DRE 098

Corequisites: None

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for mathematics in the A.A. degree program. This course has been approved to meet the mathematics requirement in A.A.S. degree programs.

Discrete Mathematics MAT 167

3 3 0 0

Prerequisites: MAT 171

Corequisites: None

This course is a study of discrete mathematics with emphasis on applications. Topics include number systems, combinations/permutations, mathematical logic/proofs, sets/counting, Boolean algebra, mathematical induction, trees/graphs, and algorithms. Upon completion, students should be able to demonstrate competence in the topics covered.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

4

Work/ Class Lab Clinical Credit

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MAT 171 Precalculus Algebra

Prerequisites: DMA 010-080 or MAT 080

Corequisites: None

This course is designed to develop topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for mathematics in A.A. and A.S. degree programs. This course has been approved to meet the mathematics requirement in A.A.S. degree programs.

MAT 172 Precalculus Trigonometry

3 2 0

Prerequisites: MAT 171

Corequisites: None

This course is designed to develop an understanding of topics which are fundamental to the study of Calculus. Emphasis is placed on the analysis of trigonometric functions in multiple representations, right and oblique triangles, vectors, polar coordinators, conic sections, and parametric equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to trigonometry-related problems with and without technology.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for mathematics in the A.S. degree program. This course has been approved to meet the mathematics requirement in A.A.S. degree programs.

MAT 271 Calculus I

3 2 0 4

Prerequisites: MAT 172 Corequisites: None

This course is designed to develop the topics of differential and integral calculus. Emphasis is placed on limits, continuity, derivatives and integrals of algebraic and transcendental functions of one variable. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to derivative-related problems with and without technology.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for mathematics in the A.S. degree program. This course has been approved to meet the mathematics requirement in A.A.S. degree programs.

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MAT 272 Calculus II

Prerequisites: MAT 271

Corequisites: None

This course provides a rigorous treatment of integration and is the second calculus course in a three-course sequence. Topics include applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to use integration and approximation techniques to solve application problems.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for mathematics in A.A., A.S. and A.A.S. degree programs.

MAT 273 Calculus III

3 2 0 4

Prerequisites: MAT 272

Corequisites: None

This course covers the calculus of several variables and is the third calculus course in a threecourse sequence. Topics include functions of several variables, partial derivatives, multiple integrals, solid analytical geometry, vector-valued functions, and line and surface integrals. Upon completion, students should be able to solve problems involving vectors and functions of several variables.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for mathematics in A.A., A.S. and A.A.S. degree programs.

MAT 280 Linear Algebra

3 0 0 3

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Prerequisites: MAT 271

Corequisites: None

This course provides a study of linear algebra topics with emphasis on the development of both abstract concepts and applications. Topics include vectors, systems of equations, matrices, determinants, vector spaces, linear transformations in two or three dimensions, eigenvectors, eigenvalues, diagonalization and orthogonality. Upon completion, students should be able to demonstrate both an understanding of the theoretical concepts and appropriate use of linear algebra models to solve application problems.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the mathematics requirement for A.A.S. degree programs.

MAT 285 Differential Equations

Prerequisites: MAT 272

Corequisites: None

This course provides an introduction to ordinary differential equations with an emphasis on applications. Topics include first-order, linear higher-order, and systems of differential equations; numerical methods; series solutions; eigenvalues and eigenvectors; Laplace transforms; and

Fourier series. Upon completion, students should be able to use differential equations to model physical phenomena, solve the equations, and use the solutions to analyze the phenomena.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the mathematics requirement for A.A.S. degree programs.

	Class		Work/ linical (Credit	
MEC 110 Introduction to CAD/CAM	1	2	0	2	
Prerequisites: DMA 010-060 or MAT 070, DRE 097					
Corequisites: DRE 098					
This course introduces CAD/CAM. Emphasis is placed on t	ransferring	g part g	eometry	from CAI	D
to CAM for the development of a CNC-ready program. Upon	n completi	on, stuc	lents sho	ould be abl	e
to use CAD/CAM software to produce a CNC program.	1				
MEC 111 Machine Processes I	1	4	0	3	

Prerequisites: DMA 010-020 or MAT 060

Corequisites: None

This course introduces shop safety, hand tools, machine processes, measuring instruments, and the operation of machine shop equipment. Topics include use and care of tools, safety, measuring tools, and the basic setup and operation of common machine tools. Upon completion, students should be able to manufacture simple parts to specified tolerances.

MEC 130 Mechanisms

2 2 0 3

Prerequisites: DMA 010-020 or MAT 060 Corequisites: None

This course introduces the purpose and action of various mechanical devices. Topics include cams, cables, gear trains, differentials, screws, belts, pulleys, shafts, levers, lubricants, and other devices. Upon completion, students should be able to analyze, maintain, and troubleshoot the components of mechanical systems.

MEC 142	Physical Metallurgy	1	2	0	2
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Prerequisites: MAC 111 or MEC 111

Corequisites: None

This course covers the heat treating of metals. Emphasis is placed on the effects of hardening, tempering, and annealing on the structure and physical properties of metals. Upon completion, students should be able to heat treat materials.

MEC 161 Manufacturing Process I 3 0 0

Prerequisites: None

Corequisites: None

This course provides the fundamentals principles of value-added processing of materials into usable forms for the customer. Topics include material properties and traditional and non-traditional manufacturing processes. Upon completion, students should be able to specify appropriate manufacturing processing for common engineering materials.

	Class I		Work/ inical C	Credit	
MEC 180 Engineering Materials	2	3	0	3	
Prerequisites: None					
Corequisites: None					
This course introduces the physical and mechanical pro-	operties of n	naterial	ls. Top	ics includ	le
materials testing, pre and post-manufacturing processes, and	d material sel	ection	of ferro	us and not	n-

materials testing, pre and post-manufacturing processes, and material selection of ferrous and nonferrous metals, plastics, composites, and non-conventional materials. Upon completion, students should be able to utilize basic material property tests and select appropriate materials for applications.

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MEC 270	Machine Design
Prerequisites:	DFT 151, EGR 250, MEC 180
Coroquisitos	Nona

Corequisites: None

This course covers the basic principles and underlying design and selection of machine elements. Topics include stress analysis, selection of components, power transmission, and other design considerations. Upon completion, students should be able to identify and solve mechanical design problems by applying basic engineering principles.

MEC 271	Machine Design Project	0	3	0	1

Prerequisites: DFT 151, EGR 250, MEC 180 Corequisites: MEC 270

This course provides an opportunity for involvement in the practical application of machine design by development of a project. Emphasis is placed on the design and engineering processes required to complete an approved project. Upon completion, students should be able to demonstrate the ability to progress from conceptual design to completed project.

MED 110 Orientation to Medical Assisting 1 0 0 1

Prerequisites: DMA 010-040 or MAT 070, DRE 098 or ENG 090 and RED 090, Enrollment in Medical Assisting program

Corequisites: MED 130

This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is placed on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting.

MED 112 Orientation to Clinical Setting I 0 0 3 1

Prerequisites: MED 110, MED 118, MED 121, MED 130

Corequisites: None

This course provides an early opportunity to observe and/or perform in the medical setting. Emphasis is placed on medical assisting procedures including appointment scheduling, filing, greeting patients, telephone techniques, billing, collections, medical records, and related medical procedures. Upon completion, students should be able to identify administrative and clinical procedures in the medical environment.

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Work/ Class Lab Clinical Credit

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MED 114 Prof Interaction in Health Care 1 0

Prerequisites: MED 140, Enrollment in the Medical Assisting program

Corequisites: None

This course is designed to identify various patient behaviors encountered in the medical setting. Emphasis is placed on stressors related to illness, cultural influences, death and dying, and needs specific to patients. Upon completion, students should be able to utilize appropriate methods of verbal and nonverbal communications with empathy and impartiality.

MED 118 Medical Law and Ethics

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Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course covers legal relationships of physicians and patients, contractual agreements, professional liability, malpractice, medical practice acts, informed consent, and bioethical issues. Emphasis is placed on legal terms, professional attitudes, and the principles and basic concepts of ethics and laws involved in providing medical services. Upon completion, students should be able to meet the legal and ethical responsibilities of a multi-skilled health professional.

MED 121 Medical Terminology I

3 0 0

Prerequisites: None

Corequisites: None

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

MED 122 Medical Terminology II

Prerequisites: MED 121

Corequisites: None

This course is the second in a series of medical terminology courses. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

MED 130Administrative Office Procedures I1202

Prerequisites: DRE 098 or ENG 090 and RED 090, Enrollment in the Medical Assisting program Corequisites: MED 110

This course introduces medical office administrative procedures. Topics include the appointment processing, written and oral communications, medical records, patient orientation, and safety. Upon completion, students should be able to perform basic administrative skills within the medical environment.

	Class		Work/ linical C	Credit
MED 131Administrative Office Procedures IIPrerequisites:MED 130Corequisites:MED 232	1	2	0	2
This course provides medical office procedures in both economic include physical plant maintenance, equipment and supple economics, and introductory insurance procedures. Upon companage the economics of the medical office and supervise personal supervise perso	lies, lia pletion,	ability	coverag	e, medical
MED 134 Medical Transcription Prerequisites: MED 121 Corequisites: None This course provides the basic knowledge, understanding, and s reports and transcribe medical dictation. Emphasis is placed on a and spelling. Upon completion, students should be able to de transcription.	correct	punctua	tion, cap	oitalization,
MED 140Exam Room Procedures IPrerequisites:BIO 163, MED 121, MED 122Corequisites:None	3	4	0	5
This course provides instruction in clinical examining room prinfection control, assisting with exams and treatment, pa administration of medications, EKG, vital signs, and medica students should be able to demonstrate competence in exam room.	tient eo l emerg	ducation gencies.	n, prepa	ration and
MED 150 Laboratory Procedures I Prerequisites: MED 140 Corequisites: None This source provides instruction in basis lab techniques used	3	4	0	5

This course provides instruction in basic lab techniques used by the medical assistant. Topics include lab safety, quality control, collecting and processing specimens, performing selective tests, phlebotomy, screening and follow-up of test results, and OSHA/CLIA regulations. Upon completion, students should be able to perform basic lab tests/ skills based on course topics.

MED 232 Medical Insurance Coding

1 3 0 2

Prerequisites: MED 121

Corequisites: MED 131

This course is designed to develop coding skills. Emphasis is placed on advanced diagnostic and procedural coding in the outpatient facility. Upon completion, students should be able to demonstrate proficiency in coding for reimbursement.

MED 260 MED Clinical Practicum 0 0 15 5 Prerequisites: MED 112, MED 114, MED 150, MED 232, MED 270, MED 272 MED 272 5

Corequisites: None

This course provides the opportunity to apply clinical, laboratory, and administrative skills in a medical facility. Emphasis is placed on enhancing competence in clinical and administrative skills necessary for comprehensive patient care and strengthening professional communications and interactions. Upon completion, students should be able to function as an entry-level health care professional.

MED 270 Symptomatology 2 2

Prerequisites: MED 122, MED 131, Enrollment in the Medical Assisting program Corequisites: None

This course covers the study of disease symptoms and the appropriate actions taken by medical assistants in a medical facility in relation to these symptoms. Emphasis is placed on interviewing skills and appropriate triage, preparing patients for procedures, and screening test results. Upon completion, students should be able to recognize how certain symptoms relate to specific diseases, recognize emergency situations, and take appropriate actions.

MED 272 Drug Therapy

Prerequisites: MAT 143, MED 140, Enrollment in the Medical Assisting program Corequisites: None

This course focuses on major drug groups, including their side effects, interactions, methods of administration, and proper documentation. Emphasis is placed on the theory of drug administration. Upon completion, students should be able to identify, spell, recognize side effects of, and document the most commonly used medications in a physician's office.

MED 276 Patient Education

Prerequisites: MED 112, MED 114, MED 150, MED 232, MED 270, MED 272 Corequisites: None

This course is designed to provide communication skills, basic education principles, and knowledge of available community resources and to apply this knowledge to the clinical setting. Emphasis is placed on identifying appropriate community resources, developing patient education materials, and perfecting written and oral communication skills. Upon completion, students should be able to instruct, communicate effectively, and act as a liaison between the patient and community agencies.

MKT 120 Principles of Marketing

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products. Upon completion, students should be able to apply marketing principles in organizational decision making.

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	Work/	
Class Lab	Clinical Cred	lit

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MKT 221Consumer Behavior3003

Prerequisites: DRE 098 or RED 090

Corequisites: None

This course is designed to describe consumer behavior as applied to the exchange processes involved in acquiring, consuming, and disposing of goods and services. Topics include an analysis of basic and environmental determinants of consumer behavior with emphasis on the decision-making process. Upon completion, students should be able to analyze concepts related to the study of the individual consumer.

MKT 223	Customer Service
Prerequisites:	DRE 098 or RED 090
Corequisites:	None

This course stresses the importance of customer relations in the business world. Emphasis is placed on learning how to respond to complex customer requirements and to efficiently handle stressful situations. Upon completion, students should be able to demonstrate the ability to handle customer relations.

MKT 224	International Marketing	3	0	0	3
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Prerequisites: DRE 098 or RED 090

Corequisites: None

This course covers the basic concepts of international marketing activity and theory. Topics include product promotion, placement, and pricing strategies in the international marketing environment. Upon completion, students should be able to demonstrate a basic understanding of the concepts covered.

MKT	228	Service Marketing
TATE		but vice marketing

Prerequisites: DRE 098 or RED 090

Corequisites: None

This course is designed to define service marketing, demonstrate its importance, and note its special characteristics. Topics include basic building blocks of service marketing, distinctive aspects of services, and applications of service marketing mix. Upon completion, students should be able to demonstrate a basic understanding of the marketing mix as it applies to the service industry.

MNT 110 Intro to Maintenance Procedures 1 3 0 2

Prerequisites: None

Corequisites: None

This course covers basic maintenance fundamentals for power transmission equipment. Topics include equipment inspection, lubrication, alignment, and other scheduled maintenance procedures. Upon completion, students should be able to demonstrate knowledge of accepted maintenance procedures and practices according to current industry standards.

MNT 230Pumps & Piping Systems1302Prerequisites:None

Corequisites: None

This course covers pump installation and maintenance and related valves and piping systems. Topics include various types of pump systems and their associated valves, piping requirements, and other related topics. Upon completion, students should be able to select and install pump and piping systems and demonstrate proper maintenance and troubleshooting procedures.

MNT 240 Industrial Equip Troubleshooting 1 3 0 2

Prerequisites: ELC 112 or ELC 131

Corequisites: ELC 128 or ELN 260

This course covers the various service procedures, tools, instruments, and equipment necessary to analyze and repair typical industrial equipment. Emphasis is placed on electro-mechanical and fluid power equipment troubleshooting, calibration, and repair, including common techniques and procedures. Upon completion, students should be able to troubleshoot and repair industrial equipment.

MUS 110 Music Appreciation

3 0 0

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Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for humanities/fine arts in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

NAS 101 Nursing Assistant I

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Prerequisites: DRE 098

Corequisites: None

This course introduces basic nursing skills required to provide personal care for patients, residents, or clients in a health care setting. Topics include communications, safety, patients' rights, personal care, vital signs, elimination, nutrition, emergencies, rehabilitation, and mental health. Upon completion, students should be able to demonstrate skills necessary to qualify as a Nursing Assistant I with the North Carolina Nurse Aide I Registry.

Note: This is a certificate-level course.

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NAS 102 **Nursing Assistant II** 3 2 6 6 Prerequisites: DRE 098, NAS 101, and must have successful completion of Nurse Aide I training program & current Nurse Aide I listing on DHSR.

Corequisites: None

This course provides training in selected advanced nursing assistant procedures. Emphasis is placed on sterile techniques, respiratory procedures, catheterizations, wound and trach care, irrigations, and ostomy care. Upon completion, students should be able to demonstrate skills necessary to qualify as a Nursing Assistant II with the North Carolina Board of Nursing. Note: This is a certificate-level course.

NET 125 1 4 0 **Introduction to Networks**

Prerequisites: DMA 010-040 or MAT 070, DRE 097 Corequisites: DRE 098

This course introduces the networking field. Emphasis is placed on network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.

Operating Systems Concepts NOS 110 2 3 0 3

Prerequisites: DMA 010-040 or MAT 070, DRE 097

Corequisites: DRE 098

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is place on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems.

NOS	120	Linux/UNIX Single User	2	2	0
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Prerequisites: CTS 120

Corequisites: None

This course develops the necessary skills for students to develop both GUI and command line skills for using and customizing a Linux workstation. Topics include Linux file system and access permissions, GNOME Interface, VI editor, X Window System expression pattern matching, I/O redirection, network and printing utilities. Upon completion, students should be able to customize and use Linux systems for command line requirements and desktop productivity roles.

Windows Single User NOS 130

2 2 0 3

Prerequisites: CTS 120

Corequisites: None

This course introduces operating system concepts for single-user systems. Topics include hardware management, file and memory management, system configuration/optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a single-user environment.

			Work/ Class Lab Clinical Credit					
NOS 230	Windows Administration I		2	2	0	3		
Prerequisites:	NOS 130							
Corequisites:	None							
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This course covers the installation and administration of a Windows Server network operating system. Topics include managing and maintaining physical and logical devices, access to resources, the server environment, managing users, computers, and groups, and Managing/Implementing Disaster Recovery. Upon completion, students should be able to manage and maintain a Windows Server environment.

NPO 110 Introduction to Nonprofit Management 3 0 0 3

Prerequisites: None

Corequisites: None

This course provides an overview of the nonprofit sector and its role in society. Topics include growth and development, organizational structure, and working with diverse communities. Upon completion, students should be able to demonstrate an understanding of the nonprofit sector and its impact on communities.

NPO 111	Governance & Leadership	3	0	0	3
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Prerequisites: NPO 110

Corequisites: None

This course introduces leadership roles and their relation to governance issues in nonprofit organizations. Topics include board interactions with staff, shared governance, and stewardship. Upon completion, students should be able to identify and assess the leader's role in bringing about significant organizational and societal changes through non-profit organizations.

NPO115Nonprofit Financial Management3003

Prerequisites: NPO 110 and ACC 120

Corequisites: None

This course introduces students to accounting, financial, and related administrative issues that are unique to nonprofit organizations. Topics include fund accounting, cash flow planning, budgeting, internal controls, and fundamentals of endowment and investment management. Upon completion students should have a basic understanding of the financial tools needed for successful management of a nonprofit organization.

			Work/ Class Lab Clinical Credit						
NPO	120	Fundraising/Stewardship	3	0	0	3			
Prereq	uisites:	None							
Corea	uisites:	None							

This course introduces the principles, strategies, and practice of fundraising and stewardship in nonprofit organizations. Topics include private/public donor cultivation and research, donor database management, special events, planned giving, annual and capital campaigns and software and tracking mechanisms. Upon completion, students should be able to assist in the development of relationship-building strategies and funding plans.

NPO 215 NPO Advocacy & Public Policy 3 0 0 3

Prerequisites: None

Corequisites: None

This course examines the public policy process and the historic role nonprofits have played in public policy and social change. Topics include policy formulation, implementation and analysis, and the relationship between nonprofit, government, and private sectors. Upon completion, students should understand the role of public policy used by nonprofit organizations to accomplish their missions and affect social change.

NPO 225 Community Engagement 3 0 0 3

Prerequisites: None

Corequisites: None

This course provides an introduction to the use of relationship development, concepts, and strategies in the nonprofit sector. Topics include speech-writing and media usage, print and electronic communications, and multi-media presentations. Upon completion, students should be able to disseminate information to increase the awareness and support of the nonprofit organization.

NUR 101Practical Nursing I7

Prerequisites: Admission to the Practical Nursing program.

Corequisites: BIO 165

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including assessment, clinical decision making, professional behaviors, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching/learning, safety, ethical principles, legal issues, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course. *Note: This is a diploma-level course*.

NUR 102 Practical Nursing II

Prerequisites: NUR 101

Corequisites: BIO 166

This course is designed to further develop the concepts within the three domains of the individual, nursing, and healthcare. Emphasis is placed on the concepts within each domain including clinical

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decision making, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching and learning, accountability, safety, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

Note: This is a diploma-level course.

	Class	v s Lab Cli	Work/ inical (Credit
NUR 103 Practical Nursing III	6	0	9	9
Prerequisites: NUR 102				
Corequisites: None				
This course is designed to assimilate the concepts within the	e three	domains	of the	individ
	• 1	1 1		1

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on biophysical and psychosocial concepts, professional behaviors, healthcare systems, health policy, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide safe, quality, and individualized entry level nursing care.

Note: This is a diploma-level course.

NUR 111Intro to Health Concepts466

Prerequisites: Admission to the Associate Degree Nursing program Corequisites: BIO 165, CIS 110, PSY 150

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 112 Health-Illness Concepts

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Prerequisites: NUR 111

Corequisites: BIO 166, ENG 111, PSY 241

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of acid-base, metabolism, cellular regulation, oxygenation, infection, stress/coping, health-wellness-illness, communication, caring interventions, managing care, safety, quality improvement, and informatics. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 113Family Health Concepts3065DrarequisitageNUR 111NUR 112NUR 114

Prerequisites: NUR 111, NUR 112, NUR 114

Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect. Behaviors, development. Family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 114 Holistic Health Concepts

Prerequisites: NUR 111, NUR 112

Corequisites: BIO 166, ENG 111, PSY 241

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 211 Health Care Concepts

Prerequisites: NUR 111, NUR 112, NUR 113, NUR 114

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Corequisites: BIO 275, ENG 112

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 212 Health Systems Concepts

Prerequisites: NUR 111, NUR 112, NUR 113, NUR 114, NUR 211

Corequisites: BIO 275, ENG 112

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 213 **Complex Health Concepts** 4 3 15 10 Prerequisites: NUR 111, NUR 112, NUR 113, NUR 114, NUR 211, and NUR 212

Corequisites: SOC 210

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care.

OST	080	Keyboarding Literacy	1	2	0	2
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Prerequisites: None

Corequisites: None

This course is designed to develop elementary keyboarding skills. Emphasis is placed on mastery of the keyboard. Upon completion, students should be able to demonstrate basic proficiency in keyboarding.

OST	122	Office Computations	1	2	0	3
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Prerequisites: None

Corequisites: None

This course covers the keypad touch method using the electronic calculator (10-key) and mathematical functions used in office applications. Topics may include budgets, discounts, purchasing, inventory, and petty cash. Upon completion, students should be able to solve a wide variety of numerical problems commonly encountered in an office setting.

OST 131 **Keyboarding**

Prerequisites: 25 NWPM on keyboarding placement test Corequisites: None

This course covers basic keyboarding skills. Emphasis is placed on the touch system, correct techniques, and development of speed and accuracy. Upon completion, students should be able to key at an acceptable speed and accuracy level using the touch system. This course also includes setting and using tabs, formatting business letters, and formatting interoffice memorandums.

Keyboard Skill Building OST 132

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Prerequisites: OST 131

Corequisites: None

This course is designed to increase speed and improve accuracy in keyboarding. Emphasis is placed on diagnostic tests to identify accuracy and speed deficiencies followed by corrective drills. Upon completion, students should be able to keyboard rhythmically with greater accuracy and speed.

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	Work/ Class Lab Clinical Credit			
OST 133 Advanced Keyboard Skill Building	1	2	0	2
Prerequisites: OST 132				
Corequisites: None				
This course is designed to increase speed and improve accuracy requirements. Emphasis is placed on individualized diagnost completion, students should be able to keyboard with greater sp five-minute timed writings and skill-development paragrap formatting, itineraries, minutes of meetings, reports with en resumes.	ic and eed and bhs. Th	prescr accuration accuration accuration accuration accuration accurate accu	iptive d acy as m urse als	rills. Upon neasured by o includes
OST 134 Text Entry & Formatting	2	2	0	3
Prerequisites: OST 131				
Corequisites: OST 132				1.0
This course is designed to provide skills needed to increase spee	· .			
documents. Topics include letters, memos, tables, and business reshould be able to produce documents and key timed writing	-	-	-	
employability.	,5 at sp			Surdie with
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OST 136 Word Processing	2	2	0	3

OST 1	136	Word Processing	2	2	0
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Prerequisites: CIS 070

Corequisites: None

This course is designed to introduce word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be able to work effectively in a computerized word processing environment.

OST 137 **Office Applications I**

2 2 0 3

Prerequisites: None

Corequisites: None

This course introduces the concepts and functions of software that meets the changing needs of the community. Emphasis is placed on the terminology and use of software through a hands-on approach. Upon completion, students should be able to use software in a business environment.

OST 145 Social Media for Office Prof	2	2	0	3
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Prerequisites: CIS 110 or OST 137

Corequisites: None

This course is designed to introduce the office professional to the concepts of social media. Topics include goal setting and strategies, identifying target audiences, rules of engagement, blogs, podcasts and webinars, sharing videos, pictures, and images, social networks, mobile computing, and social media monitoring. Upon completion, students should be able to create and utilize social media tools in the workplace setting.

Work/
Class Lab Clinical Credit

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OST	164	Office Editing	3	0	0	3
Prereq	uisites:	OST 131				

Corequisites: None

This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text.

OST 184 Records Management

Prerequisites: None

Corequisites: None

This course includes the creation, maintenance, protection, security, and disposition of records stored in a variety of media forms. Topics include alphabetic, geographic, subject, and numeric filing methods. Upon completion, students should be able to set up and maintain a records management system.

OST 223	Admin Office Transcription I	2	2	0	3
Prerequisites	: ENG 111, OST 134, OST 136, OST 164				

Corequisites: None

This course provides experience in transcribing documents. Emphasis is placed on appropriate formatting, advanced text editing skills, and transcription techniques. Upon completion, students should be able to transcribe office documents.

OST 233 Office Publications Design 2 2 0 3

Prerequisites: OST 136

Corequisites: None

This course provides entry-level skills in using software with desktop publishing capabilities. Topics include principles of page layout, desktop publishing terminology and applications, and legal and ethical considerations of software use. Upon completion, students should be able to design and produce professional business documents and publications.

OST 236 Advanced Word Processing

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Prerequisites: OST 136

Corequisites: None

This course develops proficiency in the utilization of advanced word processing functions. Emphasis is placed on advanced word processing features. Upon completion, students should be able to produce a variety of complex business documents.

		Class	Work/ Class Lab Clinical Credit			
	6 Professional Development tes: ENG 111	3	0	0	3	
Prerequisites: ENG 111 Corequisites: None This course covers the personal competencies and qualities needed to project a professional image in the office. Topics include interpersonal skills, health lifestyles, appearance, attitude, personal and professional growth, multicultural awareness, and professional etiquette. Upon completion, students should be able to demonstrate these attributes in the classroom, office, and society.						
OST 28	9 Office Admin Capstone	2	2	0	3	

Prerequisites: ENG 111, OST 134, OST 136, OST 164, OST 236 Corequisites: None

This course is designed to be a capstone course for the office professional and provides a working knowledge of administrative office procedures. Emphasis is placed on written and oral communication skills, office software applications, office procedures, ethics, and professional development. Upon completion, students should be able to adapt in an office environment.

PAD151Intro to Public Administration3003

Prerequisites: None

Corequisites: None

This course includes an overview of the role of the public administrator in government and an examination of the development and implementation of public policy. Topics include public personnel administration and management, decision making, public affairs, ethics, organizational theories, budgetary functions within governmental agencies, and other governmental issues. Upon completion, students should be able to explain the functions of government in society and in the lives of people composing that society.

PAD 152 Ethics in Government

3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces the ethical issues and problems within the public administration field. Emphasis is placed on building analytical skills, stimulating moral imagination, and recognizing the discretionary power of the administrator's role. Upon completion, students should be able to understand the moral dimensions of public administrative decision making.

PAD251Public Finance & Budgeting3003

Prerequisites: None

Corequisites: None

This course provides an overview of the public finance and budgeting processes used in the allocation of public resources to meet differing public interests. Topics include the political environment, government expenditures, revenues, taxation, budgetary process theories and techniques, and the relation of government finance to the economy. Upon completion, students should be able to recognize impacts of government revenue and expenditure policies and understand the role of budgeting in executing governmental policy.

PAD 252	Public Policy Analysis	3	0	0	3
Prerequisites:	None				

Corequisites: None

This course is a study of methods and techniques used to determine the effectiveness of public programs. Emphasis is placed on the concept of ecology and environmental impact, informal groups and information networks, and the relationship between public and private sectors. Upon completion, students should be able to analyze case studies with the use of political analysis techniques.

PED	110	Fit and Well for Life	1	2	0	2
Prerea	uisites:	None				

Corequisites: None

This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

PED 120 Walking for Fitness

0 3 0 1

Prerequisites: None

Corequisites: None

This course introduces fitness through walking. Emphasis is placed on stretching, conditioning exercises, proper clothing, fluid needs, and injury prevention. Upon completion, students should be able to participate in a recreational walking program.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

PED 121 Walk, Jog, Run

0 3 0 1

Prerequisites: None

Corequisites: None

This course covers the basic concepts involved in safely and effectively improving cardiovascular fitness. Emphasis is placed on walking, jogging, or running as a means of achieving fitness. Upon completion, students should be able to understand and appreciate the benefits derived from these activities.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

PED 142 **Lifetime Sports** 0 2 0 1 Prerequisites: None

Corequisites: None

This course is designed to give an overview of a variety of sports activities. Emphasis is placed on the skills and rules necessary to participate in a variety of lifetime sports. Upon completion, students should be able to demonstrate an awareness of the importance of participating in lifetime sports activities.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

Team Sports PED 210

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Prerequisites: None

Corequisites: None

This course introduces the fundamentals of popular American team sports. Emphasis is placed on rules, equipment, and motor skills used in various sports. Upon completion, students should be able to demonstrate knowledge of the sports covered. Note: In accordance with the Comprehensive Articulation Agreement, this course has been

approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

PHI 210 **History of Philosophy**

3 0 0 3

Prerequisites: ENG 111

Corequisites: None

This course introduces fundamental philosophical issues through an historical perspective. Emphasis is placed on such figures as Plato, Aristotle, Lao-Tzu, Confucius, Augustine, Aquinas, Descartes, Locke, Kant, Wollstonecraft, Nietzsche, and Sartre. Upon completion, students should be able to identify and distinguish among the key positions of the philosophers studied. Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., A.A.S. degree programs.

PHI 240 **Introduction to Ethics**

3 3 0 0

Prerequisites: ENG 111

Corequisites: None

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on moral theories such as consequentialism, deontology, and virtue ethics. Upon completion, student should be able to apply various ethical theories to moral issues such as abortion, capital punishment, poverty, war, terrorism, the treatment of animals, and issues arising from new technologies.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for humanities/fine arts in A.A. and A.S. degree programs. This course has been approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

PHY 110 Conceptual Physics

3 0 0 3

Prerequisites: DMA 010-060 or MAT 070, DRE 098 or RED 090

Corequisites: PHY 110A

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement for A.A.S. degree programs.

PHY 110A Conceptual Physics Lab

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Prerequisites: None

Corequisites: PHY 110

This course is a laboratory for PHY 110. Emphasis is placed on laboratory experiences that enhance materials presented in PHY 110. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in PHY 110.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement for A.A.S. degree programs.

PHY 122 Applied Physics II

3 2 0 4

Prerequisites: None

Corequisites: MAT 171

This algebra-based course introduces fundamental physical concepts as applied to industrial and service technology fields. Emphasis is placed on systems of units, problem-solving methods, graphical analysis, static electricity, AC and DC circuits, magnetism, transformers, AC and DC motors, and generators. Upon completion, students should be able to demonstrate an understanding of the principles studied as applied in industrial and service fields.

PHY 151 College Physics I

Prerequisites: DRE 098 or RED 090, MAT 171

3 2 0 4

Corequisites: None

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vectors, linear kinematics and dynamics, energy, power, momentum, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural

sciences in the A.S. degree program. This course has been approved to meet the natural sciences requirement for A.A.S. degree programs.

	Work/					
	Class	Lab C	linical (Credit		
PHY 152 College Physics II	3	2	0	4		
Prerequisites: PHY 151						

Prerequisit Corequisites: None

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in the A.S. degree program. This course has been approved to meet the natural sciences requirement for A.A.S. degree programs.

PHY 251 **General Physics I**

3 3 0

4

Prerequisites: MAT 271

Corequisites: MAT 272

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vector operations, linear kinematics and dynamics, energy, power, momentum, rotational mechanics, periodic motion, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in the A.S. degree program. This course has been approved to meet the natural sciences requirement for A.A.S. degree programs.

PHY 252 **General Physics II**

3 3 0 4

Prerequisites: MAT 272, PHY 251

Corequisites: None

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in the A.S. degree program. This course has been approved to meet the natural sciences requirement for A.A.S. degree programs.

PKG 130Basic Electronics1302Prerequisites:None

Corequisites: None

This course covers the basic electronic components of industrial systems. Topics include safety, PC boards, diodes, power supplies, transducers, transistors, SCRs, Triacs, amplifiers, FETs, ICs, fiber optics, and other related topics. Upon completion, students should be able to demonstrate a working knowledge of basic interfacing and controls associated with industrial machinery electronics.

PLA 120 Injection Molding 2 3 0 3

Prerequisites: DMA 010-030 or MAT 060, DRE 097 or RED 080 Corequisites: None

This course provides theory and processing experience with the injection molding process. Topics include machine type, molds, controls, machine polymer part relationship, molding factors, troubleshooting, and molding problems/solutions. Upon completion, students should be able to demonstrate an understanding of machine setup and operation and be able to optimize common injection molding machines.

PMT 110 Introduction to Project Management 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces project management fundamentals and principles for organizing, planning, implementing, and controlling non-routine activities to achieve schedule, budget and performance objectives. Topics include project life cycles; work breakdown structures; responsibility matrixes; as well as planning and control methods such as PERT/CPM and Gantt charts. Upon completion, students should be able to demonstrate knowledge, strategies, and techniques needed to create and execute plans for project development and management.

PMT 210 Project Management Issues

2 2 0 3

Prerequisites: PMT 110

Corequisites: None

This course is designed to explore various development and management techniques and tools of integrated project schedules and plans. Emphasis is placed on project control methods from a scheduling perspective, including critical path networking, float analysis, and schedule performance predictability and accomplishment. Upon completion, students should have a clear understanding of accepted techniques for schedule development and management.

Work/
Class Lab Clinical Credit

PMT 215Project Management Leadership3003Prerequisites:PMT 110

Corequisites: None

This course provides an overview of the importance of project teams and human resource management in the planning, scheduling, and controlling of multi-project programs. Topics include the role of projects in organizations; alternative organizational systems; program management methodologies; team management and leadership; legal/ethical issues; and conflict identification/resolution. Upon completion, students should be able to identify and exhibit the behaviors needed for effective project management and team leadership.

POL110Introduction to Political Science3003

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces basic political concepts used by governments and addresses a wide range of political issues. Topics include political theory, ideologies, legitimacy, and sovereignty in democratic and non-democratic systems. Upon completion, students should be able to discuss a variety of issues inherent in all political systems and draw logical conclusions in evaluating these systems.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

POL 120 American Government

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course is a study of the origins, development, structure, and functions of American government. Topics include the constitutional framework, federalism, the three branches of government including the bureaucracy, civil rights and liberties, political participation and behavior, and policy process. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for social/behavioral sciences in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.*

Work/ Class Lab Clinical Credit

POL220International Relations300

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course provides a study of the effects of ideologies, trade, armaments, and alliances on relations among nation-states. Emphasis is placed on regional and global cooperation and conflict, economic development, trade, non-governmental organizations, and international institutions such as the World Court and UN. Upon completion, students should be able to identify and discuss major international relationships, institutions, and problems.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

PSY 150 General Psychology

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for social/behavioral sciences in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

PSY 237 Social Psychology

3 0 0 3

Prerequisites: PSY 150 or SOC 210

Corequisites: None

This course introduces the study of individual behavior within social contexts. Topics include affiliation, attitude formation and change, conformity, altruism, aggression, attribution, interpersonal attraction, and group behavior. Upon completion, students should be able to demonstrate an understanding of the basic principles of social influences on behavior.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

Work/
Class Lab Clinical Credit

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PSY 241 Developmental Psychology

Prerequisites: PSY 150

Corequisites: None

This course is a study of human growth and development. Emphasis is placed on major theories and perspectives as they relate to the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

PSY 281 Abnormal Psychology

0 0 3

Prerequisites: PSY 150

Corequisites: None

This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on terminology, classification, etiology, assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavioral patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques. *Note: In accordance with the Comprehensive Articulation Agreement, this course has been* approved to satisfy the general education requirement for social/behavioral science in A.A., A.S., and A.A.S. degree programs.

REL 110 World Religions

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course introduces the world's major religious traditions. Topics include Primal religions, Hinduism, Buddhism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. Note: In accordance with the Comprehensive Articulation Agreement, this course has been

approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

REL 111 **Eastern Religions**

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course introduces the major Asian religious traditions. Topics include Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and

A.A.S. degree programs.

Work/ **Class Lab Clinical Credit**

REL 112 Western Religions

3 0 0

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces the major western religious traditions. Topics include Zoroastrianism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

Introduction to Old Testament 0 0 3 **REL 211** 3 Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course is a survey of the literature of the Hebrews with readings from the law, prophets, and other writings. Emphasis is placed on the use of literary, historical, archeological, and cultural analysis. Upon completion, students should be able to use the tools of critical analysis to read and understand Old Testament literature.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

Introduction to New Testament REL 212

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course is a survey of the literature of first-century Christianity with readings from the gospels, Acts, and the Pauline and pastoral letters. Topics include the literary structure, audience, and religious perspective of the writings, as well as the historical and cultural context of the early Christian community. Upon completion, students should be able to use the tools of critical analysis to read and understand New Testament literature.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

REL 221 Religion in America

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course is an examination of religious beliefs and practice in the United States. Emphasis is placed on mainstream religious traditions and non-traditional religious movements from the Colonial period to the present. Upon completion, students should be able to recognize and appreciate the diversity of religious traditions in America.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A., A.S., and A.A.S. degree programs.

			Work/ Class Lab Clinical Credit			Credit
SAB	110	Substance Abuse Overview	3	0	0	3
Prereq	uisites:	None				
Corequ	isites:	None				
This co	ourse pr	ovides an overview of the core concepts in sub	stance abu	se and o	depende	nce. Topics
preven	tive me	story of drug use/abuse, effects on societal n asures. Upon completion, students should be a 1g abuse, addiction, prevention, and treatment.	able to den			

SAB 120Intake and Assessment300

Prerequisites: None

Corequisites: None

This course develops processes for establishment of client rapport, elicitation of client information on which therapeutic activities are based, and stimulation of client introspection. Topics include diagnostic criteria, functions of counseling, nonverbal behavior, collaterals and significant others, dual diagnosis, client strengths and weakness, uncooperative clients, and crisis interventions. Upon completion, students should be able to establish communication with clients, recognize disorders, obtain information for counseling, and terminate the counseling process.

SAB125Substance Abuse Case Management2203

Prerequisites: None

Corequisites: None

This course provides case management activities, including record keeping, recovery issues, community resources, and continuum of care. Emphasis is placed on establishing a systematic approach to monitor the treatment plan and maintain quality of life. Upon completion, students should be able to assist clients in the continuum of care as an ongoing recovery process and develop agency networking.

SAB 135 Addictive Processes 3

Prerequisites: None

Corequisites: None

This course explores the physical, emotional, psychological, and cultural aspects of the addictive process. Emphasis is placed on addictions to food, sex, alcohol, drugs, work, gambling, and relationships. Upon completion, students should be able to identify the effects, prevention strategies, and treatment methods associated with addictive disorders.

SAB240Substance Abuse in Client Services3003

Prerequisites: None

Corequisites: None

This course introduces systems of professional standards, values, and issues in substance abuse counseling. Topics include confidentiality, assessment of personal values, professional responsibilities, competencies, and ethics relative to multicultural counseling and research. Upon completion, students should be able to understand and discuss multiple ethical issues applicable to counseling and apply various decision-making models to current issues.

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SCI 090 **Skills for the Sciences** 2 2 0 3 Prerequisites: DMA 010-060 or MAT 060, DRE 097

Corequisites: DRE 098

This course is designed to provide fundamental skills necessary for entry into college-level science courses. Topics include scientific vocabulary, measurement, scientific notation, the scientific method for solving problems, collaborative skills, and applications to various areas of science. Upon completion, students should be able to demonstrate a readiness for college-level science courses.

SEC	110	Security Concepts	2	2	0	3
Prereq	uisites:	CTI 120				
Coroa	nicitor	Nono				

Corequisites: None

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy.

SEC 160	0 Security Administration I	2	2	0	3
Prerequisit	tes: SEC 110				
Corequisite	es: None				
This course provides an overview of security administration and fundamentals of designing					
security architectures. Topics include networking technologies, TCP/IP concepts, protocols,					

network traffic analysis, monitoring, and security best practices. Upon completion, students should be able to identify normal network traffic using network analysis tools and design basic security defenses.

SOC 210 **Introduction to Sociology** Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies.

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Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for social/behavioral sciences in A.A. and A.S. degree programs. This course has been approved to meet the social/behavioral sciences requirement in A.A.S. degree programs.

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SOC 213 Sociology of the Family

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

SOC 220 Social Problems

3 0 0

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course provides an in-depth study of current social problems. Emphasis is placed on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

SOC 225 Social Diversity

3 0 0 3

Prerequisites: DRE 098 or ENG 090 and RED 090 Corequisites: None

This course provides a comparison of diverse roles, interests, opportunities, contributions, and experiences in social life. Topics include race, ethnicity, gender, sexual orientation, class, and religion. Upon completion, students should be able to analyze how cultural and ethnic differences evolve and how they affect personality development, values, and tolerance.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

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Work/ Class Lab Clinical Credit

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SOC 240 Social Psychology

Prerequisites: PSY 150 or SOC 210

Corequisites: None

This course examines the influence of culture and social groups on individual behavior and personality. Emphasis is placed on the process of socialization, communication, conformity, deviance, interpersonal attraction, intimacy, race and ethnicity, small group experiences, and social movements. Upon completion, students should be able to identify and analyze cultural and social forces that influence the individual in a society.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for social/behavioral sciences in A.A., A.S., and A.A.S. degree programs.

SPA 111 Elementary Spanish I

3 0 0

Prerequisites: None

Corequisites: None

This course introduces the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A. and A.S. degree programs.

SPA 112 Elementary Spanish II

3 0 0 3

Prerequisites: SPA 111

Corequisites: None

This course is continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A. and A.S. degree programs.

SPA 120 Spanish for the Workplace 3 0

3 0 0

Prerequisites: None

Corequisites: None

This course offers applied Spanish for the workplace to facilitate basic communication with people whose native language is Spanish. Emphasis is placed on oral communication and career-specific vocabulary that targets health, business, and/or public service professions. Upon completion students should be able to communicate at a functional level with native speakers and demonstrate cultural sensitivity.

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SPA 161 Cultural Immersion

Prerequisites: SPA 111

Corequisites: None

This course explores Hispanic culture through intensive study on campus and field experience in a host country or area. Topics include an overview of linguistic, historical, geographical, sociopolitical, economic, and/or artistic concerns of the area visited. Upon completion, students should be able to exhibit first-hand knowledge of issues pertinent to the host area and demonstrate understanding of cultural differences.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

SPA 181 Spanish Lab 1

0 2 0 1

Prerequisites: None

Corequisites: None

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

SPA 182 Spanish Lab 2

0 2 0 1

Prerequisites: SPA 181

Corequisites: SPA 112

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate cultural awareness.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs.

SPA 211 Intermediate Spanish I

3 0 0

Prerequisites: SPA 112

Corequisites: None

This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A. and A.S.

degree programs. This course is approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

			Work/ Class Lab Clinical Credit				
SPA	212	Intermediate Spanish II	3	0	0	3	
Prerec	quisites:	SPA 211					
Coreq	uisites:	None					

This course provides a continuation of SPA 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for humanities/fine arts in A.A. and A.S. degree programs. This course is approved to meet the humanities/fine arts requirement in A.A.S. degree programs.

SWK 110	Introduction to Social Work	3	0	0	3
Prerequisites:	None				

Corequisites: None

This course examines the historical development, values, orientation, and professional standards of social work and focuses on the terminology and broader systems of social welfare. Emphasis is placed on the various fields of practice including those agencies whose primary function is financial assistance, corrections, mental health, and protective services. Upon completion, students should be able to demonstrate an understanding of the knowledge, values, and skills of the social work professional.

SWK 113	Working with Diversity	3	0	0	3
SWK 113	working with Diversity	3	U	U	3

Prerequisites: DRE 098 or ENG 090 and RED 090

Corequisites: None

This course examines and promotes understanding, sensitivity, awareness, and knowledge of human diversity. Emphasis is placed on professional responsibilities, duties, and skills critical to multicultural human services practice. Upon completion, students should be able to integrate and expand knowledge, skills, and cultural awareness relevant to diverse populations.

SWK 115Community Resources2203Prerequisites:None

Corequisites: None

This course introduces community resources essential to social work practice. Emphasis is placed on awareness of and interaction with community service personnel. Upon completion, students should be able to identify resources and assess critical community needs.

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SWK 214 Social Work Law

Prerequisites: SWK 110

Corequisites: None

This course introduces the major provisions of social services law, current trends, legislative developments, and court procedures. Emphasis is placed on the interpretation of the laws and court decisions related to various social services populations. Upon completion, students should be able to interpret these laws and their implications for social services practice.

SWK 220Social Work Issues in Client Services3003

Prerequisites: None

Corequisites: None

This course introduces the professional standards, values, and issues in social services. Topics include confidentiality, assessment of personal values, professional responsibilities, competencies, and ethics. Upon completion, students should be able to understand and discuss multiple ethical issues applicable to social work and apply various decision-making models to current issues.

WBL 111 Work-Based Learning I

0 0 10

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Prerequisites: 9 or 14 SHC in the major core courses depending on program Corequisites: WBL 115

This course provides work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

WBL 112 Work-Based Learning I

0 0 20 2

Prerequisites: 9 SHC in the major core courses

Corequisites: None

This course provides work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

WBL 115Work-Based Learning Seminar I1001

Prerequisites: 9 or 14 SHC in the major core courses depending on program Corequisites: WBL 111 or WBL 112

This course provides an opportunity to discuss fieldwork experiences with peers and faculty. Emphasis is placed on discussing application of concepts and principles from related course content to the fieldwork placement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes required in fieldwork experiences

WBL 121Work-Based Learning II00101

Prerequisites: 14 SHC in the major core courses

Corequisites: WBL 125

This course provides work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

WBL 125Work-Based Learning Seminar II1001

Prerequisites: 14 SHC in the major core courses

Corequisites: WBL 121

This course provides an opportunity to discuss fieldwork experiences with peers and faculty. Emphasis is placed on discussing application of concepts and principles from related course content to the fieldwork placement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes required in fieldwork experiences.

WEB 110Internet/Web Fundamentals2203

Prerequisites: None

Corequisites: None

This course introduces World Wide Web Consortium (W3C) standard markup language and services of the Internet. Topics include creating web pages, search engines, FTP, and other related topics. Upon completion, students should be able to deploy a hand-coded website created with mark-up language, and effectively use and understand the function of search engines.

WEB 140Web Development Tools220

Prerequisites: CTI 110

Corequisites: None

This course provides an introduction to web development software suites. Topics include the creation of web sites and applets using web development software. Upon completion, students should be able to create entire web sites and supporting applets.

WEB 141 Mobile Interface Design

2 2 0 3

Prerequisites: CTI 110

Corequisites: None

This course covers current design standards and emerging approaches related to the design and development of user interfaces for mobile devices. Emphasis is placed on research and evaluation of standard and emerging practices for effective interface and user experience design. Upon completion, students should be able to design effective and usable interfaces for mobile devices.

	Work/ Class Lab Clinical Credit			
WEB 230 Implementing Web Serv Prerequisites: NET 125, NOS 120, SEC 110 Corequisites: None This course covers website and web server architecture. Topics administration, and security of web servers, services and sites. be able to effectively manage the web services deploymen standards.	include Upon c	ompleti	tion, con	ents should
WEB 250Database Driven WebsitesPrerequisites:CTI 110Corequisites:DBA 110 and WEB 140 or DBA 120	2	2	0	3

This course introduces dynamic (database-driven) website development. Topics include the use of basic database CRUD statements (create, read, update and delete) incorporated into web applications, as well as in software architecture principles. Upon completion, students should be able to design and develop database driven web applications according to industry standards.

WLD 110Cutting Processes1302

Prerequisites: None

Corequisites: None

This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness.

WLD 112Basic Welding Processes130

Prerequisites: None

Corequisites: None

This course introduces basic welding and cutting. Emphasis is placed on beads applied with gases, mild steel fillers, and electrodes and the capillary action of solder. Upon completion, students should be able to set up welding and oxy-fuel equipment and perform welding, brazing, and soldering processes.

WLD 115 SMAW (Stick) Plate

2 9 0

Prerequisites: None

Corequisites: None

This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.

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Work/ Class Lab Clinical Credit

WLD 117Industrial SMAW1403Prerequisites:WLD 112

Corequisites: None

This course introduces the SMAW (stick) process for joining carbon steel components for industrial applications. Topics include padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to safely perform SMAW fillet and groove welds on carbon steel plates with prescribed electrodes.

WLD 121GMAW (MIG) FCAW/Plate26

Prerequisites: None

Corequisites: None

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

WLD 131 GTAW (TIG) Plate

2 6 0 4

0

Prerequisites: None

Corequisites: None

This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.

WLD 132 GTAW (TIG) Plate/Pipe

1 6 0 3

Prerequisites: WLD 131

Corequisites: None

This course is designed to enhance skills with the gas tungsten arc (TIG) welding process. Topics include setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe. Upon completion, students should be able to perform GTAW welds with prescribed electrodes and filler materials on various joint geometry.

WLD 141 Symbols & Specifications

2 2 0

Prerequisites: None

Corequisites: None

This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding.

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WLD 151 Fabrication I

Prerequisites: WLD 141

Corequisites: None

This course introduces the basic principles of fabrication. Emphasis is placed on safety, measurement, layout techniques, cutting, joining techniques, and the use of fabrication tools and equipment. Upon completion, students should be able to perform layout activities and operate various fabrication and material handling equipment.

WLD 215 SMAW (Stick) Pipe

Prerequisites: WLD 115

Corequisites: None

This course covers the knowledge and skills that apply to welding pipe. Topics include pipe positions, joint geometry, and preparation with emphasis placed on bead application, profile, and discontinuities. Upon completion, students should be able to perform SMAW welds to applicable codes on carbon steel pipe with prescribed electrodes in various positions.

WLD 231 GTAW (TIG) Pipe

1 6 0 3

Prerequisites: WLD 132

Corequisites: None

This course covers gas tungsten arc welding on pipe. Topics include joint preparation and fit up with emphasis placed on safety, GTAW welding technique, bead application, and joint geometry. Upon completion, students should be able to perform GTAW welds to applicable codes on pipe with prescribed electrodes and filler materials in various pipe positions.

WLD 262 Inspection & Testing

2 2 0 3

Prerequisites: None

Corequisites: None

This course introduces destructive and non-destructive testing methods. Emphasis is placed on safety, types and methods of testing, and the use of testing equipment and materials. Upon completion, students should be able to understand and/or perform a variety of destructive and non-destructive testing processes.