The Curriculum

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 Guided Studies 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 General Education degree is awarded for successful completion of a 65 semester hour individualized program of study with emphasis on personal interest, growth and development.
3. An Associate in Applied Science degree is awarded for successful completion of a 64 – 76 semester hour curriculum.
4. A diploma is awarded for successful completion of a 36 – 48 semester hour curriculum.
5. 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 (AA) and Associate in Science (AS) 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)
Associate in Science (A10400)

GENERAL EDUCATION PROGRAM

The General Education program is designed for individuals wishing to broaden their education, with emphasis on personal interest, growth and development. The two-year General Education program provides students opportunities to study English, literature, fine arts, philosophy, social science, science and mathematics at the college level. All courses in the program are college-level courses. Many of the courses are equivalent to college transfer courses; however, the program is not principally designed for college transfer. Courses must be at the 110-199 or 210-299 level. Successful completion of 65 semester hour credits leads to an Associate in General Education degree (AGE).

Associate in General Education (A10300)

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)
Associate Degree Nursing (A45110)
Biotechnology (A20100) (collaborative program*)
Business Administration (A25120)
Computer Engineering Technology (A40160)
Computer Information Technology (A25260)
Criminal Justice Technology (A55180)
Early Childhood Education (A55220)
Electronics Engineering Technology (A40200)
General Occupational Technology (A55280)
Global Logistics Technology (A25170) (collaborative program*)
Healthcare Management Technology (A25200)
Human Services Technology (A45380)
Industrial Systems Technology (A50240)
Mechanical Engineering Technology (A40320)
Medical Assisting (A45400)
~~Networking Technology (A25340)~~ no longer offered
Office Administration (A25370)
School-Age Education (A55440)
~~Web Technologies (A25290)~~ no longer offered

** These programs are offered in collaboration with another community college.*

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.

Associate in Arts Transfer Core (D10100)
Associate in Science Transfer Core (D10400)
Computer Information Technology (D25260)
Criminal Justice Technology (D55180)
Electrical/Electronics Technology (D35220)
Industrial Systems Technology (D50240)
Machining Technology (D50300)
Mechanical Engineering Technology (D40320)
~~Networking Technology (D25340)~~ no longer offered
Practical Nursing (D45660)
~~Web Technologies (D25290)~~ no longer offered
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.

Business Administration (C25120)
Computer Information Technology (C25260)
Early Childhood Education (C55220)
Electrical/Electronics Technology (C35220)
Entrepreneurship (C25490)
Industrial Systems Technology (C50240)
Infant/Toddler Care (C55290)
Lateral Entry (C55430)
Machining Technology (C50300)
Mechanical Engineering Technology/Computer Aided Drafting (C40320)
Medical Assisting (C45400)
~~Networking Technology/CISCO Certificate (C25340)~~ no longer offered
Nursing Assistant (C45480)
Office Administration (C25370)
~~Web Technologies/Web Design (C25290)~~ no longer offered
Welding Technology (C50420)

DISTANCE LEARNING OPTIONS

Richmond Community College actively participates in the North Carolina Community College System (NCCCS) Virtual Learning Community and continues to expand its Distance Learning effort via the Internet. Newcomers to distance learning courses must complete an online orientation session at the beginning of the semester to familiarize themselves with the delivery system.

The RCC home page on the Internet (www.richmondcc.edu) provides a quick link to distance learning courses and to the Instructional Technologies Center web page. In distance learning courses, the Internet provides the primary communication link between the student and the faculty member.

Students with a strong understanding of the Internet may find this mode of course delivery an invaluable aid in completing degree requirements. Students who enroll in Internet courses should be extremely self-motivated and self-disciplined. Students will work independently and communicate with the faculty member and classmates via email, list servers, online classrooms, group pages, and chat rooms. They also have access to library materials via the library's web page (RCC's Learning Resources Center link on the college's home page). Students must visit the library for a password to access some areas of research.

Each semester, the distance learning opportunities are listed in the published course schedule with the general course offerings. Courses delivered through the Internet (the "World Wide Web") are usually designated with a "W#" section designation (sections might be assigned second numbers: W1, W2, etc.). RCC also offers a number of courses in a "hybrid" distance learning format. In a hybrid class, students meet in a traditional classroom setting for usually 50% of the assigned contact hours for the course, then complete the other assigned contact hours online in an Internet delivery format. Hybrid learning opportunities are usually designated with an "H#" section designation (sections might be assigned section numbers: H1, H2, etc.). RCC also offers courses in a traditional classroom setting but through the NC Information Highway (NCIH) distance learning format. Courses offered via NCIH are scheduled in a Video Conferencing classroom with traditional meeting times. The instructor of the course will also be in a Video Conferencing classroom, but not necessarily the same one as the student. NCIH learning opportunities are usually designated with a "V#" section designation (sections might be assigned section numbers: V1, V2, etc.).

Students enrolling in any type of distance learning course must follow the regular admissions and registration processes, pay regular tuition and fees, and meet all course prerequisites.

Developmental Education

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 RED 070 and RED 080 should postpone taking any curriculum courses until they progress to RED 090. (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. (4) Students taking RED 070 may take ENG 080 at the same time.

DEVELOPMENTAL COURSES

(DAY / EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
BIO	094	Concepts of Human Biology	3	2	0	4
ENG	080	Writing Foundations	3	2	0	4
ENG	090	Composition Strategies	3	0	0	3
ENG	090A	Composition Strategies Lab	0	2	0	1
MAT	050	Basic Math Skills	3	2	0	4
MAT	060	Essential Mathematics	3	2	0	4
MAT	070	Introductory Algebra	3	2	0	4
MAT	080	Intermediate Algebra	3	2	0	4
OST	080	Keyboarding Literacy	1	2	0	2
RED	070	Essential Reading Skills	3	2	0	4
RED	080	Introduction to College Reading	3	2	0	4
RED	090	Improved College Reading	3	2	0	4
SCI	090	Skills for the Sciences	2	2	0	3

Exit Requirements

Students must earn a final grade of "C" (78) or better to exit any developmental English, mathematics, or reading course. A student whose final grade is below "C" may not progress to the next level of that course sequence and, therefore, will receive a grade of "F." Grades of "D" are not given in developmental courses.

Associate Degree Curricula

ASSOCIATE IN ARTS (A10100)

(College Transfer Curricula)

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 (A.S.). These programs are designed to offer students the freshman and sophomore years of a baccalaureate-track program. In order to receive an Associate in Arts (A.A.) or Associate in Science (A.S.) degree students must have a grade of "C" or better in all courses.

The Associate in Arts program is designed for students desiring a bachelor's degree and/or pre-professional 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.

TRANSFER CORE DIPLOMA (D10100)

Students who successfully complete the 44-hour General Education Core with a grade of "C" or better in each course may be awarded the Associate in Arts Transfer Core diploma. As defined by the Comprehensive Articulation Agreement between the UNC System and the North Carolina Community College System and approved by the North Carolina Legislature, the 44-hour General Education Core includes study in the areas of English composition, humanities and fine arts, mathematics, natural sciences, and social and behavioral sciences.

ACADEMIC PRE-MAJORS

Counselors and advisors can help students design a program of study. See http://www.northcarolina.edu/content.php/assessment/reports/student_info/caa.htm for additional information.

ASSOCIATE IN ARTS GENERAL EDUCATION CORE

(44 Semester Hours Credit)

English Composition (6 SHC)

			Class	Lab	Work Exp/ Clinical	Credit
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
or						
ENG	113	Literature-Based Research	3	0	0	3
or						
ENG	114	Professional Research & Reporting	3	0	0	3

Humanities/Fine Arts (12 SHC)
Four (4) courses from at least **three (3)** discipline areas are required. **At least one (1) course must be a literature course.**

			Class	Lab	Work Exp/ Clinical	Credit
ART	111	Art Appreciation	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
DRA	111	Theatre Appreciation	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
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German 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
MUS	110	Music Appreciation	3	0	0	3
PHI	210	History of Philosophy	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
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

* 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

Social Sciences (12 SHC)
Four (4) courses from at least **three (3)** discipline areas are required. **At least one (1) course must be a history course.**

			Class	Lab	Work Exp/ Clinical	Credit
ANT	220	Cultural Anthropology	3	0	0	3
ECO	151	*Survey of Economics	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3
HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations 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
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
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

*ECO 151 is for those students who have not received credit for ECO 251 or ECO 252.

Natural Sciences/Mathematics (14 SHC)
Natural Sciences (8 SHC)
Select at least one (1) course from the biological sciences and at least one (1) course from the physical sciences, including accompanying labs.

			Class	Lab	Work Exp/ Clinical	Credit
Biological Sciences						
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
Physical Sciences						
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
CHM	131	Introduction to Chemistry	3	0	0	3

CHM	131A	Introduction to Chemistry Lab	0	3	0	1
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
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

Mathematics (6 SHC)

At least one (1) course in introductory mathematics is required; the other course may be selected from among other quantitative subjects, such as computer science or statistics.

			Class	Lab	Work Exp/ Clinical	Credit
Mathematics						
MAT	140	Survey of Mathematics	3	0	0	3
MAT	165	Finite Mathematics	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4
Quantitative Subjects						
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming & Logic	2	3	0	3
MAT	155	Statistical Analysis	3	0	0	3

OTHER REQUIRED HOURS
(20-21 SEMESTER HOURS CREDIT)

College Orientation (1 SHC)

			Class	Lab	Work Exp/ Clinical	Credit
ACA	111	College Student Success	1	0	0	1
ACA	118	College Study Skills	1	2	0	2
ACA	122	College Transfer Success	1	0	0	1

Electives and other required courses (20 SHC)

Select a minimum of twenty (20) semester hours. Students may take additional courses in the preceding Social//Behavioral Sciences, Humanities/Fine Arts, and Natural Sciences/Mathematics or any of the courses listed below. The following courses may transfer to some senior institutions. Students should check with their advisors and senior institutions before taking these courses.

			Class	Lab	Work Exp/ Clinical	Credit
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ART	131	Drawing I	0	6	0	3
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	228	Business Statistics	2	2	0	3
CHM	251	Organic Chemistry I	3	3	0	4
CHM	252	Organic Chemistry II	3	3	0	4
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	141	Corrections	3	0	0	3
CSC	151	JAVA Programming	2	3	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	216	Foundations of Education	3	2	0	4
EDU	221	Children with Exceptionalities	3	0	0	3
ENG	125	Creative Writing I	3	0	0	3
ENG	272	Southern Literature	3	0	0	3
ENG	273	African-American Literature	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	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	3
HIS	236	North Carolina History	3	0	0	3
MAT	145	Analytical Mathematics	3	0	0	3
MAT	167	Discrete Mathematics	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
MAT	172A	Precalculus Trig Lab	0	2	0	1
MAT	280	Linear Algebra	3	0	0	3
MAT	285	Differential Equations	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	142	Lifetime Sports	0	2	0	1
PED	210	Team Sports	0	3	0	1
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

ASSOCIATE IN GENERAL EDUCATION (A10300)

The Associate in General Education curriculum is designed for the academic enrichment of students who wish to broaden their education, with emphasis on personal interest, growth and development.

Course work includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers will be provided.

Through these skills, students will have a sound base for lifelong learning. Graduates are prepared for advancements within their field of interest and become better qualified for a wide range of employment opportunities.

COURSE REQUIREMENTS

	Credit
GENERAL EDUCATION CORE	
English Composition	6
Humanities/Fine Arts Select courses from the following discipline areas: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy and religion.	3
Natural Sciences/Mathematics ***Mathematics*** Select courses from the following discipline areas: college algebra, trigonometry, calculus, computer science, and statistics. or ***Natural Sciences*** Select courses from the following discipline areas: astronomy, biology, chemistry, earth sciences, physics, and/or general science.	3
Social/Behavioral Sciences Select courses from the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology.	3
MAJOR COURSES	
Other Major Courses Other required hours include courses that are identified in the Course Description section stating: "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."	49
OTHER REQUIRED COURSES	
ACA 111 College Student Success	1
Total Credit Hours	**65**

ASSOCIATE IN SCIENCE (A10400)

(College Transfer Curricula)

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 (A.S.). These programs are designed to offer students the freshman and sophomore years of a baccalaureate-track program. In order to receive an Associate in Arts (A.A.) or Associate in Science (A.S.) degree students must have a grade of "C" or better in all courses.

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.

TRANSFER CORE DIPLOMA

Students who successfully complete the 44-hour General Education Core with a grade of "C" or better in each course may be awarded the Associates in Science Transfer Core diploma. As defined by the Comprehensive Articulation Agreement between the UNC System and the North Carolina Community College System and approved by the North Carolina Legislature, the 44-hour General Education Core includes study in the areas of English composition, humanities and fine arts, mathematics, natural sciences, and social and behavioral sciences.

ACADEMIC PRE-MAJORS

Counselors and advisors can help students design a program of study. See http://www.northcarolina.edu/content.php/assessment/reports/student_info/caa.htm for additional information.

ASSOCIATE IN SCIENCE

GENERAL EDUCATION CORE

(44 Semester Hours Credit)

English Composition (6 SHC)

			Work Exp/		
		Class	Lab	Clinical	Credit
ENG 111	Expository Writing	3	0	0	3
ENG 112	Argument-Based Research	3	0	0	3
or					
ENG 113	Literature-Based Research	3	0	0	3
or					
ENG 114	Professional Research & Reporting	3	0	0	3

Humanities/Fine Arts (9 SHC)
Three (3) courses from **three (3)** discipline areas are required. **One (1) course must be a literature course.**

			Class	Lab	Work Exp/ Clinical	Credit
ART	111	Art Appreciation	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
DRA	111	Theatre Appreciation	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
FRE	111	Elementary French I	3	0	0	3
FRE	112	Elementary French II	3	0	0	3
GER	111	Elementary German I	3	0	0	3
GER	112	Elementary German 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
MUS	110	Music Appreciation	3	0	0	3
PHI	210	History of Philosophy	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
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

* 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

Social Sciences (9 SHC)
Three (3) courses from **three (3)** discipline areas are required. **One (1) course must be a history course.**

			Class	Lab	Work Exp/ Clinical	Credit
ANT	220	Cultural Anthropology	3	0	0	3
ECO	151	*Survey of Economics	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
GEO	111	World Regional Geography	3	0	0	3
GEO	112	Cultural Geography	3	0	0	3
HIS	111	World Civilizations I	3	0	0	3
HIS	112	World Civilizations 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
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
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

*ECO 151 is for those students who have not received credit for ECO 251 or ECO 252.

Natural Sciences/Mathematics (20 SHC)
Natural Science (8 SHC)
Select a two-course sequence in general biology, general chemistry, college physics, or general physics, including accompanying labs.

			Class	Lab	Work Exp/ Clinical	Credit
BIO	111	General Biology I	3	3	0	4
BIO	112	General Biology II	3	3	0	4
CHM	151	General Chemistry I	3	3	0	4
CHM	152	General Chemistry II	3	3	0	4
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

Mathematics (6 SHC)
One course in mathematics at the precalculus algebra (MAT 171) level or above is required; the other course(s) may be higher level mathematics or may be selected from among other quantitative subjects, such as computer science or statistics.

			Class	Lab	Work Exp/ Clinical	Credit
Mathematics						
MAT	171	Precalculus Algebra	3	0	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	271	Calculus I	3	2	0	4
MAT	272	Calculus II	3	2	0	4
MAT	273	Calculus III	3	2	0	4

			Class	Lab	Work Exp/ Clinical	Credit
Quantitative Subjects						
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming & Logic	2	3	0	3
MAT	155	Statistical Analysis	3	0	0	3

ASSOCIATE IN SCIENCE: Six (6) additional semester hour credits must be selected from courses designated as Natural Sciences/Mathematics general education transfer courses.

			Class	Lab	Work Exp/ Clinical	Credit
AST	111	Descriptive Astronomy	3	0	0	3
AST	111A	Descriptive Astronomy Lab	0	2	0	1
BIO	110	Principles of Biology	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
CHM	131	Introduction to Chemistry	3	0	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	0	1
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1

OTHER REQUIRED HOURS (20-21 SEMESTER HOURS CREDIT)

College Orientation (1 SHC)

			Class	Lab	Work Exp/ Clinical	Credit
ACA	111	College Student Success	1	0	0	1
ACA	118	College Study Skills	1	2	0	2
ACA	122	College Transfer Success	1	0	0	1

Electives and other required courses (20 SHC)
ASSOCIATE IN SCIENCE: Select a minimum of fourteen (14) semester hours in Computer Science, Mathematics, or Natural Sciences. The remaining courses may be selected from the preceding Social/Behavioral Sciences, Humanities/Fine Arts, and Natural Sciences/Mathematics sections or any of the courses listed below.

Natural Sciences/Mathematics/Computer Science Electives

			Class	Lab	Work Exp/ Clinical	Credit
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
CHM	251	Organic Chemistry I	3	3	0	4
CHM	252	Organic Chemistry II	3	3	0	4
CSC	151	JAVA Programming	2	3	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
MAT	172A	Precalculus Trig Lab	0	2	0	1
MAT	280	Linear Algebra	3	0	0	3
MAT	285	Differential Equations	3	0	0	3

General Electives
The following courses may transfer to some senior institutions. Students should check with their advisors and senior institutions before taking these courses.

			Class	Lab	Work Exp/ Clinical	Credit
ACC	120	Principles of Financial Accounting	3	2	0	4
ACC	121	Principles of Managerial Accounting	3	2	0	4
ART	131	Drawing I	0	6	0	3
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law I	3	0	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3
CJC	141	Corrections	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	216	Foundations of Education	3	2	0	4
EDU	221	Children with Exceptionalities	3	0	0	3
ENG	125	Creative Writing I	3	0	0	3
ENG	272	Southern Literature	3	0	0	3
ENG	273	African-American Literature	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	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	3
HIS	236	North Carolina History	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	142	Lifetime Sports	0	2	0	1
PED	210	Team Sports	0	3	0	1
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

Associate in Applied Science Degrees, Diplomas and Certificates

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

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
COM	231	Public Speaking	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
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.						
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	149	Intro to Accounting Spreadsheets	1	2	0	2
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
		Business Elective**	2/3	0-3	0	3/4
ACC	151	Accounting Spreadsheet Applications	1	2	0	2

	or					
COE	112	Co-op Work Experience I	0	0	20	2
C. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
		Total Credit Hours				**68/69**

* Approved Electives are listed on the page before the Course Descriptions.
** Business elective may be selected from the following courses:

ACC	111	Financial Accounting	3	0	0	3
ACC	115	College Accounting	3	2	0	4
BUS	116	Business Law II	3	0	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
BUS	260	Business Communication	3	0	0	3
DBA	110	Database Concepts	2	3	0	3
INT	110	International Business	3	0	0	3
MKT	221	Consumer Behavior	3	0	0	3
MKT	223	Customer Service	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 Accounting degree.

SEMESTER SCHEDULE ACCOUNTING (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
First Year — Fall Semester						
ACA	111	College Student Success	1	0	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	3
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
			15	4	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
COM	231	Public Speaking	3	0	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
			15	4	0	17

Second Year — Fall Semester

ACC	121	Principles of Managerial Accounting	3	2	0	4
ACC	130	Business Income Taxes	2	2	0	3
ACC	149	Intro to Accounting Spreadsheets	1	2	0	2
ACC	220	Intermediate Accounting I	3	2	0	4
BUS	115	Business Law I	3	0	0	3
			12	8	0	16

Second Year — Spring Semester

ACC	151	Accounting Spreadsheet 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
		Business Elective**	2/3	0-3	0	3/4
		Humanities/Fine Arts Elective*	3	0	0	3
			15/16	4-7	0	18/19

Total Credit Hours **68/69**

* Approved Electives are listed on the page before the Course Descriptions.
*** COE 112, Co-op Work Experience I, may be substituted for ACC 151, Accounting Spreadsheet Applications. See the course requirements for Accounting (A25100) for details.

SEMESTER SCHEDULE
ACCOUNTING (EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
First Year— Fall Semester						
ACA	111	College Student Success	1	0	0	1
ACC	120	Principles of Financial Accounting	3	2	0	4
CIS	110	Introduction to Computers	2	2	0	3
MAT	140	Survey of Mathematics	3	0	0	3
			9	4	0	11
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
ENG	111	Expository Writing	3	0	0	3
			9	2	0	10
Second and Third Years (Alternating Sequences) Even Years — Fall Semester						
ACC	129	Individual Income Taxes	2	2	0	3
ACC	225	Cost Accounting	3	0	0	3
BUS	115	Business Law I	3	0	0	3
BUS	137	Principles of Management	3	0	0	3
			11	2	0	12

Odd Years — Spring Semester

ACC	130	Business Income Taxes	2	2	0	3
ACC	150	Accounting Software Applications	1	2	0	2
		Business Elective**	2/3	0-3	0	3/4
		Humanities/Fine Arts Elective*	3	0	0	3
			8/9	4-7	0	11/12

Odd Years — Fall Semester

ACC	220	Intermediate Accounting I	3	2	0	4
ACC	149	Intro to Accounting Spreadsheets	1	2	0	2
COM	231	Public Speaking	3	0	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
			10	4	0	12

Even Years — Spring Semester

ACC	151	Accounting Spreadsheet Applications ***	1	2	0	2
ACC	221	Intermediate Accounting II	3	2	0	4
ECO	251	Principles of Microeconomics	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
			10	4	0	12

Total Credit Hours **68/69**

* Approved Electives are listed on the page before the Course Descriptions.
*** Co-op Work Experience I may be substituted for ACC 151, Accounting Spreadsheet Applications. See the course requirements for Accounting (A25100) for details.

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

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

		Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses					
1. Required Courses					
BIO 165	Anatomy and Physiology I	3	3	0	4
ENG 111	Expository Writing	3	0	0	3
ENG 112	Argument-Based Research	3	0	0	3
SOC 210	Introduction to Sociology	3	0	0	3
	Humanities/Fine Arts Elective *	3	0	0	3
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.					
NUR 111	Intro to Health Concepts	4	6	6	8
NUR 112	Health-Illness Concepts	3	0	6	5
NUR 113	Family Health Concepts	3	0	6	5
NUR 114	Holistic Health Concepts	3	0	6	5
NUR 211	Health Care Concepts	3	0	6	5
NUR 212	Health Systems Concepts	3	0	6	5
NUR 213	Complex Health Concepts	4	3	15	10
2. Other Major Courses					
BIO 166	Anatomy and Physiology II	3	3	0	4
BIO 275	Microbiology	3	3	0	4
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					**76**

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

SEMESTER SCHEDULE
ASSOCIATE DEGREE NURSING

		Class	Lab	Work Exp/ Clinical	Credit
First Year— Fall Semester					
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					
BIO 166	Anatomy and Physiology II	3	3	0	4
ENG 111	Expository Writing	3	0	0	3
NUR 112	Health-Illness Concepts	3	0	6	5
NUR 114	Holistic Health Concepts	3	0	6	5
PSY 241	Developmental Psychology	3	0	0	3
		15	3	12	20
First Year — Summer Semester					
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	Argument-Based Research	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					
NUR 213	Complex Health Concepts	4	3	15	10
SOC 210	Introduction to Sociology	3	0	0	3
		7	3	15	13
Total Credit Hours					**76**

BIOTECHNOLOGY (A20100)

The Biotechnology curriculum, which has emerged from molecular biology and chemical engineering, is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological and chemical technology.

Course work emphasizes biology, chemistry, mathematics, and technical communications. The curriculum objectives are designed to prepare graduates to serve in three distinct capacities: research assistant to a biologist or chemist, laboratory technician/instrumentation technician, and quality control/quality assurance technician.

Graduates may find employment in various areas of industry and government, including research and development, manufacturing, sales, and customer service.

COURSE REQUIREMENTS

Courses in ***bold-italics*** will be offered through Fayetteville Technical Community College.

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
	COM 231	Public Speaking	3	0	0	3
	ENG 111	Expository Writing	3	0	0	3
	ENG 112	Argument-Based Research	3	0	0	3
	MAT 155	Statistical Analysis	3	0	0	3
	PSY 150	General Psychology	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
B. Major Courses						
1. Core Courses						
	BIO 111	General Biology I	3	3	0	4
	BIO 112	General Biology II	3	3	0	4
	BTC 181	Basic Lab Techniques	3	3	0	4
	CHM 132	***Organic and Biochemistry***	***3***	***3***	***0***	***4***
	CHM 151	General Chemistry I	3	3	0	4
2. Other Major Courses						
	BIO 250	***Genetics***	***3***	***3***	***0***	***4***
	BIO 275	Microbiology	3	3	0	4
	BTC 281	***Bioprocess Techniques***	***2***	***6***	***0***	***4***
	BTC 285	***Cell Culture***	***2***	***3***	***0***	***3***
	BTC 286	***Immunological Techniques***	***3***	***3***	***0***	***4***
	BTC 288	***Biotech Lab Experience***	***0***	***6***	***0***	***2***
	CIS 110	Introduction to Computers	2	2	0	3
	MAT 171	***Precalculus Algebra***	***3***	***0***	***0***	***3***
	MAT 171A	***Precalculus Algebra Lab***	***0***	***2***	***0***	***1***
	PHY 151	College Physics I	3	2	0	4
		Science Elective	2/3	2/3	0	3/4
C. Other Required Courses						
	ACA 111	College Student Success	1	0	0	1

Science Elective (choose from the following)

CHM 152	General Chemistry II	3	3	0	4
CIS 115	Introduction to Programming & Logic	2	3	0	3
MAT 172	***Precalculus Trigonometry***	***3***	***0***	***0***	***3***
MAT 172A	***Precalculus Trigonometry Lab***	***0***	***2***	***0***	***1***

PHY 152	College Physics II	3	2	0	4
Total Credit Hours					**74/75**

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

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

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
2. Required Subject Area						
MAT	140	Survey of Mathematics	3	0	0	3
or						
MAT	171	Precalculus Algebra	3	0	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, a student must have a grade of "C" or better in all core courses for the program of study.						
ACC	120	Principles of Financial Accounting	3	2	0	4
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
ECO	252	Principles of Macroeconomics	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
2. Other Major Courses						
ACC	121	Principles of Managerial Accounting	3	2	0	4
BUS	230	Small Business Management	3	0	0	3
BUS	110	Introduction to Business	3	0	0	3
BUS	121	Business Mathematics	2	2	0	3
BUS	153	Human Resource Management	3	0	0	3
BUS	239	Business Applications Seminar	1	2	0	2
CTS	130	Spreadsheet	2	2	0	3
ECO	251	Principles of Microeconomics	3	0	0	3
INT	110	International Business	3	0	0	3
3. Required Subject Area						
Business Elective (Select 6 hours from the following courses)						
ACC	129	Individual Income Tax	2	2	0	3
ACC	130	Business Income Tax	2	2	0	3
ACC	225	Cost Accounting	3	0	0	3

BUS	116	Business Law II	3	0	0	3
BUS	125	Personal Finance	3	0	0	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
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
SPA	111	Elementary Spanish I	3	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
Only 3 SHC of SPA are allowed towards the Business Administration degree.						
C. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
		Total Credit Hours				**68**

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

SEMESTER SCHEDULE
BUSINESS ADMINISTRATION (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
First Year— Fall Semester						
ACA	111	College Student Success	1	0	0	1
BUS	110	Introduction to Business	3	0	0	3
BUS	115	Business Law I	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
			15	2	0	16
First Year — Spring Semester						
BUS	137	Principles of Management	3	0	0	3
CTS	130	Spreadsheet	2	2	0	3
ENG	112	Argument-Based Research	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
		Business Elective I	3	0	0	3
		Humanities/Fine Arts Elective *	3	0	0	3
			17	2	0	18
Second Year — Fall Semester						
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	153	Human Resource Management	3	0	0	3
BUS	121	Business Mathematics	2	2	0	3
ECO	252	Principles of Macroeconomics	3	0	0	3
		Business Elective II	3	0	0	3
			14	4	0	16

Second Year — Spring Semester

ACC	121	Principles of Managerial Accounting	3	2	0	4
BUS	230	Small Business Management	3	0	0	3
BUS	239	Business Applications Seminar	1	2	0	2
ECO	251	Principles of Microeconomics	3	0	0	3
INT	110	International Business	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			16	4	0	18

Total Credit Hours **68**

Business Elective (choose from the following)

BUS	116	Business Law II	3	0	0	3
BUS	125	Personal Finance	3	0	0	3
BUS	228	Business Statistics	3	0	0	3
BUS	260	Business Communication	3	0	0	3
BUS	261	Diversity in Management	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
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 Business Administration degree.

SEMESTER SCHEDULE
BUSINESS ADMINISTRATION (EVENING)

First Year — Fall Semester

			Class	Lab	Work Exp/ Clinical	Credit
ACA	111	College Student Success	1	0	0	1
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
			12	2	0	13

First Year — Spring Semester

BUS	137	Principles of Management	3	0	0	3
CTS	130	Spreadsheet	2	2	0	3
ENG	112	Argument-Based Research	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			11	2	0	12

Second and Third Years (Alternating Sequences) Even Years — Fall Semester

ACC	120	Principles of Financial Accounting	3	2	0	4
ECO	252	Principles of Macroeconomics	3	0	0	3
INT	110	International Business	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
			12	2	0	13

Odd Years — Spring Semester

ACC	121	Principles of Managerial Accounting	3	2	0	4
ECO	251	Principles of Microeconomics	3	0	0	3
		Business Elective I	3	0	0	3
		or (if final year)				
BUS	239	Business Applications Seminar	1	2	0	2
			9/7	2/4	0	10/9

Odd Years — Fall Semester

BUS	115	Business Law I	3	0	0	3
BUS	121	Business Mathematics	2	2	0	3
BUS	153	Human Resource Management	3	0	0	3
		Business Elective II	3	0	0	3
			11	2	0	12

Even Years — Spring Semester

BUS	230	Small Business Management	3	0	0	3
		Business Elective I	3	0	0	3
		or (if final year)				
BUS	239	Business Applications Seminar	1	2	0	2
		Social/Behavioral Sciences Elective*	3	0	0	3
			9/7	0/2	0	9/8

Total Credit Hours **68**

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

BUSINESS ADMINISTRATION (CERTIFICATE) (C25120)
COURSE REQUIREMENTS

			Class	Lab	Work Exp/ 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
CTS	130	Spreadsheet	2	2	0	3
MKT	120	Principles of Marketing	3	0	0	3
		Total Credit Hours	**16**	**4**	**0**	**18**

COMPUTER ENGINEERING TECHNOLOGY (A40160)

The Computer Engineering Technology curriculum provides the skills required to install, service, and maintain computers, peripherals, networks, and microprocessor and computer controlled equipment. It includes training in both hardware and software, emphasizing operating systems concepts to provide a unified view of computer systems.

Course work includes mathematics, physics, electronics, digital circuits, and programming, with emphasis on the operation, use, and interfacing of memory and devices to the CPU. Additional topics may include communications, networks, operating systems, programming languages, Internet configuration and design, and industrial applications.

Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring a knowledge of electronic and computer systems. Graduates may also qualify for certification in electronics, computers, or networks.

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
2. Required Subject Area						
		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, a student must have a grade of "C" or better in all core courses for the program of study.						
CET	111	Computer Upgrade/Repair I	2	3	0	3
CSC	139	Visual BASIC Programming	2	3	0	3
ELC	131	DC/AC Circuit Analysis	4	3	0	5
ELN	133	Digital Electronics	3	3	0	4
ELN	137	Electronic Devices and Circuits	4	3	0	5
C. Other Major Courses						
ATR	218	Computer Integrated Manufacturing	2	3	0	3
CET	222	Computer Architecture	2	0	0	2
CIS	115	Introduction to Programming & Logic	2	3	0	3
DFT	151	CAD I	2	3	0	3
EGR	285	Design Project	0	4	0	2
ELC	128	Introduction to PLC	2	3	0	3
ELN	232	Introduction to Microprocessors	3	3	0	4
ELN	237	Local Area Networks	2	3	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trig Lab	0	2	0	1
NOS	110	Operating System Concepts	2	3	0	3
NOS	120	Linux/Unix Single user	2	2	0	3

PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
D. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
		Total Credit Hours				**74**

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

SEMESTER SCHEDULE
COMPUTER ENGINEERING TECHNOLOGY (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
First Year— Fall Semester						
ACA	111	College Student Success	1	0	0	1
CIS	115	Introduction to Programming & Logic	2	3	0	3
ELC	131	DC/AC Circuit Analysis	4	3	0	5
ENG	111	Expository Writing	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
NOS	110	Operating System Concepts	2	3	0	3
			15	11	0	19
First Year – Spring Semester						
CET	111	Computer Upgrade/Repair I	2	3	0	3
ENG	112	Argument-Based Research	3	0	0	3
ELN	137	Electronic Devices and Circuits	4	3	0	5
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trig Lab	0	2	0	1
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
			15	10	0	19
First Year – Summer Semester						
ELC	128	Introduction to PLC	2	3	0	3
ELN	133	Digital Electronics	3	3	0	4
			5	6	0	7
Second Year – Fall Semester						
CET	222	Computer Architecture	2	0	0	2
DFT	151	CAD I	2	3	0	3
ELN	232	Introduction to Microprocessors	3	3	0	4
NOS	120	Linux/Unix Single user	2	2	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			12	8	0	15

Second Year – Spring Semester

ATR	218	Computer Integrated Manufacturing	2	3	0	3
CSC	139	Visual BASIC Programming	2	3	0	3
EGR	285	Design Project	0	4	0	2
ELN	237	Local Area Networks	2	3	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			9	13	0	14

Total Credit Hours **74**

COMPUTER INFORMATION TECHNOLOGY (A25260)

The Computer Information Technology curriculum is designed to prepare graduates for employment with organizations that use computers to process, manage, and communicate information. This is a flexible curriculum that can be customized to meet community information systems needs.

Course work will develop a student's ability to communicate complex technical issues related to computer hardware, software, and networks in a manner that computer users can understand. Classes cover computer operations and terminology, operating systems, database, networking, security, and technical support.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to manage information. Graduates should be prepared to sit for industry-recognized certification exams.

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	145	Analytical Mathematics	3	0	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, a student must have a grade of "C" or better in all core courses for the program of study.						
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming & Logic	2	3	0	3
CTS	120	Hardware/Software Support	2	3	0	3
CTS	285	Systems Analysis & Design	3	0	0	3
CTS	289	System Support Project	1	4	0	3
DBA	110	Database Concepts	2	3	0	3
NET	125	Networking Basics	1	4	0	3
NOS	110	Operating System Concepts	2	3	0	3
NOS	130	Windows Single User	2	2	0	3
NOS	230	Windows Administration I	2	2	0	3
SEC	110	Security Concepts	3	0	0	3
2. Other Major Courses						
CSC	139	Visual BASIC Programming	2	3	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	3
WEB	140	Web Development Tools	2	2	0	3
WEB	230	Implementing Web Serv	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3

C. Other Required Courses

ACA	111	College Student Success	1	0	0	1

Total Credit Hours **70**

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

SEMESTER SCHEDULE
COMPUTER INFORMATION TECHNOLOGY (DAY)

(+ denotes schedule and course requirements for a diploma program)

			Class	Lab	Work Exp/ Clinical	Credit
First Year — Fall Semester						
ACA	111	+College Student Success	1	0	0	1
CIS	110	+Introduction to Computers	2	2	0	3
CIS	115	+Introduction to Programming & Logic	2	3	0	3
ENG	111	+Expository Writing	3	0	0	3
NET	125	+Networking Basics	1	4	0	3
NOS	110	+Operating System Concepts	2	3	0	3
			11	12	0	16
First Year — Spring Semester						
CSC	139	+Visual BASIC Programming	2	3	0	3
DBA	110	+Database Concepts	2	3	0	3
ENG	112	+Argument-Based Research	3	0	0	3
MAT	145	Analytical Mathematics	3	0	0	3
NOS	130	+Windows Single User	2	2	0	3
WEB	110	+Internet/Web Fundamentals	2	2	0	3
			14	10	0	18
Second Year — Fall Semester						
BUS	110	Introduction to Business	3	0	0	3
CTS	285	Systems Analysis & Design	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	3	0	0	3
WEB	140	+Web Development Tools	2	2	0	3
			15	6	0	18
Second Year — Spring Semester						
CTS	120	+Hardware/Software Support	2	3	0	3
CTS	289	System Support Project	1	4	0	3
WEB	230	Implementing Web Serv	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			13	11	0	18
		Total Credit Hours				**70**

* Approved Electives are listed on the page before the Course Descriptions.
+ Denotes schedule and course requirements for a diploma program.

COMPUTER INFORMATION TECHNOLOGY (CERTIFICATE) (C25260)

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
First Year — Fall Semester						
CIS	110	Introduction to Computers	2	2	0	3
NET	125	Networking Basics	1	4	0	3
NOS	110	Operating System Concepts	2	3	0	3
			5	9	0	9
First Year — Spring Semester						
CTS	120	Hardware/Software Support	2	3	0	3
DBA	110	Database Concepts	2	3	0	3
NOS	130	Windows Single User	2	2	0	3
			6	8	0	9
		Total Credit Hours				**18**

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

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.

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
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.						
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
2. 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	211	Counseling	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

3. Elective Course (Select one of the following courses)**						
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
SPA	111	Elementary Spanish I	3	0	0	3
SPA	120	Spanish for the Workplace	3	0	0	3
C. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
		Total Credit Hours				**68**

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

SEMESTER SCHEDULE
CRIMINAL JUSTICE TECHNOLOGY (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
First Year— Fall Semester						
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
CJC	111	Introduction to Criminal Justice	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
			15	2	0	16
First Year – Spring Semester						
ENG	112	Argument-Based Research	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 Semester						
CJC	113	Juvenile Justice	3	0	0	3
CJC	211	Counseling	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 Semester

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	222	Criminalistics	3	0	0	3
CJC	233	Correctional Law	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			18	0	0	18

Total Credit Hours **68**

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

SEMESTER SCHEDULE
CRIMINAL JUSTICE TECHNOLOGY (EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
First Year — Fall Semester						
ACA	111	College Student Success	1	0	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	Expository Writing	3	0	0	3
			13	0	0	13
First Year — Spring Semester						
CIS	110	Introduction to Computers	2	2	0	3
CJC	112	Criminology	3	0	0	3
CJC	113	Juvenile Justice	3	0	0	3
CJC	211	Counseling	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
			14	2	0	15
Second and Third Years (Alternating Sequences) Even Years — Fall Semester						
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	140	Survey of Mathematics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
			12	0	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 **68**

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

CRIMINAL JUSTICE TECHNOLOGY (DIPLOMA) (D55180)
COURSE REQUIREMENTS

REQUIRED:

			Class	Lab	Work Exp/ 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	221	Investigative Principles	3	2	0	4
CJC	231	Constitutional Law	3	0	0	3
CJC	141	Corrections	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3

ANY FIVE (5) OF THE FOLLOWING CRIMINAL JUSTICE COURSES:

CJC	113	Juvenile Justice	3	0	0	3
CJC	131	Criminal Law	3	0	0	3
CJC	132	Court Procedure & Evidence	3	0	0	3
CJC	160	Terrorism: Underlying Issues	3	0	0	3
CJC	211	Counseling	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**

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

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
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.						
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	271	Educational Technology	2	2	0	3
EDU	280	Language & Literacy Experiences	3	0	0	3
EDU	284	Early Child Capstone Practicum	1	9	0	4
2. Other Major Courses						
CIS	110	Introduction to Computers	2	2	0	3
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
EDU	151A	Creative Activities Lab	0	2	0	1
EDU	251	Exploration Activities	3	0	0	3
EDU	259	Curriculum Planning	3	0	0	3
EDU	261	Early Childhood Administration I	3	0	0	3
EDU	282	Early Childhood Literature	3	0	0	3

3. Required Subject Area						
EDU Elective (Select one of the following)**						
EDU	163	Classroom Mgt & Instruct	3	0	0	3
EDU	234	Infants, Toddlers, & Twos	3	0	0	3
EDU	235	School-Age Dev & Programs	3	0	0	3
EDU	250	PRAXIS I Preparation	1	0	0	1
EDU	262	Early Childhood Administration II	3	0	0	3
C. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
		Total Credit Hours				**70/72**

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

SEMESTER SCHEDULE
EARLY CHILDHOOD EDUCATION (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
First Year – Fall Semester						
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
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
ENG	111	Expository Writing	3	0	0	3
			16	2	0	17
First Year – Spring Semester						
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	151A	Creative Activities Lab	0	2	0	1
EDU	153	Health, Safety, & Nutrition	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
PSY	150	General Psychology	3	0	0	3
			18	2	0	19
Second Year – Fall Semester						
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
EDU	221	Children with Exceptionalities	3	0	0	3
EDU	251	Exploration Activities	3	0	0	3
EDU	261	Early Childhood Administration I	3	0	0	3
EDU	280	Language & Literacy Experiences	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			16	0	10	17

Second Year – Spring Semester

EDU	259	Curriculum Planning	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
EDU	282	Early Childhood Literature	3	0	0	3
EDU	284	Early Child Capstone Practicum	1	9	0	4
MAT	140	Survey of Mathematics	3	0	0	3
		EDU Elective**	1/3	0	0	1/3
			13/15	11	0	17/19

Total Credit Hours **70/72**

SEMESTER SCHEDULE
EARLY CHILDHOOD EDUCATION (EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
First Year - Fall Semester						
ACA	111	College Student Success	1	0	0	1
EDU	119	Intro to Early Childhood Education	4	0	0	4
EDU	144	Child Development I	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
			11	0	0	11
First Year - Spring Semester						
CIS	110	Introduction to Computers	2	2	0	3
EDU	145	Child Development II	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
			11	2	0	12
Second and Third Years (Alternating Sequences) Even Years — Fall Semester						
EDU	131	Child, Family, & Community	3	0	0	3
EDU	221	Children with Exceptionalities	3	0	0	3
EDU	261	Early Childhood Administration I	3	0	0	3
PSY	150	General Psychology	3	0	0	3
			12	0	0	12
Odd Years - Spring Semester						
EDU	151	Creative Activities	3	0	0	3
EDU	151A	Creative Activities Lab	0	2	0	1
EDU	153	Health, Safety, & Nutrition	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
		EDU Elective**	1/3	0	0	1/3
			9/11	4	0	11/13

** EDU Elective: EDU 163, EDU 234, EDU 235, EDU 250 or EDU 262

Odd Years — Fall Semester

COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
EDU	280	Language & Literacy Experiences	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			10	0	10	11

Even Years — Spring Semester

EDU	251	Exploration Activities	3	0	0	3
EDU	259	Curriculum Planning	3	0	0	3
EDU	282	Early Childhood Literature	3	0	0	3
EDU	284	Early Child Capstone Practicum	1	9	0	4
			10	9	0	13

Total Credit Hours **70/72**

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

SEMESTER SCHEDULE
EARLY CHILDHOOD EDUCATION (CERTIFICATE) (C55220)

			Class	Lab	Work Exp/ 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						
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
EDU	145	Child Development II	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
			7	0	10	8

Total Credit Hours **18**

ELECTRICAL/ELECTRONICS TECHNOLOGY (DIPLOMA) (D35220)

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

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

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

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	102	Applied Communications II	3	0	0	3
PSY	101	Applied Psychology	3	0	0	3
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	112	DC/AC Electricity	3	6	0	5
ELC	113	Basic Wiring I	2	6	0	4
ELC	117	Motors and Controls	2	6	0	4
ELC	128	Introduction to PLC	2	3	0	3
ELN	229	Industrial Electronics	3	3	0	4
2. Other Major Courses						
ELC	114	Basic Wiring II	2	6	0	4
ELC	118	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	Transformer Applications	1	2	0	2
		Total Credit Hours				**38**

SEMESTER SCHEDULE ELECTRICAL/ELECTRONICS TECHNOLOGY (EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
First Year— Fall Semester						
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	10	0	9
First Year – Spring Semester						
ELC	113	Basic Wiring I	2	6	0	4
ENG	102	Applied Communications II	3	0	0	3
PSY	101	Applied Psychology	3	0	0	3
			8	6	0	10
First Year – Summer Semester						
ELC	125	Diagrams and Schematics	1	2	0	2
ELC	134	Transformer Applications	1	2	0	2
			2	4	0	4
Second Year— Fall Semester						
ELC	114	Basic Wiring II	2	6	0	4
ELN	229	Industrial Electronics	3	3	0	4
			5	9	0	8
Second Year – Spring Semester						
ELC	117	Motors and Controls	2	6	0	4
ELC	128	Introduction to PLC	2	3	0	3
			4	9	0	7
		Total Credit Hours				**38**

SEMESTER SCHEDULE
ELECTRICAL/ELECTRONICS TECHNOLOGY
(CERTIFICATE) (C35220)

			Class	Lab	Work Exp/ 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	Basic Wiring I	2	6	0	4
ELC	117	Motors and Controls	2	6	0	4
			4	12	0	8
		First Year – Summer Semester				
ELC	125	Diagrams and Schematics	1	2	0	2
			1	2	0	2
		Total Credit Hours				**17**

ELECTRONICS ENGINEERING TECHNOLOGY(A40200)

The Electronics Engineering Technology curriculum prepares individuals 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.

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts and microprocessors ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as, electronics engineering technician, field service technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
		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, a student must have a grade of "C" or better in all core courses for the program of study.						
ELC	131	DC/AC Circuit Analysis	4	3	0	5
ELN	133	Digital Electronics	3	3	0	4
ELN	137	Electronic Devices and Circuits	4	3	0	5
ELN	232	Introduction to Microprocessors	3	3	0	4
2. Other Major Courses						
ATR	218	Computer Integrated Manufacturing	2	3	0	3
CET	111	Computer Upgrade/Repair I	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	128	Introduction to PLC	2	3	0	3
ELN	132	Linear IC Applications	3	3	0	4
ELN	237	Local Area Networks	2	3	0	3
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trig Lab	0	2	0	1
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
C. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
		Total Credit Hours				**70**

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

SEMESTER SCHEDULE
ELECTRONICS ENGINEERING TECHNOLOGY (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
		First Year— Fall Semester				
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
ELC	131	DC/AC Circuit Analysis	4	3	0	5
ENG	111	Expository Writing	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
			13	7	0	16
		First Year – Spring Semester				
CET	111	Computer Upgrade/Repair I	2	3	0	3
ELN	137	Electronic Devices and Circuits	4	3	0	5
ENG	112	Argument-Based Research	3	0	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trig Lab	0	2	0	1
PHY	110	Conceptual Physics	3	0	0	3
PHY	110A	Conceptual Physics Lab	0	2	0	1
			15	10	0	19
		First Year – Summer Term				
ELC	128	Introduction to PLC	2	3	0	3
ELN	133	Digital Electronics	3	3	0	4
			5	6	0	7
		Second Year— Fall Semester				
DFT	151	CAD I	2	3	0	3
ELN	132	Linear IC Applications	3	3	0	4
ELN	232	Introduction to Microprocessors	3	3	0	4
		Humanities/Fine Arts Elective*	3	0	0	3
			11	9	0	14
		Second Year – Spring Semester				
ATR	218	Computer Integrated Manufacturing	2	3	0	3
EGR	285	Design Project	0	4	0	2
ELN	237	Local Area Networks	2	3	0	3
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			9	13	0	14
		Total Credit Hours				**70**

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

ENTREPRENEURSHIP (CERTIFICATE) (C25490)

The Entrepreneurship curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth as self-employed business owners.

Course work includes developing a student's ability to make informed decisions as future business owners. Courses include entrepreneurial concepts learned in innovation and creativity, business funding, and marketing. Additional course work includes computers and economics.

Through these skills, students will have a sound education base in entrepreneurship for lifelong learning. Graduates are prepared to be self-employed and open their own businesses.

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
None						
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.						
BUS	280	REAL Small Business	4	0	0	4
ETR	210	Intro to Entrepreneurship	3	0	0	3
ETR	215	Law for Entrepreneurs	3	0	0	3
ETR	230	Entrepreneur Marketing	3	0	0	3
C. Other Required Courses						
None						
Total Credit Hours						**13**

GENERAL OCCUPATIONAL TECHNOLOGY (A55280)

The General Occupational Technology curriculum provides individuals with an opportunity to upgrade skills and to earn an associate degree, diploma, and/or certificate by taking courses suited for individual occupational interests and/or needs.

The curriculum content will be customized for students according to occupational interests and needs. A program of study for each student will be selected from any non-developmental level courses offered by the College.

Graduates will become more effective workers, better qualified for advancements within their field of employment, and become qualified for a wide range of entry-level employment opportunities.

COURSE REQUIREMENTS

	Credit
A. General Education Courses	
1. Required Courses	
English/Communications	6
Humanities/Fine Arts	3
Natural Sciences/Mathematics	3
Social/Behavioral Sciences	3
B. Major Courses	
1. Core Courses	
Select core courses from approved curriculums at RCC.	18
2. Other Major Courses	
Select major courses from approved curriculums at RCC.	31-42
C. Other Required Courses	
ACA 111 College Student Success	1
Total Credit Hours	**65-76**

An "Individual Student Program of Study" form must be completed by the Registrar and on file in the Registrar's office when the student begins the program of study and must be updated every semester.

GLOBAL LOGISTICS TECHNOLOGY (A25170)

The Global Logistics Technology curriculum prepares individuals for a multitude of career opportunities in distribution, transportation, and manufacturing organizations. Classroom instruction, field of study experiences, and practical laboratory applications of logistics management and global technology capabilities are included in the program of study.

Course work includes computer applications, accounting, business law, economics, management, industrial sciences, and international studies. Students will solve different levels of logistics-related problems through case study evaluations and supply chain projects utilizing logistical hardware and intelligent software tools.

Graduates should qualify for positions in a wide range of government agencies, manufacturing, and service organizations. Employment opportunities include entry-level purchasing, material management, warehousing, inventory, transportation coordinators, and logistics analysts. Upon completion, graduates may be eligible for certification credentials through APICS and AST&L.

COURSE REQUIREMENTS

Courses in ***bold-italics*** will be offered through Forsyth Technical Community College.

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
COM	231	Public Speaking	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
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.						
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
DBA	110	Database Concepts	2	3	0	3
INT	110	International Business	3	0	0	3
LOG	***110***	***Introduction to Logistics***	***3***	***0***	***0***	***3***
LOG	***125***	***Transportation Logistics***	***3***	***0***	***0***	***3***
LOG	***215***	***Supply Chain Management***	***3***	***0***	***0***	***3***
LOG	***235***	***Import/Export Management***	***3***	***0***	***0***	***3***
LOG	***240***	***Purchasing Logistics***	***3***	***0***	***0***	***3***
LOG	***250***	***Advanced Global Logistics***	***3***	***2***	***0***	***4***
2. Other Major Courses						
ACC	120	Principles of Financial Accounting	3	2	0	4
CTS	130	Spreadsheet	2	2	0	3
		Business Elective I	3	0	0	3
		Business Elective II	3	0	0	3
		Business Elective III	3	0	0	3
Total Credit Hours						**64/65**

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

Business Elective (choose from the following)						
ACC	121	Principles of Managerial Accounting	3	2	0	4
BUS	110	Introduction to Business	3	0	0	3
BUS	116	Business Law II	3	0	0	3
BUS	230	Small Business Management	3	0	0	3
MKT	120	Principles of Marketing	3	0	0	3
MKT	224	International Marketing	3	0	0	3

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

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	140	Survey of Mathematics	3	0	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, a student must have a grade 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
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
HMT	220	Healthcare Financial Management	4	0	0	4
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
2. Other 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
CIS	110	Introduction to Computers	2	2	0	3
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
CTS	130	Spreadsheet	2	2	0	3
HMT	212	Mgt of Healthcare Organizations	3	0	0	3
OST	131	Keyboarding	1	2	0	2

C. Other Required Courses						
	ACA	111	College Student Success	1	0	0	1
			Total Credit Hours				**67**

SEMESTER SCHEDULE
HEALTHCARE MANAGEMENT TECHNOLOGY (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
First Year—Fall Semester						
ACA	111	College Student Success	1	0	0	1
ACC	120	Principles of Financial Accounting	3	2	0	4
BUS	137	Principles of Management	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
			16	2	0	17
First Year - Spring Semester						
ACC	121	Principles of Managerial Accounting	3	2	0	4
CIS	110	Introduction to Computers	2	2	0	3
ENG	112	Argument-Based Research	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
			15	6	0	18
Second Year - Fall Semester						
ACC	225	Cost Accounting	3	0	0	3
BUS	153	Human Resource Management	3	0	0	3
HMT	211	Long-Term Care Administration	3	0	0	3
HMT	212	Mgt of Health Care Organizations	3	0	0	3
MED	118	Medical Law and Ethics	2	0	0	2
		Humanities/Fine Arts Elective*	3	0	0	3
			17	0	0	17
Second Year - Spring Semester						
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
CTS	130	Spreadsheet	2	2	0	3
HMT	210	Medical Insurance	3	0	0	3
HMT	220	Healthcare Financial Management	4	0	0	4
		Social/Behavioral Sciences Elective*	3	0	0	3
			13	2	10	15
		Total Credit Hours				**67**

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

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

				Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses							
1. Required Courses							
	ENG	111	Expository Writing	3	0	0	3
	ENG	112	Argument-Based Research	3	0	0	3
	MAT	140	Survey of Mathematics	3	0	0	3
	SOC	210	Introduction to Sociology	3	0	0	3
			Humanities/Fine Arts Elective*	3	0	0	3
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.							
	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
	COE	111	Co-op Work Experience I	0	0	10	1
	COE	115	Work Experience Seminar I	1	0	0	1
	COE	121	Co-op Work Experience II	0	0	10	1
	COE	125	Work Experience Seminar II	1	0	0	1
	GRO	120	Gerontology	3	0	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	250	Financial Services	2	0	0	2
	HSE	251	Activities Therapy	2	2	0	3

	SOC 225	Social Diversity	3	0	0	3
	or					
	SWK 113	Working with Diversity	3	0	0	3
C. Other Required Courses						
	ACA 111	College Student Success	1	0	0	1
		Total Credit Hours				**67**

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

SEMESTER SCHEDULE
HUMAN SERVICES TECHNOLOGY (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
		First Year— Fall Semester				
ACA	111	College Student Success	1	0	0	1
ENG	111	Expository Writing	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
SOC	210	Introduction to Sociology	3	0	0	3
			14	4	0	16
		First Year – Spring Semester				
CIS	110	Introduction to Computers	2	2	0	3
ENG	112	Argument-Based Research	3	0	0	3
HSE	112	Group Process I	1	2	0	2
HSE	125	Counseling	2	2	0	3
MAT	140	Survey of Mathematics	3	0	0	3
			11	6	0	14
		First Year – Summer Term				
GRO	120	Gerontology	3	0	0	3
HSE	155	Community Resources Management	2	0	0	2
HSE	250	Financial Services	2	0	0	2
SOC	213	Sociology of the Family	3	0	0	3
			10	0	0	10
		Second Year— Fall Semester				
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
HSE	251	Activities Therapy	2	2	0	3
HSE	227	Children & Adolescents in Crisis	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3
SOC	225	Social Diversity	3	0	0	3
	or					
SWK	113	Working with Diversity	3	0	0	3
			12	2	10	14

		Second Year – Spring Semester				
COE	121	Co-op Work Experience II	0	0	10	1
COE	125	Work Experience Seminar II	1	0	0	1
HSE	210	Human Services Issues	2	0	0	2
HSE	220	Case Management	2	2	0	3
HSE	225	Crisis Intervention	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			11	2	10	13
		Total Credit Hours				**67**

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

SEMESTER SCHEDULE
HUMAN SERVICES TECHNOLOGY (EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
		First Year — Fall Semester				
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
HSE	110	Introduction to Human Services	2	2	0	3
			8	4	0	10
		First Year — Spring Semester				
ENG	112	Argument-Based Research	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
		Second and Third Years (Alternating Sequences)				
		Even Years — Summer Semester				
SOC	225	Social Diversity	3	0	0	3
	or					
SWK	113	Working with Diversity	3	0	0	3
			3	0	0	3
		Even Years — Fall Semester				
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
HSE	227	Children & Adolescents in Crisis	3	0	0	3
HSE	251	Activities Therapy	2	2	0	3
			6	2	10	8

Odd Years — Spring Semester

COE	121	Co-op Work Experience II	0	0	10	1
COE	125	Work Experience Seminar II	1	0	0	1
HSE	210	Human Services Issues	2	0	0	2
HSE	220	Case Management	2	2	0	3
MAT	140	Survey of Mathematics	3	0	0	3
SOC	213	Sociology of the Family	3	0	0	3
			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
		Humanities/Fine Arts Elective*	3	0	0	3
			9	4	0	11

Even Years — Spring Semester

GRO	120	Gerontology	3	0	0	3
HSE	155	Community Resources Management	2	0	0	2
HSE	250	Financial Services	2	0	0	2
PSY	241	Developmental Psychology	3	0	0	3
			10	0	0	10

Total Credit Hours **67**

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

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

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	140	Survey of Mathematics	3	0	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, a student must have a grade of "C" or better in all core courses for the program of study.						
BPR	111	Blueprint Reading	1	2	0	2
ELC	112	DC/AC Electricity	3	6	0	5
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
	or					
HYD	115	Industrial Hydraulics	2	2	0	3
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
WLD	112	Basic Welding Processes	1	3	0	2
2. Other Major Courses						
ATR	218	Computer Integrated Manufacturing	2	3	0	3
CIS	110	Introduction to Computers	2	2	0	3
ELC	117	Motors and Controls	2	6	0	4
ELC	120	Introduction to Wiring	2	2	0	3
ELC	125	Diagrams and Schematics	1	2	0	2
ELC	128	Introduction to PLC	2	3	0	3
HYD	180	Pneumatics in Automation	2	3	0	3
MAC	114	Introduction to Metrology	2	0	0	2
MEC	130	Mechanisms	2	2	0	3
MNT	230	Pumps & Piping Systems	1	3	0	2

MNT	240	Industrial Equipment Troubleshooting	1	3	0	2
PKG	130	Basic Electronics	1	3	0	2
WLD	117	Industrial SMAW	1	4	0	3
C. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
		Total Credit Hours				**70**

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

SEMESTER SCHEDULE
INDUSTRIAL SYSTEMS TECHNOLOGY (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
First Year— Fall Semester						
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
ELC	112	DC/AC Electricity	3	6	0	5
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			15	8	0	18
First Year— Spring Semester						
BPR	111	Blueprint Reading	1	2	0	2
ELC	125	Diagrams and Schematics	1	2	0	2
ENG	112	Argument-Based Research	3	0	0	3
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
	or					
HYD	115	Industrial Hydraulics	2	2	0	3
ISC	112	Industrial Safety	2	0	0	2
		Humanities/Fine Arts Elective*	3	0	0	3
			12	6/7	0	15
First Year — Summer Semester						
ELC	128	Introduction to PLC	2	3	0	3
PKG	130	Basic Electronics	1	3	0	2
			3	6	0	5
Second Year — Fall Semester						
ELC	120	Introduction to Wiring	2	2	0	3
HYD	180	Pneumatics in Automation	2	3	0	3
MEC	111	Machine Processes I	1	4	0	3
MEC	130	Mechanisms	2	2	0	3
MNT	230	Pumps & Piping Systems	1	3	0	2
WLD	112	Basic Welding Processes	1	3	0	2
			9	17	0	16

Second Year — Spring Semester						
ATR	218	Computer Integrated Manufacturing	2	3	0	3
ELC	117	Motors and Controls	2	6	0	4
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
WLD	117	Industrial SMAW	1	4	0	3
			9	19	0	16
		Total Credit Hours				**70**

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

SEMESTER SCHEDULE
INDUSTRIAL SYSTEMS TECHNOLOGY (DIPLOMA) (D50240) (EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
First Year — Fall Semester						
BPR	111	Blueprint Reading	1	2	0	2
MEC	111	Machine Processes I	1	4	0	3
WLD	112	Basic Welding Processes	1	3	0	2
			3	9	0	7
First Year — Spring Semester						
ENG	102	Applied Communications II	3	0	0	3
ISC	112	Industrial Safety	2	0	0	2
MNT	110	Intro to Maintenance Procedures	1	3	0	2
PSY	101	Applied Psychology	3	0	0	3
			9	3	0	10
First Year — Summer Semester						
ELC	125	Diagrams and Schematics	1	2	0	2
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
	or					
HYD	115	Industrial Hydraulics	2	2	0	3
			3	4/5	0	5
Second Year — Fall Semester						
ELC	112	DC/AC Electricity	3	6	0	5
MEC	130	Mechanisms	2	2	0	3
			5	8	0	8
Second Year — Spring Semester						
ELC	117	Motors and Controls	2	6	0	4
ELC	128	Introduction to PLC	2	3	0	3
			4	9	0	7
		Total Credit Hours				**37**

SEMESTER SCHEDULE
INDUSTRIAL SYSTEMS TECHNOLOGY (CERTIFICATE) (C50240)

			Class	Lab	Work Exp/ Clinical	Credit
		First Year – Fall Semester				
BPR	111	Blueprint Reading	1	2	0	2
MEC	111	Machine Processes I	1	4	0	3
			2	6	0	5
		First Year – Spring Semester				
ISC	112	Industrial Safety	2	0	0	2
MNT	110	Intro to Maintenance Procedures	1	3	0	2
			3	3	0	4
		First Year – Summer Semester				
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
	or					
HYD	115	Industrial Hydraulics	2	2	0	3
			2	2/3	0	3
		Second Year – Fall Semester				
WLD	112	Basic Welding Processes	1	3	0	2
			1	3	0	2
		Total Credit Hours				**14**

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 an 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

			Class	Lab	Work Exp/ Clinical	Credit
A. 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.						
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
2. Other Major Courses						
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
		Total Credit Hours				**18**

SEMESTER SCHEDULE
INFANT/TODDLER CARE (CERTIFICATE)

			Class	Lab	Work Exp/ 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
		1st Year – Spring Semester				
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
EDU	153	Health, Safety, & Nutrition	3	0	0	3
EDU	234	Infants, Toddlers, & Twos	3	0	0	3
			7	0	10	8
		Total Credit Hours				**18**

LATERAL ENTRY (CERTIFICATE) (C55430)

The Lateral Entry curriculum provides a course of study leading to the development of the general pedagogy competencies needed to become certified to teach by the North Carolina Department of Public Instruction.

Course work includes human growth and development, learning theory, instructional technology, school policies and procedures, home, school, and community collaborations, and classroom organization and management to enhance learning. Courses offered by partnering senior institutions include instructional methods, literacy, and diversity.

Graduates should meet the general pedagogy competencies within the first three years of teaching, including a minimum of six semester hours per school year. Additional requirements, such as pre-service training and passing the PRAXIS, are required for licensure.

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. 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.						
EDU	131	Child, Family, & Community	3	0	0	3
EDU	163	Classroom Mgt & Instruction	3	0	0	3
EDU	243	Learning Theory	3	0	0	3
EDU	244	Human Growth/Development	3	0	0	3
EDU	245	Policies and Procedures	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
		Total Credit Hours				**18**

SEMESTER SCHEDULE
LATERAL ENTRY (CERTIFICATE)

			Class	Lab	Work Exp/ Clinical	Credit
First Year – Fall Semester						
EDU	131	Child, Family, & Community	3	0	0	3
EDU	163	Classroom Mgt & Instruction	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
			8	2	0	9

First Year – Spring Semester						
EDU	243	Learning Theory	3	0	0	3
EDU	244	Human Growth/Development	3	0	0	3
EDU	245	Policies and Procedures	3	0	0	3
			9	0	0	9
		Total Credit Hours				**18**

A cohort model will be utilized. Courses will be offered in a hybrid format during monthly mini-semesters. The courses will be offered annually allowing students the flexibility of entering and completing courses throughout the year.

The courses that are required to be offered in conjunction with a four-year college will be offered during the summer terms. They will be offered on the Richmond Community College campus or made available through distance learning.

Each student enrolled in the Lateral Entry Certificate program will have a documented plan of study on file. Applicants for this certificate program must hold at least a bachelor's degree from an accredited institution.

MACHINING TECHNOLOGY (DIPLOMA) (D50300)

The Machining Technology curriculum is designed to develop skills in the theory and safe use of hand tools, power machinery, computerized equipment and sophisticated precision inspection instruments. Students will learn to interpret blueprints, set up manual and CNC machines, perform basic and advanced machining operations and make decisions to insure that work quality is maintained. Employment opportunities for machining technicians exist in manufacturing industries, public institutions, governmental agencies, and in a wide range of specialty machining job shops.

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
	ENG 102	Applied Communications II	3	0	0	3
	PSY 101	Applied Psychology	3	0	0	3
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.						
	BPR 111	Blueprint Reading	1	2	0	2
	BPR 121	Blueprint Reading: Mechanical	1	2	0	2
	MAC 111	Machining Technology I	2	12	0	6
	MAC 112	Machining Technology II	2	12	0	6
	MAC 113	Machining Technology III	2	12	0	6
	MAC 122	CNC Turning	1	3	0	2
	MAC 124	CNC Milling	1	3	0	2
2. Other Major Courses						
	MAC 151	Machining Calculations	1	2	0	2
3. Major Elective (Select one of the following.)						
	COE 112	Co-op Work Experience I	0	0	20	2
	MEC 141	Intro Manufacturing Processes	2	2	0	3
		Total Credit Hours				**36/37**

SEMESTER SCHEDULE
MACHINING TECHNOLOGY (DIPLOMA) (EVENING)

		Class	Lab	Work Exp/ Clinical	Credit
First Year – Fall Semester					
BPR 111	Blueprint Reading	1	2	0	2
MAC 111	Machining Technology I	2	12	0	6
		3	14	0	8
First Year – Spring Semester					
ENG 102	Applied Communications II	3	0	0	3
MAC 122	CNC Turning	1	3	0	2
MAC 124	CNC Milling	1	3	0	2
PSY 101	Applied Psychology	3	0	0	3
		8	6	0	10
First Year – Summer Semester					
MAC 151	Machining Calculations	1	2	0	2
MEC 141	Intro Manufacturing Processes	2	2	0	3
or					
COE 112	Co-op Work Experience I	0	0	20	2
		3	4	20	7
Second Year – Fall Semester					
BPR 121	Blueprint Reading: Mechanical	1	2	0	2
MAC 112	Machining Technology II	2	12	0	6
		3	14	0	8
Second Year – Spring Semester					
MAC 113	Machining Technology III	2	12	0	6
		2	12	0	6
	Total Credit Hours				**36/37**

SEMESTER SCHEDULE
MACHINING TECHNOLOGY
(CERTIFICATE) (C50300)

(EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
		First Year – Fall Semester				
BPR	111	Blueprint Reading	1	2	0	2
MAC	111	Machining Technology I	2	12	0	6
			3	14	0	8
		First Year – Spring Semester				
ENG	102	Applied Communications II	3	0	0	3
MAC	122	CNC Turning	1	3	0	2
MAC	124	CNC Milling	1	3	0	2
PSY	101	Applied Psychology	3	0	0	3
			8	6	0	10
		Total Credit Hours				**18**

MECHANICAL ENGINEERING TECHNOLOGY (A40320)

The Mechanical Engineering Technology curriculum prepares graduates for employment as technicians in the diversified mechanical and manufacturing engineering fields. Mechanical Engineering technicians assist in design, development, testing, process design and improvement, and troubleshooting and repair of engineered systems. Emphasis is placed on the integration of theory and hands-on application of engineering principles.

In addition to course work in engineering graphics, engineering fundamentals, materials and manufacturing processes, mathematics, and physics, students will study 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

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
		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, a student must have a grade of "C" or better in all core courses for the program of study.						
DFT	151	CAD I	2	3	0	3
DFT	152	CAD II	2	3	0	3
HYD	110	Hydraulics/Pneumatics I	2	3	0	3
ISC	132	Manufacturing Quality Control	2	3	0	3
MEC	111	Machine Processes I	1	4	0	3
MEC	180	Engineering Materials	2	3	0	3
2. Other Major Courses						
CHM	151	General Chemistry I	3	3	0	4
DFT	111	Technical Drafting I	1	3	0	2
DFT	115	Architectural Drafting	1	2	0	2
DFT	153	CAD III	2	3	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trig Lab	0	2	0	1
MAT	271	Calculus I	3	2	0	4
MEC	110	Introduction to CAD/CAM	1	2	0	2
MEC	250	Statics & Strength of Materials	4	3	0	5
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. Other Required Courses						
	ACA	111	College Student Success	1	0	0	1
			Total Credit Hours				**69**

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

SEMESTER SCHEDULE
MECHANICAL ENGINEERING TECHNOLOGY (DAY)

			Class	Work Exp/ Lab	Clinical	Credit
First Year— Fall Semester						
ACA	111	College Student Success	1	0	0	1
DFT	111	Technical Drafting I	1	3	0	2
DFT	151	CAD I	2	3	0	3
ENG	111	Expository Writing	3	0	0	3
MEC	111	Machine Processes I	1	4	0	3
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
			11	12	0	16
First Year— Spring Semester						
DFT	115	Architectural Drafting	1	2	0	2
DFT	152	CAD II	2	3	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trig Lab	0	2	0	1
MEC	180	Engineering Materials	2	3	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			14	10	0	18
First Year— Summer Semester						
DFT	153	CAD III	2	3	0	3
ISC	132	Manufacturing Quality Control	2	2	0	3
			4	5	0	6
Second Year— Fall Semester						
CHM	151	General Chemistry I	3	3	0	4
MAT	271	Calculus I	3	2	0	4
MEC	250	Statics & Strength of Materials	4	3	0	5
PLA	120	Injection Molding	2	3	0	3
			12	11	0	16

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**

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

SEMESTER SCHEDULE
MECHANICAL ENGINEERING TECHNOLOGY (DIPLOMA) (D40320) (EVENING)

			Class	Work Exp/ Lab	Clinical	Credit
First Year — Fall Semester						
ACA	111	College Student Success	1	0	0	1
DFT	111	Technical Drafting I	1	3	0	2
DFT	151	CAD I	2	3	0	3
			4	6	0	6
First Year — Spring Semester						
DFT	115	Architectural Drafting	1	2	0	2
DFT	152	CAD II	2	3	0	3
		Humanities/Fine Arts Elective	3	0	0	3
			6	5	0	8
First Year — Summer Semester						
DFT	153	CAD III	2	3	0	3
MEC	180	Engineering Materials	2	3	0	3
			4	6	0	6
Second Year — Fall Semester						
MAT	171	Precalculus Algebra	3	0	0	3
MAT	171A	Precalculus Algebra Lab	0	2	0	1
MEC	111	Machine Processes I	1	4	0	3
			4	6	0	7
Second Year — Spring Semester						
MAT	172	Precalculus Trigonometry	3	0	0	3
MAT	172A	Precalculus Trig Lab	0	2	0	1
CHM	151	General Chemistry	3	3	0	4
			6	5	0	8

		Second Year — Summer Term				
ENG	111	Expository Writing	3	0	0	3
ISC	132	Manufacturing Quality Control	2	3	0	3
			5	3	0	6
		Total Credit Hours				**41**

SEMESTER SCHEDULE
MECHANICAL ENGINEERING TECHNOLOGY / COMPUTER AIDED DRAFTING (CERTIFICATE) (C40320) (EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
		First Year — Fall Semester				
DFT	111	Technical Drafting I	1	3	0	2
DFT	151	CAD I	2	3	0	3
			3	6	0	5
		First Year – Spring Semester				
DFT	115	Architectural Drafting	1	2	0	2
DFT	152	CAD II	2	3	0	3
			3	5	0	5
		First Year – Summer Semester				
DFT	153	CAD III	2	3	0	3
			2	3	0	3
		Total Credit Hours				**13**

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, medical transcription, 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

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	155	Statistical Analysis	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
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.						
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 Externship	0	0	15	5
2. Other Major Courses						
ACC	115	College Accounting	3	2	0	4
CIS	110	Introduction to Computers	2	2	0	3
MED	112	Orientation to Clinical Setting I	0	0	3	1
MED	114	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
MED	276	Patient Education	1	2	0	2
OST	131	Keyboarding	1	2	0	2
		Total Credit Hours				**69**

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

SEMESTER SCHEDULE
MEDICAL ASSISTING (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
		First Year — Fall Semester				
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	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	6	0	16
		First Year — Spring Semester				
BIO	163	Basic Anatomy and Physiology	4	2	0	5
ENG	112	Argument-Based Research	3	0	0	3
MAT	155	Statistical Analysis	3	0	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
			15	7	3	19
		First Year — Summer Semester				
MED	140	Exam Room Procedures I	3	4	0	5
			3	4	0	5
		Second Year — Fall Semester				
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 Semester				
MED	260	MED Clinical Externship	0	0	15	5
MED	276	Patient Education	1	2	0	2
PSY	150	General Psychology	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			7	2	15	13
		Total Credit Hours				**69**

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

SEMESTER SCHEDULE
MEDICAL ASSISTING (CERTIFICATE) (C45400)

			Class	Lab	Work Exp/ 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	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
			5	5	3	8
		Total Credit Hours				**16**

NETWORKING TECHNOLOGY (A25340)

No Longer Offered

The Networking Technology curriculum prepares individuals for employment supporting network infrastructure environments. Students will learn how to use technologies to provide reliable transmission and delivery of data, voice, image, and video communications in business, industry, and education.

Course work includes design, installation, configuration, and management of network infrastructure technologies and network operating systems. Emphasis is placed on the implementation and management of network software and the implementation and management of hardware such as switches and routers.

Graduates may find employment in entry-level jobs as local area network managers, network operators, network analysts, and network technicians. Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	145	Analytical Mathematics	3	0	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, a student must have a grade of "C" or better in all core courses for the program of study.						
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming & Logic	2	3	0	3
CTS	120	Hardware/Software Support	2	3	0	3
DBA	110	Database Concepts	2	3	0	3
NET	125	Networking Basics	1	4	0	3
NET	126	Routing Basics	1	4	0	3
NET	225	Routing & Switching I	1	4	0	3
NET	226	Routing & Switching II	1	4	0	3
NET	289	Networking Project	1	4	0	3
NOS	110	Operating System Concepts	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
SEC	110	Security Concepts	3	0	0	3
2. Other Major Courses						
CSC	139	Visual BASIC Programming	2	3	0	3
NOS	231	Windows Administration II	2	2	0	3
C. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
		Total Credit Hours				**67**

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

SEMESTER SCHEDULE NETWORKING TECHNOLOGY (DAY)

No Longer Offered

(+ denotes schedule and course requirements for a diploma program)

			Class	Lab	Work Exp/ Clinical	Credit
First Year — Fall Semester						
ACA	111	+College Student Success	1	0	0	1
CIS	110	+Introduction to Computers	2	2	0	3
CIS	115	+Introduction to Programming & Logic	2	3	0	3
ENG	111	+Expository Writing	3	0	0	3
NET	125	+Networking Basics	1	4	0	3
NOS	110	+Operating System Concepts	2	3	0	3
			11	12	0	16
First Year — Spring Semester						
CTS	120	+Hardware/Software Support	2	3	0	3
DBA	110	Database Concepts	2	3	0	3
ENG	112	+Argument-Based Research	3	0	0	3
MAT	145	Analytical Mathematics	3	0	0	3
NET	126	+Routing Basics	1	4	0	3
NOS	130	+Windows Single User	2	2	0	3
			13	12	0	18
Second Year — Fall Semester						
BUS	110	Introduction to Business	3	0	0	3
NET	225	+Routing & Switching I	1	4	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	3	0	0	3
			11	8	0	15
Second Year — Spring Semester						
CSC	139	Visual BASIC Programming	2	3	0	3
NET	226	+Routing & Switching II	1	4	0	3
NET	289	Networking Project	1	4	0	3
NOS	231	+Windows Administration II	2	3	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			12	14	0	18
		Total Credit Hours				**67**

\+ Denotes schedule and course requirements for a diploma program.
* Approved Electives are listed on the page before the Course Descriptions.

CISCO NETWORKING TECHNOLOGY (CERTIFICATE) (C25346) COURSE REQUIREMENTS

No Longer Offered

			Class	Lab	Work Exp/ Clinical	Credit
NET	125	Networking Basics	1	4	0	3
NET	126	Routing Basics	1	4	0	3
NET	225	Routing & Switching I	1	4	0	3
NET	226	Routing & Switching II	1	4	0	3
		Total Credit Hours				**12**

NURSING ASSISTANT (CERTIFICATE) (C45480)

The Nursing Assistant curriculum 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 life span, personal care, vital signs, communications, nutrition, medical asepsis, therapeutic activities, accident and fire safety, household environment and equipment management; family resources and services; and employment skills.

Graduates of this curriculum may be eligible to be listed in the registry as a Nursing Assistant I and Nursing Assistant II. They may be employed in home health agencies, hospitals, clinics, nursing homes, extended care facilities, and doctors' offices.

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. 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.						
NAS	101	Nursing Assistant I	3	4	3	6
NAS	102	Nursing Assistant II	3	2	6	6
NAS	103	Home Health Care	2	0	0	2
2. Other Major Courses						
PSY	101	Applied Psychology	3	0	0	3
		Total Credit Hours				**17**

SEMESTER SCHEDULE NURSING ASSISTANT (CERTIFICATE)

			Class	Lab	Work Exp/ Clinical	Credit
		First Year—Fall/Spring Semesters				
NAS	101	Nursing Assistant I	3	4	3	6
NAS	103	Home Health Care	2	0	0	2
			5	4	3	8
		Spring Semester				
NAS	102	Nursing Assistant II	3	2	6	6
PSY	101	Applied Psychology	3	0	0	3
			6	2	6	9
		Total Credit Hours				**17**

Note: The Nursing Assistant curriculum is designed to allow a student to progress from an entry point through both levels of Nursing Assistant certification in two semesters.

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

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
COM	231	Public Speaking	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	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, a student must have a grade of "C" or better in all core courses for the program of study.						
CIS	110	Introduction to Computers	2	2	0	3
OST	134	Text Entry & Formatting	2	2	0	3
OST	164	Text Editing Applications	3	0	0	3
OST	184	Records Management	2	2	0	3
OST	289	Administrative Office Mgt	2	2	0	3
2. Other Major Courses						
ACC	115	College Accounting	3	2	0	4
CTS	130	Spreadsheet	2	2	0	3
DBA	110	Database Concepts	2	3	0	3
OST	122	Office Computations	1	2	0	2
OST	131	Keyboarding	1	2	0	2
OST	132	Keyboard Skill Building	1	2	0	2
OST	133	Advanced Keyboard Skill Building	1	2	0	2
OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
OST	223	Admin Office Transcript I	2	2	0	3
OST	233	Office Publications Design	2	2	0	3
OST	236	Adv Word/Information Processing	2	2	0	3
OST	286	Professional Development	3	0	0	3
or						
COE	112	Co-op Work Experience I	0	0	20	2

			Class	Lab	Work Exp/ Clinical	Credit
C. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
Total Credit Hours						**66/67**

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

SEMESTER SCHEDULE
OFFICE ADMINISTRATION (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
First Year—Fall Semester						
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
OST	122	Office Computations	1	2	0	2
OST	131	Keyboarding	1	2	0	2
OST	184	Records Management	2	2	0	3
			13	8	0	17
First Year – Spring Semester						
COM	231	Public Speaking	3	0	0	3
CTS	130	Spreadsheet	2	2	0	3
OST	132	Keyboard Skill Building	1	2	0	2
OST	134	Text Entry & Formatting	2	2	0	3
OST	136	Word Processing	2	2	0	3
OST	164	Text Editing Applications	3	0	0	3
			13	8	0	17
Second Year—Fall Semester						
ACC	115	College Accounting	3	2	0	4
OST	133	Advanced Keyboard Skill Building	1	2	0	2
OST	137	Office Software Applications	2	2	0	3
OST	223	Admin Office Transcript I	2	2	0	3
OST	236	Adv Word/Information Processing	2	2	0	3
			10	10	0	15
Second Year — Spring Semester						
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						
COE	112	Co-op Work Experience I	0	0	20	2
OST	289	Administrative Office Mgt	2	2	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			15	7	0/20	17/18
Total Credit Hours						**66/67**

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

SEMESTER SCHEDULE
OFFICE ADMINISTRATION (CERTIFICATE) (C25370)
(EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
		First Year – Fall Semester				
CIS	110	Introduction to Computers	2	2	0	3
OST	131	Keyboarding	1	2	0	2
			3	4	0	5
		First Year – Spring Semester				
CTS	130	Spreadsheet	2	2	0	3
OST	136	Word Processing	2	2	0	3
OST	137	Office Software Applications	2	2	0	3
			6	6	0	9
		Total Credit Hours				**14**

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

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
PSY	150	General Psychology	3	0	0	3
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.						
NUR	101	Practical Nursing I	7	6	6	11
NUR	102	Practical Nursing II	8	0	12	12
NUR	103	Practical Nursing III	6	0	12	10
2. Other Major Courses						
BIO	163	Basic Anatomy and Physiology	4	2	0	5
CIS	110	Introduction to Computers	2	2	0	3
		Total Credit Hours				**47**

SEMESTER SCHEDULE
PRACTICAL NURSING (DIPLOMA)

			Class	Lab	Work Exp/ Clinical	Credit
		Fall Semester				
BIO	163	Basic Anatomy and Physiology	4	2	0	5
NUR	101	Practical Nursing I	7	6	6	11
PSY	150	General Psychology	3	0	0	3
			14	8	6	19
		Spring Semester				
CIS	110	Introduction to Computers	2	2	0	3
ENG	111	Expository Writing	3	0	0	3
NUR	102	Practical Nursing II	8	0	12	12
			13	2	12	18
		Summer Semester				
NUR	103	Practical Nursing III	6	0	12	10
			6	0	12	10
		Total Credit Hours				**47**

SCHOOL-AGE EDUCATION (A55440)

This curriculum prepares individuals to work with children in elementary through middle grades in diverse learning environments. Students will combine learned theories with practice in actual settings with school-age children under the supervision of qualified teachers.

Course work includes child growth/development; computer technology in education; physical/nutritional needs of school-age children; care and guidance of school-age children; and communication skills with families 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 programs in school-aged environments. Employment opportunities include school-age teachers in child care programs, before/after-school programs, paraprofessional positions in public/ private schools, recreational centers, and other programs that work with school-age populations.

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	140	Survey of Mathematics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
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.						
EDU	118	Princ & Prac of Inst Asst	3	0	0	3
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	163	Classroom Mgt & Instruct	3	0	0	3
EDU	221	Children with Exceptionalities	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
EDU	285	Internship Experiences-School Age	1	9	0	4
EDU	289	Adv Issues/School Age	2	0	0	2
2. Other Major Hours						
CIS	110	Introduction to Computers	2	2	0	3
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
EDU	119	Intro to Early Childhood Education	4	0	0	4
EDU	146	Child Guidance	3	0	0	3
EDU	151	Creative Activities	3	0	0	3
EDU	151A	Creative Activities Lab	0	2	0	1
EDU	153	Health, Safety, & Nutrition	3	0	0	3
EDU	235	School-Age Development & Programs	3	0	0	3
EDU	275	Effective Teacher Training	2	0	0	2

EDU	280	Language & Literacy Experiences	3	0	0	3
EDU	281	Instruc Strat/Read & Writ	2	2	0	3
C. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
		Total Credit Hours				**73**

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

SEMESTER SCHEDULE
SCHOOL-AGE EDUCATION (DAY)

			Class	Lab	Work Exp/ Clinical	Credit
First Year – Fall Semester						
ACA	111	College Student Success	1	0	0	1
CIS	110	Introduction to Computers	2	2	0	3
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
ENG	111	Expository Writing	3	0	0	3
			16	2	0	17
First Year – Spring Semester						
EDU	118	Princ & Prac of Inst Asst	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
ENG	112	Argument-Based Research	3	0	0	3
PSY	150	General Psychology	3	0	0	3
			18	0	0	18
Second Year – Fall Semester						
COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
EDU	163	Classroom Mgt & Instruct	3	0	0	3
EDU	221	Children with Exceptionalities	3	0	0	3
EDU	235	School-Age Development & Program	3	0	0	3
EDU	280	Language & Literacy Experiences	3	0	0	3
EDU	281	Instruc Strat/Read & Writing	2	2	0	3
EDU	289	Adv Issues/School Age	2	0	0	2
			17	2	10	19

Second Year – Spring Semester

EDU	151	Creative Activities	3	0	0	3
EDU	151A	Creative Activities Lab	0	2	0	1
EDU	271	Educational Technology	2	2	0	3
EDU	275	Effective Teacher Training	2	0	0	2
EDU	285	Internship Experiences-School Age	1	9	0	4
MAT	140	Survey of Mathematics	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			14	13	0	19

Total Credit Hours **73**

SEMESTER SCHEDULE
SCHOOL-AGE EDUCATION (EVENING)

			Class	Lab	Work Exp/ Clinical	Credit
		First Year - Fall Semester				
ACA	111	College Student Success	1	0	0	1
EDU	119	Intro to Early Childhood Education	4	0	0	4
EDU	144	Child Development I	3	0	0	3
ENG	111	Expository Writing	3	0	0	3
			11	0	0	11
		First Year - Spring Semester				
CIS	110	Introduction to Computers	2	2	0	3
EDU	145	Child Development II	3	0	0	3
EDU	146	Child Guidance	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
			11	2	0	12
		Second and Third Years (Alternating Sequences)				
		Even Years - Fall Semester				
EDU	131	Child, Family, & Community	3	0	0	3
EDU	163	Classroom Mgt & Instruct	3	0	0	3
EDU	281	Instruc Strat/Read & Writ	2	2	0	3
PSY	150	General Psychology	3	0	0	3
			11	2	0	12
		Odd Years - Spring Semester				
EDU	118	Princ & Prac of Inst Asst	3	0	0	3
EDU	151	Creative Activities	3	0	0	3
EDU	151A	Creative Activities Lab	0	2	0	1
EDU	153	Health, Safety, & Nutrition	3	0	0	3
EDU	271	Educational Technology	2	2	0	3
			11	4	0	13

Odd Years — Fall Semester

COE	111	Co-op Work Experience I	0	0	10	1
COE	115	Work Experience Seminar I	1	0	0	1
EDU	221	Children with Exceptionalities	3	0	0	3
EDU	235	School-Age Development & Program	3	0	0	3
EDU	280	Language & Literacy Exp	3	0	0	3
EDU	289	Adv Issues/School Age	2	0	0	2
			12	0	10	13

Even Years — Spring Semester

EDU	275	Effective Teacher Training	2	0	0	2
EDU	285	Internship Experiences-School Age	1	9	0	4
MAT	140	Survey of Mathematics	3	0	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
			9	9	0	12

Total Credit Hours **73**

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

WEB TECHNOLOGIES (A25290)

The Web Technologies curriculum prepares graduates for careers in the information technology arena using computers and distributed computing to disseminate and collect information via the web.

Course work in this program covers the terminology and use of computers, network devices, networks, servers, databases, applications, programming languages, as well as web applications, site development and design. Studies will provide opportunity for students to learn related industry standards.

Graduates should qualify for career opportunities as designers, administrators, or developers in the areas of web applications, websites, web services, and related areas of distributed computing.

No Longer Offered

COURSE REQUIREMENTS

			Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses						
1. Required Courses						
ENG	111	Expository Writing	3	0	0	3
ENG	112	Argument-Based Research	3	0	0	3
MAT	145	Analytical Mathematics	3	0	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, a student must have a grade of "C" or better in all core courses for the program of study.						
BUS	110	Introduction to Business	3	0	0	3
CIS	110	Introduction to Computers	2	2	0	3
CIS	115	Introduction to Programming & Logic	2	3	0	3
DBA	110	Database Concepts	2	3	0	3
NET	125	Networking Basics	1	4	0	3
NOS	110	Operating System Concepts	2	3	0	3
SEC	110	Security Concepts	3	0	0	3
WEB	110	Internet/Web Fundamentals	2	2	0	3
WEB	115	Web Markup and Scripting	2	2	0	3
WEB	120	Introduction Internet Multimedia	2	2	0	3
WEB	140	Web Development Tools	2	2	0	3
WEB	210	Web Design	2	2	0	3
WEB	230	Implementing Web Serv	2	2	0	3
WEB	250	Database Driven Websites	2	2	0	3
2. Other Major Courses						
CSC	139	Visual BASIC Programming	2	3	0	3
NOS	120	Linux/UNIX Single User	2	2	0	3
WEB	285	Emerging Web Technologies	2	2	0	3
C. Other Required Courses						
ACA	111	College Student Success	1	0	0	1
		Total Credit Hours				**67**

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

SEMESTER SCHEDULE
WEB TECHNOLOGIES (DAY)

(+ denotes schedule and course requirements for a diploma program)

No Longer Offered

			Class	Lab	Work Exp/ Clinical	Credit
First Year— Fall Semester						
ACA	111	+College Student Success	1	0	0	1
CIS	110	+Introduction to Computers	2	2	0	3
CIS	115	+Introduction to Programming & Logic	2	3	0	3
ENG	111	+Expository Writing	3	0	0	3
NET	125	Networking Basics	1	4	0	3
NOS	110	+Operating System Concepts	2	3	0	3
			11	12	0	16
First Year — Spring Semester						
CSC	139	Visual BASIC Programming	2	3	0	3
DBA	110	+Database Concepts	2	3	0	3
ENG	112	+Argument-Based Research	3	0	0	3
MAT	145	+Analytical Mathematics	3	0	0	3
WEB	110	+Internet/Web Fundamentals	2	2	0	3
WEB	120	+Introduction Internet Multimedia	2	2	0	3
			14	10	0	18
Second Year — Fall Semester						
BUS	110	Introduction to Business	3	0	0	3
NOS	120	+Linux/UNIX Single User	2	2	0	3
SEC	110	Security Concepts	3	0	0	3
WEB	115	+Web Markup and Scripting	2	2	0	3
WEB	140	+Web Development Tools	2	2	0	3
			12	6	0	15
Second Year — Spring Semester						
WEB	210	+Web Design	2	2	0	3
WEB	230	Implementing Web Serv	2	2	0	3
WEB	250	+Database Driven Websites	2	2	0	3
WEB	285	+Emerging Web Technologies	2	2	0	3
		Humanities/Fine Arts Elective*	3	0	0	3
		Social/Behavioral Sciences Elective*	3	0	0	3
			14	8	0	18
		Total Credit Hours				**67**

* Approved Electives are listed on the page before the Course Descriptions.
+ Denotes schedule and course requirements for a diploma program.

WEB TECHNOLOGIES (CERTIFICATE) (C25290)
COURSE REQUIREMENTS

No Longer Offered

		Class	Lab	Work Exp/ Clinical	Credit
WEB 110	Internet/Web Fundamentals	2	2	0	3
WEB 120	Introduction Internet Multimedia	2	2	0	3
WEB 140	Web Development Tools	2	2	0	3
WEB 210	Web Design	2	2	0	3
		8	8	0	12
	Total Credit Hours				**12**

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 industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provides the student with industry-standard skills developed through classroom training and practical application.

Successful 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 self-employment.

COURSE REQUIREMENTS

		Class	Lab	Work Exp/ Clinical	Credit
A. General Education Courses					
1. Required Courses					
ENG 111	Expository Writing	3	0	0	3
MAT 140	Survey of Mathematics	3	0	0	3
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.					
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. Other Major Courses					
DFT 151	CAD I	2	3	0	3
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
	Total Credit Hours				**38**

SEMESTER SCHEDULE
WELDING TECHNOLOGY (EVENING)

	Class	Lab	Work Exp/ Clinical	Credit
First Year – Fall Semester				
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	14	0	10

		Class	Lab	Work Exp/ Clinical	Credit
First Year – Spring Semester					
WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD 131	GTAW (TIG) Plate	2	6	0	4
WLD 151	Fabrication I	2	6	0	4
		6	18	0	12
First Year – Summer Semester					
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	3
WLD 215	SMAW (Stick) Pipe	1	9	0	4
		2	15	0	7
Second Year – Fall Semester					
DFT 151	CAD I	2	3	0	3
ENG 111	Expository Writing	3	0	0	3
MAT 140	Survey of Mathematics	3	0	0	3
		7	3	0	9
	Total Credit Hours				38

SEMESTER SCHEDULE
WELDING TECHNOLOGY (CERTIFICATE C50420) (EVENING)

		Class	Lab	Work Exp/ Clinical	Credit
First Year – Fall Semester					
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	14	0	10
First Year – Spring Semester					
WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD 131	GTAW (TIG) Plate	2	6	0	4
		4	12	0	8
	Total Credit Hours				18

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, and REL.

*** 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.