PROGRAM LISTINGS 2012-2013

The following pages list alphabetically by discipline area, the curriculum programs to be offered by Catawba Valley Community College during the 2012-2013 academic year. Programs in addition to those shown are being planned and may be implemented prior to or during the year. Catawba Valley Community College reserves the right to delete or change programs and courses as may be required; however, this general catalog represents the most accurate information available concerning the CVCC curriculum at the time of its publication.

HOW TO USE THE LISTINGS

Each curriculum offered for credit is listed along with course numbers, titles, and semester hours of credit require for graduation. The credit hours shown in each curriculum are minimal, and are broken down as follows: class hours per week; lab hours per week; clinical/work experience hours per week (where applicable); and credit hours. Some courses entail both lab hours and clinical/work experience, and in these courses the number of hours for each is listed. Beginning on page 109 is a listing of descriptions for each credit course offered in each CVCC program. A complete course syllabus for each credit course is on file in the offices of the respective department chairpersons and is available for review by interested persons.

PROGRAM SEQUENCES

Program Sequences are suggestions only. The College retains the right to alter Program Sequences as it deems necessary.

COLLEGE TRANSFER

The College Transfer program is designed to parallel the freshman and sophomore years of study of a four-year college or university. In the first two years of college, students pursue a program of general education in the area of humanities, social and behavioral sciences, mathematics, and sciences.

Catawba Valley Community College provides advising to help students plan their program for transfer to the college of their choice. Students should structure their programs of study in conference with academic advisors, and admissions personnel at the college or university to which they wish to transfer. The structure of each student's program should be based on high school records, occupational goals, and choice of college to which the student plans to transfer.

COLLEGE TRANSFER

Associate in Arts Degree Curricula:

•Associate in Arts: General

Associate in Arts Diploma Curriculum:
• General Education Core

Associate in Science Degree Curricula:

•Associate in Science: General

Associate in Science Diploma Curriculum:
• General Education Core

Associate in Fine Arts Degree Curriculum:

• Pre-Major Associate in Fine Arts: Drama

• Pre-Major Associate in Fine Arts: Music & Music Education

Courses required to meet graduation requirements in this program are offered during day and evening hours.

Minimum time for completion:

Day -- four semesters full-time attendance; Evening -- will vary according to semester load of student.

The Associate in Arts, Associate in Fine Arts, or Associate in Science Degree is awarded graduates of college transfer programs.

The Diploma may be awarded upon completion of the 44 hour general education core.

Comprehensive Articulation Agreement (CAA)

The governing boards of the North Carolina Community College System and the University of North Carolina, in response to a legislative mandate, have approved a Comprehensive Articulation Agreement (CAA) which addressed in a system-wide manner the transfer of students from the community colleges to the universities. This CAA is for the A.A. and A.S. degrees. It specifies a general education transfer core of 44 semester hours and reflects the distribution of discipline areas commonly included in institution-wide, lower division, general education requirements for the baccalaureate degree. The transfer core specifies study areas and semester hours credit (SHC) distributions for each. The core specifically includes the following for the A.A. degree: English composition (6 SHC), humanities/fine arts (12 SHC), social/behavioral sciences (12 SHC), mathematics (6 SHC), and natural sciences (8 SHC). The core specifically includes the following for the A.S. degree: English composition (6 SHC), humanities/fine arts (9 SHC), social/behavioral sciences (9 SHC), natural science/mathematics (20 SHC--includes a minimum of 6 SHC in mathematics and 8 SHC in natural sciences). Community colleges and universities have identified community college courses appropriate to a general education transfer core. Those courses are listed in this section of the catalog.

The 44 hour General Education transfer core, if completed successfully with grade C or better in each course, will transfer as a block across the community college system and to UNC institutions. No D grades will transfer.

Community college graduates receiving the A.A. or A.S. degree who have successfully completed the general education transfer core will be considered to have fulfilled the institution-wide, lower division, general education requirements of the receiving UNC institution and will have achieved junior status. Completion of the A.A. or A.S. degree includes a Transfer Assured Admissions Policy (TAAP), which assures admission to at least one of the 16 University of North Carolina institutions with the following stipulations:

- Admission is not assured to a specific campus or specific program or major
- Students must have graduated from a NC community college with an A.A. or A.S. degree.
- Students must meet all requirements of the CAA.
- Students must have an overall GPA of at least 2.0 on a 4.0 scale, as
 calculated by the college from which they graduated, and a grade of
 "C" or better in all CAA courses.
- Students must be academically eligible for readmission to the last institution attended.
- Students must meet judicial requirements of the institution to which they applied.
- Students must meet all application requirements at the receiving institution including the submission of all required documentation by stated deadlines.

In addition, students must meet the specific senior institution's foreign language and/or health and physical education requirements. These requirements, if applicable, may be completed prior to or after transfer to the senior institution. Also, 3 SHC in speech/communications can be substituted for 3 SHC in the humanities/fine arts requirements; however, speech/communications cannot substitute for the literature requirement in the humanities/fine arts category.

Community college students who have completed the 44 SHC general education core with the proper distribution of hours, but have not completed the associate degree, will be considered to have fulfilled the institution-wide, lower division general education requirements of the receiving UNC institution. To be eligible, a student must have an overall GPA of 2.0 on a 4.0 scale at the time of transfer and a grade of "C" or better on all general education core courses.

Community college students who have not completed the general education core will have their transcripts evaluated on a course-by-course basis by the receiving institution.

Mission Statement for the General Education Program

The mission of the General Education Program is to develop solid reasoning skills and a background in the various disciplines upon which to base a program of lifelong learning. The skills to connect the world of the individual to the rest of the world will be important in preparing the student to become an effective citizen.

Goals and Competencies of General Education Courses

Communication

The student will gain proficiency in reading, writing, speaking and comprehending Standard English. The student will be able to communicate effectively in all three areas.

Mathematics

The student will gain proficiency in basic computational skills, fundamental algebraic concepts, and interpretational skills of numerical and graphical data as these skills apply to real world situations.

Arts and Humanities

The student will gain an appreciation of the aesthetic aspect of human existence and how human expression in this area gives insight into the foundations of the basic questions of value in human life.

Social and Behavioral Sciences

The student will gain an understanding of the dynamics of the physiological and psychological self, group and societal interaction, and have an introduction to the influences of past events on the present. Further, the student will gain the necessary application and communication skills to utilize this knowledge in future academic and vocational pursuits.

Natural Science

The student will be introduced to the methods, concepts, and principles of science; will be exposed to representative applications of science and how these affect our society; and will experience the gathering, organization and interpretation of data.

Foreign Languages

The student will gain an understanding of foreign culture, cultural diversity, and language skills necessary for reading and speaking the language.

ASSOCIATE IN ARTS DEGREE

Associate in Arts degree is recommended for students who plan to transfer to senior colleges and universities to pursue programs of study in Business Administration, Education, Liberal Arts, or any other area leading to the Bachelor of Arts Degree.

Associate in Arts Degree candidates must complete the following requirements:

Semester Courses **Hour Credit**

General Education Core (44 SHC)

44

English Composition (6 SHC)

ENG 111, and ENG 112 or 113

Humanities/Fine Arts (12 SHC)

Required-three (3) hours in literature to be selected from: ENG 231, 232, 241, 242, 251, 252, and a total of nine (9) hours from at least two different areas: Art, Drama, Language, Humanities, Music, Philosophy, Religion, or Speech.

Social/Behavioral Sciences (12 SHC)

Required-three (3) hours in history selected from: HIS 111, 112, 121, 122, 131, 132 and a total of nine (9) hours from courses listed below. Courses must be selected from at least two different areas:

Anthropology, Economics, Geography, Political Science, Psychology, or Sociology.

Natural Sciences (8 SHC)

Two semesters of Laboratory Science courses to be selected from:

Astronomy, Biology, Chemistry, Geology, or Physics.

Mathematics (6 SHC)

MAT 140/140A or Higher Level College Transfer Courses.

II. Other Required Hours (21 SHC)

21

ACA 111 or ACA 122

1 Hour

Computer Intensive Course

3-4 Hours

CIS 110 or CIS 115 CSC 120, CSC 134, CSC 139, or CSC 151 MAT 151 and MAT 151A PHY 151 or PHY 251

* Electives 16 - 17 Hours

(* Recommended to be taken in Liberal Arts area and/or cognate areas to the major.)

Total 65

Students who plan to transfer to a senior institution should determine the physical education and language requirements of the institution they plan to attend. Although Catawba Valley Community College does not have a physical education or language requirement, many senior institutions do have one or both requirements, and courses should be taken during the freshman and sophomore years.

ASSOCIATE IN ARTS **GRADUATION REQUIREMENTS**

I. General Education Core

(44 SHC)

A. English Composition (6 SHC).

ENG 111, and ENG 112, ENG 113, or ENG 114

B. Humanities/Fine Arts (12 SHC).

Choose four courses from three different prefix areas. One course must be ENG.

ARA 111	DRA 122	GER 111	REL 110
ARA 112	DRA 126	GER 112	REL 211
ART 111	ENG 231	HUM 110	REL 212
ART 114	ENG 232	HUM 120	REL 221
CHI 111	ENG 241	HUM 211	SPA 111
CHI 112	ENG 242	HUM 220	SPA 112
COM 110	ENG 251	MUS 110	SPA 211
COM 120	ENG 252	MUS 112	SPA 212
COM 231	FRE 111	MUS 212	
DRA 111	FRE 112	MUS 213	
DRA 112	FRE 211	PHI 210	
DRA 115	FRE 212	PHI 240	

C. Social/Behavioral Sciences (12 SHC).

Three (3) SHC in history is required for the AA degree, selected from HIS 111, 112, 121, 122, 131, 132 and a total of nine (9) SHC from courses listed below. Courses must be selected from at least two (2) different areas:

Anthropology, Economics, Geography, Political Science,

Psychology, or Sociology.

ANT 220	HIS 111	PSY 237
ANT 221	HIS 112	PSY 239
ANT 230	HIS 121	PSY 241
ECO 251	HIS 122	PSY 281
ECO 252	HIS 131	SOC 210
GEO 111	HIS 132	SOC 213
GEO 112	POL 110	SOC 220
GEO 113	POL 120	SOC 225
GEO 130	PSY 150	SOC 230

D. Natural Sciences (8 SHC).

AST 151	BIO 130	CHM 152	PHY 151
AST 151A	BIO 140	GEL 111	PHY 152
AST 152	BIO 140A	GEL 113	PHY 251
AST 152A	CHM 131	GEL 120	PHY 252
BIO 111	CHM 131A	GEL 230	
BIO 112	CHM 132	PHY 110	
BIO 120	CHM 151	PHY 110A	

E. Mathematics (6 SHC).

*Select courses from the following:

MAT 140	MAT 171	MAT 175A
MAT 140A	MAT 171 A	MAT 263
MAT 151	MAT 172	MAT 263A
MAT 151A	MAT 172 A	MAT 271
MAT 161	MAT 175	MAT 272
MAT 161A		MAT 273

^{*} When choosing from the pre-calculus series select only one from each series: MAT 171/MAT 171A and MAT 172/MAT 172A; OR MAT 175/MAT 175A.

II. Other Required Hours

(21 SHC)

Computer Intensive Course

(One of the following)

CIS 110 or CIS 115

CSC 120, CSC 134, CSC 139, or CSC 151 MAT 151 and MAT 151A

PHY 151 or PHY 251

ACA 111 or ACA 122

^{*}Electives: 17 hours

^{(*}Recommended to be taken in Liberal Arts area and/or cognate areas to the major.)

ASSOCIATE IN ARTS: GENERAL

A.A. Program (A10100)

			SHC
Englis ENG	n Comp 111	oosition: Expository Writing	3
ENG	112	Argument-Based Research	
OR ENG	113	Literature-Based Research	3
Humai	nities/Fi	ine Arts:	
-		ature Elective	
Electiv	/es		9
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		oral Sciences:	2
Electiv	•	ve	
Notura	1 Caian	ces/Mathematics:	
Natu	ral Scie	ences	
Ele	ectives		8
	nematic		
M.	AT 140 OR	Survey of Mathematics	3
Hi	gher Le	evel College Transfer Math Course Elective	3
(E	nrollme	ent in the accompanying lab course is strongly recommended.)	
ОТИ	D DE	QUIRED COURSES:	
ACA	111	College Student Success	1
	OR		
ACA	122	College Transfer Success	1
Comp	uter Inte	ensive Course	3-4
CIS	110	Introduction to Computers	3
CIS	OR 115	Intro to Prog & Logic	3
CSC	120	Computing Fundamentals I	
CSC	134	C++ Programming	
CSC	139 OR	Visual BASIC Prog.	3
CSC	151	JAVA Programming	3
MAT	140A	Survey of Mathematics Lab	1
MAT	151	Statistics 1	
	MAT 15		
PHY	151	College Physics I	4
PHY	OR 251	General Physics I	4
1111	231	General Filysics F	
Electiv	100		16
		nded to be taken in Liberal Arts area from CAA electives.)	10
Total	Credit	Hours Required	65
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*	
ENG	090	Composition Strategies	3
MAT	DMA	. 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060,	
DED		. 070, DMA 080 (Each One (1) credit hour)	1

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Electives For Associate In Arts Programs Of Study

ACC 120	CSC 130	
ACC 121	CSC 139	HIS 141
ARA 181	CSC 220	HIS 145
ARA 182	CSC 239	HIS 151
ART 130	CTS 115	HIS 161
ART 131	DAN 110	HIS 162
ART 132	DAN 124	HIS 211
ART 140	DAN 125	HIS 221
ART 171	DAN 130	HIS 226
ART 231	DAN 140	HIS 227
ART 232	DAN 141	HIS 228
ART 240	DAN 211	HIS 232
ART 241	DAN 212	HIS 236
ART 271	DAN 225	HIS 261
ART 274	DAN 264	JOU 110
ART 281	DFT 170	MAT 285
ART 282	DRA 115	MUS 111
ART 283	DRA 120	MUS 113
ART 284	DRA 130	MUS 210
BIO 143	DRA 132	MUS 211
BIO 145	DRA 135	MUS 214
BIO 146	DRA 140	MUS 215
BIO 155	DRA 142	PED - Any
BIO 163	DRA 145	PHS 130
BIO 168	DRA 150	PHY 153
BIO 169	DRA 170	PHY 253
BIO 175	DRA 171	POL 130
BIO 221	DRA 240	PSY 211
BIO 222	DRA 260	PSY 231
BIO 224	DRA 270	PSY 243
BIO 225	DRA 271	PSY 244
BIO 226	EDU 144	PSY 245
BIO227	EDU 145	PSY 246
BIO 230	EDU 216	PSY 247
BIO 231	EDU 221	PSY 263
BIO 232	EGR 150	PSY 275
BIO 250	EGR 210	SOC 215
BIO 275	EGR 220	SOC 234
BIO 280	ENG 125	SOC 242
BUS 110	ENG 126	SOC 244
BUS 115	ENG 235	SOC 250
BUS 137	ENG 273	SOC 254
CHI 181	ENG 275	SPA 141
CHI 182	FRE 181	SPA 161
CHM 130	FRE 182	SPA 181
CHM 130A	FRE 281	SPA 182
CHM 251	FRE 282	SPA 221
CHM 252	GEL 220	SPA 281
CHM 261	GEO 121	SPA 282
CHM 263	GER 181	
CHM 271	GER 182	
CHM 271A	HEA 110	
CJC 111	HEA 112	
CJC 121 CJC 141	HEA 120	
CJC 141		

ASSOCIATE IN SCIENCE DEGREE

The Associate in Science Degree is recommended for students who plan to transfer to senior colleges and universities to pursue programs of study in Agriculture, Dentistry, Engineering, Forestry, Furniture, Mathematics, Medicine, Science, Textiles, or other areas leading to a Bachelor of Science Degree.

Associate in Science Degree candidates must complete the following requirements:

Courses	Semester Hour Credit
I. General Education Core (44 SHC)	44
Communication ENG 111, and ENG 112, ENG 113 or ENG 114	(6 SHC)

Humanities/Fine Arts (9 SHC)

Required-three (3) hours in literature to be selected from: ENG 231, 232, 241, 242, 251, 252, and a total of six (6) hours from at least two different areas:

Art, Drama, Language, Humanities, Music, Philosophy, Religion, or Speech.

Social/Behavioral Science (9 SHC)

Required-three (3) hours in history selected from: HIS 111, 112, 121, 122, 131, 132 and a total of six (6) hours from courses listed below. Courses must be selected from at least two different areas: Anthropology, Economics, Geography, Political Science, Psychology or Sociology.

Natural Science/Mathematics (20 SHC)

Natural Sciences (8 SHC)

A two semester laboratory science course sequence of eight (8) hours in Biology, Chemistry, or Physics.

Mathematics (8 SHC)

MAT 171/171A and MAT 172/172A or MAT 175/175A or MAT 271; and Required Four (4) Hour MAT Elective.

Additional 4 SHC in Mathematics or Natural Sciences.

II. Other Required Hours (21 SHC) ACA 111 or ACA 122 1 Hour Natural Science Electives and/or

4 Hours

CSC 120, 130, 134, 220; DFT 170; OR EGR 220.

Computer Intensive Course

3 Hours

CIS 110 CSC 120; CSC 134; or CSC 151 MAT 151 and MAT 151A PHY 151 or PHY 251

Electives

13 Hours

Total 65

Students who plan to transfer to a senior institution should determine the physical education and language requirements of the institution they plan to attend. Although Catawba Valley Community College does not have a physical education or language requirement, many senior institutions do have one or both requirements, and courses should be taken during the freshman and sophomore years.

ASSOCIATE IN SCIENCE GRADUATION REQUIREMENTS

- I. General Education Core (44 SHC)
 - A. Communication (6 SHC)

ENG 111, and ENG 112, ENG 113 or ENG 114

B. Humanities/Fine Arts (9 SHC).

Choose three (3) courses from three different prefix areas. One course must be ENG.

ARA 111	DRA 115	FRE 211	MUS 213
ARA 112	DRA 122	FRE 212	PHI 210
ART 111	DRA 126	GER 111	PHI 240
ART 114	ENG 231	GER 112	REL 110
CHI 111	ENG 232	HUM 110	REL 211
CHI 112	ENG 241	HUM 120	REL 212
COM 110	ENG 242	HUM 211	REL 221
COM 120	ENG 251	HUM 220	SPA 111
COM 231	ENG 252	MUS 110	SPA 112
DRA 111	FRE 111	MUS 112	SPA 211
DRA 112	FRE 112	MUS 212	SPA 212

C. Social/Behavioral Sciences (9 SHC).

Choose three (3) courses, a total of nine (9) SHC, from three (3) different prefix areas. One (1) must be History for AS degree.

ANT 220	GEO 130	POL 120	SOC 220
ANT 221	HIS 111	PSY 150	SOC 225
ANT 230	HIS 112	PSY 237	SOC 230
ECO 251	HIS 121	PSY 239	
ECO 252	HIS 122	PSY 241	
GEO 111	HIS 131	PSY 281	
GEO 112	HIS 132	SOC 210	
GEO 113	POL 110	SOC 213	

A total of 20 SHC must be in Natural Sciences or Mathematics.

D. Natural Sciences (8 SHC). Two (2) semester sequence. BIO 111 & BIO 112, or CHM 151 & CHM 152, or PHY 151 & PHY 152, or PHY 251 & PHY 252.

*You may choose from the following to complete your Natural Sciences or Mathematics electives.

AST 151 & AST 151A, AST 152, AST 152A, BIO 111, BIO 112, BIO 120, BIO 130, BIO 140 & BIO 140A, CHM 131, & CHM 131A, CHM 132, CHM 151, CHM 152, GEL 111, GEL 113, GEL 120, GEL 230, PHY 110 & PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252.

E. Mathematics (8 SHC). MAT 171 and MAT 172 or MAT 175 or MAT 271; and required four (4) hour MAT elective. Select courses from the following:

MAT 151	*MAT 172	MAT 271
MAT 151A	MAT 172A	MAT 272
*MAT 171	*MAT 175	MAT 273
MAT 171A	MAT 175A	

^{*} Select only one: MAT 171 and MAT 172; or MAT 175.

II. Other Required Hours	(21 SHC)
ACA 111 or ACA 122	1 SHC
Natural Science Electives and/or CSC 120, 130, 134, 220; DFT 170; EGR 220; or	4 SHC GEL 113.
Computer Intensive Course CIS 110 CSC 120, CSC 134, or CSC 151 MAT 151 and MAT 151A PHY 151 or PHY 251	(3 SHC)
Electives:	13 SHC

38

Associate in Science: General A.S. Program (A10400)

ENG 111	aposition:
	Expository Writing
ENG 112 OR	Argument-Based Research
ENG 113	Literature-Based Research
OR	
ENG 114	Prof Reasearch & Reporting
Humanities/F	Fine Arts:
English Liter	rature Elective
Electives	
Social/Rehav	vioral Sciences:
History Elect	
Electives	
NI . 10 :	
	nces/Mathematics: Sciences
Electives	
	1) set of courses (8 SHC) from the following is required:
BIO	111 General Biology I
BIO CHM	112 General Biology II
CHM	
PHY	
PHY PHY	152 College Physics II
PHY	
Mathema	atics
MAT 17	1 Precalculus Algebra
MAT 172	e e
OR	
MAT 17:	5 Precalculus
MAT 27	1 Calculus I
	nent in the accompanying lab course is required.
See Othe	er Required Hours.)
Natural Scien	nces/Mathematics Electives
OTHER RE	EQUIRED COURSES:
	College Student Success
OR ACA 122	Callery Transfer Conservation
	College Transfer Success
MAT 1717 MAT 1727	
MAT 172A	A Precalculus Trig Lab
MAT 172	A Precalculus Trig Lab
MAT 1724 OR MAT 1754 Computer Int	A Precalculus Trig Lab A Precalculus Lab tensive Elective
MAT 172A OR MAT 175A Computer Int Three (3)	A Precalculus Trig Lab A Precalculus Lab tensive Elective) SHC from the following are required:
MAT 1724 OR MAT 1754 Computer Int Three (3) CSC	A Precalculus Trig Lab
MAT 172A OR MAT 175A Computer Int Three (3)	A Precalculus Trig Lab
MAT 1724 OR MAT 1754 Computer Int Three (3) CSC CSC	A Precalculus Trig Lab
MAT 172A OR MAT 175A Computer Int Three (3) CSC CSC CSC CSC MAT MAT	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC MAT MAT PHY PHY	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics,	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1) CSC CSC CSC CSC	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 CORPUTE INT Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab
MAT 1722 OR MAT 1752 OR MAT 1752 Computer Int Three (3) CSC CSC CSC CSC MAT MAT PHY PHY Mathematics, One (1 CSC CSC CSC CSC CSC CSC CSC CSC CSC CS	A Precalculus Trig Lab

Electives For Associate In Science Programs Of Study

DFT 170	HIS 261
DRA 115	JOU 110
DRA 120	MAT 285
DRA 130	MUS 111
	MUS 113
	MUS 210
	MUS 214
	MUS 215
	PED - Any
	PHS 130
	PHY 153
	PHY 253
	POL 130
	PSY 211
	PSY 231
	PSY 243
	PSY 244
	PSY 245
	PSY 246
	PSY 247
	PSY 263
	PSY 275
	SOC 215
	SOC 234
	SOC 242
	SOC 244
	SOC 250
	SOC 254
	SPA 141
	SPA 161
	SPA 181
	SPA 182
GEL 220	SPA 221
GEO 121	SPA 281
GER 181	SPA 282
GER 182	
HEA 110	
HEA 112	
HEA 120	
HIS 141	
HIS 145	
HIS 151	
HIS 161	
1110 200	
	DRA 115 DRA 120 DRA 130 DRA 132 DRA 135 DRA 140 DRA 142 DRA 145 DRA 150 DRA 170 DRA 170 DRA 171 DRA 240 DRA 270 DRA 271 EDU 144 EDU 145 EDU 216 EDU 221 EGR 150 EGR 210 EGR 220 ENG 125 ENG 126 ENG 235 ENG 273 ENG 273 ENG 275 FRE 181 FRE 182 FRE 281 FRE 282 GEL 220 GEO 121 GER 181 GER 182 HEA 110 HEA 112 HEA 120 HIS 141 HIS 145

ASSOCIATE IN FINE ARTS DEGREE (Drama)

The Associate in Fine Arts Degree is recommended for students who plan to transfer to senior institutions to pursue programs in the arts that lead to degrees of Bachelor of Fine Arts, Bachelor of Arts, Bachelor of Science in Art Education. Associate in Arts Degree candidates must complete the following requirements:

> SHC 28

Communication (6 SHC) ENG 111, ENG 113

I. General Education Core (28 SHC)

Humanities/Fine Arts (6 SHC)
Required-three (3) hours in literature to be selected from:
ENG 231 or ENG 232, or ENG 241, or ENG242 and three (3) hours from one of the following:

Art, Communication, Drama, Language, Humanities,

Philosophy, or Religion.

Social/Behavioral Science (9 SHC)

Required-three (3) hours in History, three (3) hours in Psychology, and three (3) hours in Sociology.

Natural Sciences (4 SHC)
Required-four (4) hours of Astronomy, Biology, Chemistry, Geology, or Physics.

Mathematics (3 SHC) MAT 140-Higher Level College Transfer Courses.

II. Other Required Hours (37 SHC) 37 Mathematics Lab 1 Hour Professional Program Courses 32 Hours 3 Hours Drama Electives ACA Eletive 1 Hour

Total

Students who plan to transfer to a senior institution should determine the physical education and language requirements of the institution they plan to attend. Although Catawba Valley Community College does not have a physical education or language requirement, many senior institutions do have one or both requirements, and courses should be taken during the freshman and sophomore years.

ASSOCIATE IN FINE ARTS **DEGREE GRADUATION REQUIREMENTS**

- I. General Education Core (28 SHC)
 - Communication (6 SHC)
 - ENG 111 and ENG 113
 - Humanities/Fine Arts (6 SHC). Required three (3) hours of liferature (ENG 231, 232, 241, or 242) and select one three (3) hour course from the following:

ART 111	DRA 112	HUM 211	REL 110
ART 114	DRA 115	MUS 110	REL 211
COM 110	DRA 122	MUS 213	REL 212
COM 231	DRA 126	PHI 210	REL 221
DRA 111	HUM 110	PHI 240	

Social/Behavioral Sciences (9 SHC).

Select three (3) hours in History, three (3) hours in Psychology, and three (3) hours in Sociology.

ANT 220	GEO 112	HIS 122	PSY 150
ANT 230	GEO 130	HIS 131	SOC 210
ECO 251	HIS 111	HIS 132	SOC 213
ECO 252	HIS 112	POL 110	SOC 220
GEO 111	HIS 121	POL 120	SOC 225

Natural Sciences (4 SHC).

AST 151 CHM 131 PHY 151 **GEL 111** AST 151A CHM 131 A PHY 110 BIO 111 CHM 151 PHY 110A

Mathematics (3 SHC).

MAT 140 MAT 140A MAT 161 *MAT 172 MAT 172A *MAT 175 MAT 161A *MAT 171 MAT 151 MAT 151A MAT 171A MAT 175A

* When choosing from the pre-calculus series select only one from each series: MAT 171/MAT 171A and MAT 172/MAT 172A;

OR MAT 175/MAT 175A.

II. Other Requirements (37 SHC)

Mathematics Lab 1 SHC Professional Program Courses: 32 SHC 3 SHC Drama Electives: ACA Eletive: 1 SHC

Pre-Major Associate in Fine Arts: Drama

A.F.A. Program (A1020C)

GENE English			DUCATION COURSES:	SHC
ENG	111	трозп	Expository Writing	3
ENG	113		Literature-Based Research.	3
Human		Fine A		2
ENG OR	231		American Literature I	
ENG OR	232		American Literature II	
ENG OR	241		British Literature I	
ENG	242		British Literature II	
Elective) com	urse should be selected from the following:	3
	ART	111	Art Appreciation	3
	ART	114	Art History Survey I	3
	COM			
	COM DRA	111	- F	
	DRA	112	Theatre Appreciation Literature of the Theatre	
		115		
	DRA	122		
I	DRA	126		
	HUM			
	HUM			
	MUS			
	MUS PHI	213 210	- F	
	PHI	240		
	REL	110		
	REL	211		
	REL	212		3
•	REL	221		3
Social/	Behav	vioral	l Sciences:	
Elective	es			9
			hould be selected from three (3) discipline areas from the follow	wing.
	ANT	220	must be a History course: Cultural Anthropology	
	ANT	230		
	ECO	251		
I	ECO	252	Prin of Macroeconomics	
	GEO	111		
	GEO	112		
	GEO	130		
	HIS HIS	111 112		
	HIS	121		
	HIS	122		
I	HIS	131	American History I	
I	HIS	132	J	
	POL	110		
	POL	120		
-	PSY	150 210		
	SOC	213		
	SOC	220		
		225		
		nces/	Mathematics:	
	ral S			
	ctives			4
			C should be selected from the following:	
	AST AST	151 151.		
	BIO	111		
	CHM			
(CHM	131.		
	CHM			
	GEL	111	marcadetory occorogy	
	PHY PHY	110 110	· · · · · · · · · · · · · · · · ·	
	PHY	151		
	iemat			
Ele	ctive			3
			urse should be selected from the following:	
-	MAT	140		
	MAT	151		
	MAT MAT	161 171		
	MAT	172	8	
	MAT	175	Precalculus Trigonometry	
(Enrol	lment	t in the accompanying lab course is strongly recommended or	may
b	e requ	uired.	.)	

DRAMA, con't.

			DRAMA (Suggested Progra				Clin/WkExp	Į.
DRAMA, Con't.	Eo11	1 of you	. .		Class	Lab	Jin	Credit
,	Fall - ACA		College Student Succe	cc	1	0	0	
Other Major Courses (All courses are required)	11011	OR	ACA 122 College Tran		1	U	U	1
DRA 120 Voice for Performance	ENG		Expository Writing	isici Success	3	0	0	3
DRA 130 Acting One	DRA		Acting One		0	6	0	3
DRA 140 Stagecraft I	DRA		Stagecraft I		0	6	0	3
DRA 145 Stage Make-up	DRA		Play Production		0	9	0	3
DRA 170 Play Production II		150	General Psychology		3	0	0	3
DRA 211 Theatre History	151	150	General 1 sychology			Ü	Ü	2
DRA 212 Theatre History II 3 DRA 270 Play Production III 3				Total	7	21	0	16
DRA 271 Play Production IV	1							
	Spring							
	ENG	113	Literature Based Resea	arch	3	0	0	3
Drama Electives	DRA	131	Acting Two		0	6	0	3
DAN 110 Dance Appreciation3	DRA		Stage Make-up		1	2	0	2
DAN 124 Jazz Dance I	DRA		Play Production II		0	9	0	3
DAN 125 Jazz Dance II	1	Natui	ral Science Elective					4
DAN 130 Ballet I	1			Total	4	17	0	15
DAN 141 Modern Dance II	1			Total	7	1 /	U	13
DAN 211 Dance History I	Summ	ner ₋ 1 s	et vear					
DAN 225 Choreography I	MAT		College Algebra		3	0	0	3
DAN 264 Dance Production 3 DRA 112 Literature of the Theatre 3	1		College Algebra Lab		0	2	0	1
DRA 112 Cherature of the Theatre 3 DRA 122 Oral Interpretation 3	1417 11	10171	Conege / figeora Lab		U	_	U	1
DRA 124 Readers Theatre	1			Total	3	2	0	4
DRA 128 Children's Theatre 3 DRA 135 Acting for the Camera I 3	1							
DRA 136 Acting for the Camera II	F 11	2 1						
DRA 141 Stagecraft II 3 DRA 142 Costuming 3	Fall - 2	-			2	0	_	2
DRA 142 Costuming	DRA		Theatre History I		3	0	0	3
DRA 240 Lighting for the Theatre	DRA		Directing		0	6		3
DRA 260 Directing	DRA ENG		Play Production III American Literature I		0	9	_	3
	ENG		ENG 232 American Lite	erature II	3	U	U	3
OTHER REQUIRED COURSES:	1		ENG 241 British Literat					
Mathematics Lab	1		ENG 242 British Literat					
OR	1		ry Elective		3	0	0	3
ACA 122 College Transfer Success	1		-,					
	1			Total	9	15	0	15
Total Credit Hours Required65								
70111 0.10110 1.10110 1.10111 1.10111 1.10111 1.10111 1.10111 1.10111 1.10111 1.10111 1.10111 1.10111 1.10111	Spring					_	_	
DEVELOPMENTAL COURSE REQUIREMENTS*	1		Voice for Performance			0		
ENG 090 Composition Strategies	DRA		Theatre History II		3	0		3
MAT DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060,	DRA		Play Production IV		0	9		3
DMA 070, DMA 080 (Each One (1) credit hour)	SOC	210	Intro to Sociology	71 .*	3	0	0	3
RED 090 Improved College Reading4	ĺ		Humanities/Fine Arts	Elective	3	0	0	3
*Developmental coursework (including all prerequisites) will be required of students	ĺ			Total	12	9	0	15
whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions	ĺ			Grand Total				
section for prerequisite course information.	1			Grand Total	33	64	U	U.S
- *	1							

ASSOCIATE IN FINE ARTS DEGREE (Music)

The Associate in Fine Arts Degree is recommended for students who plan to transfer to senior institutions (1) to pursue programs in the arts that lead to degrees of Bachelor of Fine Arts, Bachelor of Arts, Bachelor of Science in Art Education or (2) to pursue programs in music that lead to degrees of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Music Education, Bachelor of Science in Music Education, or Bachelor of Music Performance. Associate in Arts Degree candidates must complete the following requirements:

> SHC 28

I. General Education Core (28 SHC)

Communication (6 SHC)

ENG 111, ENG 113

Humanities/Fine Arts (6 SHC)

Required-three (3) hours in literature to be selected from: ENG 231 or 241, and three (3) hours from one of the following: Art, Communication, Drama, Language, Humanities, Philosophy, or Religion.

Social/Behavioral Science (9 SHC)
Required-three (3) hours in History, three (3) hours in Psychology, and three (3) hours in Sociology.

Natural Sciences (4 SHC)

Required-four (4) hours of Astronomy, Biology, Chemistry, Geology, or Physics.

Mathematics (3 SHC)
MAT 140-Higher Level College Transfer Courses.

II. Other Required Hours (37 SHC)
Mathematics Lab
Professional Program Courses 37 1 Hour 30 Hours Music Electives 6 Hours

Total

ACA 111, College Student Success, or ACA 122, College Transfer Success, is strongly recommended.

Students who plan to transfer to a senior institution should determine the physical education and language requirements of the institution they plan to attend. Although Catawba Valley Community College does not have a physical education or language requirement, many senior institutions do have one or both requirements, and courses should be taken during the freshman and sophomore years.

ASSOCIATE IN FINE ARTS **DEGREE GRADUATION REQUIREMENTS**

- I. General Education Core (28 SHC)
 - Communication (6 SHC) ENG 111 and ENG 113
 - Humanities/Fine Arts (6 SHC).

Required three (3) hours of literature (ENG 231, 232, 241 or 242) and select one three (3) hour course from the following:

ART 111	DRA 112	MUS 110	REL 211
ART 114	DRA 122	MUS 213	REL 212
COM 110	DRA 126	PHI 210	REL 221
COM 231	HUM 110	PHI 240	
DR A 111	HUM 211	RFL 110	

Social/Behavioral Sciences (9 SHC).

Select three (3) hours in History, three (3) hours in Psychology, and three (3) hours in Sociology

a unce (5)	mound in book	,1051.	
ANT 220	GEO 112	HIS 122	PSY 150
ANT 230	GEO 130	HIS 131	SOC 210
ECO 251	HIS 111	HIS 132	SOC 213
ECO 252	HIS 112	POL 110	SOC 220
GEO 111	HIS 121	PSY 120	SOC 225

Natural Sciences (4 SHC).

GEL 111 PHY 151 AST 151 CHM 131 AST 151A CHM 131A PHY 110 **BIO 111** CHM 151 PHY110 A

Mathematics (3 SHC)

MAT 161 MAT 140 *MAT 172 MAT 161A *MAT 171 MAT 172A *MAT 175 MAT 140A MAT 151 MAT 151A MAT 171A MAT 175A

* When choosing from the pre-calculus series select only one from each series: MAT 171/MAT 171A and MAT 172/MAT 172A; OR MAT 175/MAT 175A.

II. Other Requirements (37 SHC)

Mathematics Lab 1 SHC Professional Program Courses: 30 SHC Music Electives: 6 SHC

Pre-Major Associate in Fine Arts: Music and Music Education A.F.A. Program (A1020D)

GENE	RAI	L ED	DUCATION COURSES:SH	IC
English	Com	posit	tion:	
ENG	111	•	Expository Writing	3
ENG	113		Literature-Based Research	
Human	ities/I	Fine A	Arts:	
ENG	231		American Literature I	3
OR ENG	232		American Literature II	3
OR ENG	241		British Literature I	3
OR ENG	242		British Literature II	3
			Arts Electives:rse should be selected from the following:	3
A	ART	111	Art Appreciation3	
	ART	114	Art History Survey I	
	COM		Introduction to Communication	
	COM		Public Speaking	
		111 112	Theatre Appreciation	
		122	Oral Interpretation	
		126	Storytelling	
	HUM		Technology and Society	
F	HUM	211	Humanities I	
N	MUS	110	Music Appreciation	
	ИUS		Opera and Musical Theatre3	
	HI	210	History of Philosophy	
	HI	240	Introduction to Ethics	
-	REL REL	110 211	World Religions	
_	REL	211	Intro to Old Testament	
_	REL	221	Religion in America	
			Sciences:	
Elective		ioiui	ocionecs.	0
		es sh	ould be selected from three (3) discipline areas from the following.	
			must be a History course:	
	ANT	220		
	ANT	230		
		251	Prin of Microeconomics	
	ECO	252	Prin of Macroeconomics	
	GEO	111	World Regional Geography	
	GEO GEO	130	Cultural Geography	
	HS	111	World Civilization I	
	HS	112	World Civilization II	
	HIS	121	Western Civilization I	
F	HIS	122	Western Civilization II	
I	IIS	131	American History I	
	IIS	132	American History II	
	OL	110	Intro Political Science	
	OL	120	American Government	
	SOC	150 210	General Psychology	
	SOC	213	Sociology of the Family	
	SOC	220	Social Problems	
	SOC		Social Diversity	
Natural	Scien	nces/	Mathematics:	
Natu		cienc		4
			Should be selected from the following:	+
	AST	151	General Astronomy I	
	AST	151/		
E	SIO	111	General Biology I4	
-	CHM		Introduction to Chemistry3	
	CHM			
	CHM		General Chemistry I	
	GEL PHY	111 110	Introductory Geology	
	ΉΥ	110		
	PHY	151	College Physics I	
Math			١ ر	
	ctive			. 3
			irse should be selected from the following:	
	TAN	140		
	MAT	151	Statistics I	
	MAT MAT	161 171	College Algebra	
	ИAT	171	Precalculus Algebra	
N	MAT	175	Precalculus 4	
(1	Enroll	lment	t in the accompanying lab course is strongly recommended or may	
	e requ			

MUSIC con't

Music and Music Education, Con't. MAJOR COURSES:1 MUS Music Theory I4 MUS 122 Music Theory II4 MUS 131 MUS 132 MUS 231 MUS 232 Chorus IV.... MUS 151 Class Music I1 MUS 152 MUS 161 MUS 162 MUS 221 MUS 222 Music Theory IV......4 MUS 251 Class Music İII......1 MUS 252 Class Music IV1 MUS 261 MUS Applied Music IV Electives Four (4) SHC should be selected from the following: MUS 111 MUS 112 MUS 113 MUS 133 Band I1 MUS 134 Band II1 MUS 135 Jazz Ensemble I1 MUS 136 MUS 141 Ensemble I MUS 142 MUS 175 MUS MUS 181 MUS 182 Show Choir I.....4 Show Choir II .. MUS 210 MUS 211 MUS 212 MUS 213 MUS 214 Electronic Music I 2 Electronic Music II 2 Electronic Music II 2 MUS 215 MUS 217 Elementary Conducting _____2 MUS 233 Band III......1 MUS 234 MUS 235 MUS 236 MUS 241 MUS 242 MUS 270 MUS 281 Show Choir III 4 Show Choir IV.....4 MUS 282 Total Credit Hours Required65 ACA 111, College Student Success, or ACA 122, College Student Success, is strongly recommended.

DEVELOPMENTAL COURSE REQUIREMENTS*
ENG 090 Composition Strategies.....

Music and Music Education & A102 Suggested Program Sequence Day	,		Clin/WkExp	įţ
Fall - 1st year	Class	Lab		Crec
ACA 111 College Student Success (Recommended) OR ACA 122 College Transfer Success (Rec.)	1	0	0	1
ENG 111 Expository Writing MUS 121 Music Theory I	3	0	0	3 4
MUS 151P Class Piano I MUS 161 Applied Music I (V,P,W,B,G,)	0 1	2	0	1 2
MUS 131 Chorus I OR MUS 141 Ensemble I	0	2	0	1
Math Elective (MAT 161 College Algebra and MAT 161A College Algebra Lab - Recommend	3 ded)	0	0	3
Total	11		0	15
Spring - 1st year				
ENG 113 Literature Based Research MUS 122 Music Theory II	3	0	0	3 4
MUS 152P Class Piano II MUS 162 Applied Music II	0 1	2	0	1 2
MUS 132 Chorus II OR MUS 142 Ensemble II	0	2	0	1
Natural Science Elective Music Elective				4 2
Total	7	8	0	17
Fall - 2nd year				
MUS 221 Music Theory III MUS 251P Class Piano III	3	2	0	1
MUS 261 Applied Music III MUS 231 Chorus III	1	2	0	2
OR MUS 241 Ensemble III - PSY 150 General Psychology	3	0	0	3
SOC 210 Intro to Sociology Music Elective	3	0	0	3 2
Total	10	8	0	16
Spring - 2nd year	2	2	٥	4
MUS 252P Class Piano IV	3	2	0	1
MUS 262 Applied Music IV MUS 232 Chorus IV	1	2	0	2
OR MUS 242 Ensemble IV ENG 231 American Literature I	3	0	0	3
OR ENG 232 American Literature II OR ENG 241 British Literature I				
OR ENG 242 British Literature II Humanities/Fine Arts Elective				3
History Elective				3
Total	7	8	0	17
Grand Total	35	32	0	65

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

CAREER PROGRAMS

Career programs are offered in the Schools of Academics, Education & Fine Arts; Business, Industry & Technology; Health and Public Services. Specific program offerings and options are listed alphabetically. Descriptions for career courses are listed alphabetically by subject area in the course listings beginning on page 116.

SCHOOL OF ACADEMICS, EDUCATION & FINE ARTS

In addition to excellent two-year programs in such diverse areas as Early Childhood Education, Photography, and Graphics, the School offers general education core courses for students planning to transfer to a four-year institution. An agreement with the University of North Carolina system as well as many private colleges assures that our graduates' courses will be accepted for full credit. Studies in the humanities, sciences, arts, social sciences, English, and mathematics are a part of the general education core and are given high priority by our creative, innovative faculty members. The following programs are offered in the School of Academics, Education, and Fine Arts:

- · Associate in Arts
- Associate in Fine Arts: Pre-Major Music & Music Education
- · Associate in Fine Arts: Pre-Major Drama
- · Associate in Science
- Associate in General Education
- · Advertising and Graphic Design
- · Early Childhood Education
- Infant/Toddler Care Certificate
- · Graphic Arts & Imaging Technology
- Health & Fitness Science
- Photographic Technology

SCHOOL OF BUSINESS, INDUSTRY & TECHNOLOGY

Today's emerging digital economy demands problem solving skills using state-of-the-art technology and equipment. Programs within CVCC's School of Business, Industry & Technology use some of the most current technology to prepare you for a rapidly changing marketplace. From our Workforce Development Innovation Center which provides services to help businesses succeed in today's global economy, to our academic departments, we stand prepared to assist you in reaching your goals. The School of Business, Industry, and Technology is known for its talented faculty, staff, students and alumni. These stakeholders have worked to create an innovative climate that stresses teamwork, entrepreneurship, a global point of view, and an emphasis on new ideas and fresh perspectives. The following programs are offered in the School of Business, Industry, and Technology:

- Accounting
- · Air Conditioning, Heating and Refrigeration Technology
- · Architectural Technology
- · Automotive Systems Technology
- Business Administration
- · Computer Engineering Technology
- Computer Information Technology
- Computer-Integrated Machining Technology
- Computer Programming
- Cosmetology
- Electrical/Electronics Technology
- Electronics Engineering Technology
- Entrepreneurship
- Funeral Service Education (Collaborative)
- General Occupational Technology
- Horticulture Technology
- Industrial Systems Technology
- Information Systems Security
- Mechanical Engineering Technology
- Networking Technology
- · Office Administration
- Truck Driver Training (Collaborative)
- Turfgrass Management Technology
- Furniture Upholstery
- Web Technologies
- Welding Technology

SCHOOL OF HEALTH AND PUBLIC SERVICES

Individuals choosing health services should have an appreciation for human life, enjoy working with people of all ages, and be interested in the application of biological and scientific principles. Students will spend time in clinical facilities, hospitals, and other locations gaining skills through first-hand experience under the direction of competent professionals. Graduates of health and human resources associate degree programs may seek immediate employment. Students who are interested in pursuing a four year degree should contact their advisor or Student Services for specific information. Public Services provides comprehensive programs that offer associate degrees, certificates, and training in an array of disciplines and occupational interest to the Public Services community. In addition, technical pre-service and in-service advanced training is provided in a number of areas. Certificates are offered for Basic Law Enforcement Training (BLET) and in a range of criminal justice themes. Continuing/in-service public safety instruction is also provided in the areas of emergency medical training, fire and rescue. The following programs are offered in the School of Health and Public Services:

- · Basic Law Enforcement Training
- Cardiovascular Sonography (Collaborative)
- Criminal Justice Technology
- Criminal Justice Technology: Latent Evidence Concentration
- · Cyber Crime Technology
- · Dental Hygiene
- · Electroneurodiagnostic Technology
- Emergency Medical Science
- Fire Protection Technology
- · Health Information Technology
- · Healthcare Management Technology
- Medical Office Administration
- Medical Sonography (Collaborative)
- Medical Transcription
- Nuclear Medicine Technology (Collaborative)
- Associate Degree Nursing
- Pathology (Collaborative)
- Physical Therapist Assistant (Collaborative)
- Polysomnography
- Radiography
- Respiratory Therapy
- Speech-Language Pathology (Collaborative)
- Surgical Technology

COOPERATIVE EDUCATION

Cooperative Education (Co-op) is designed to give students enrolled in many programs within the College a chance to work on a job while completing their degree. This combination of classroom instruction with practical/related work experience provides numerous benefits to participating students.

Co-op students work one or more semesters in part-time or full time jobs related to their major. Academic credit is given for the learning gained during the work period. Students are assigned to a Co-op faculty coordinator and receive on-the-job supervision by the employers.

Admission to the Cooperative Education program is based on scholarship and interest, not financial need. Employers select the students and determine salaries to be offered; therefore, the college does not guarantee placement for all who are eligible.

Eligibility. Students who are enrolled in programs offering Co-op for academic credit and who have completed a minimum of 12 credit hours at the college (unless otherwise specified by the program) are eligible to participate if they meet the following conditions:

- 1. Have a minimum 2.00 GPA.
- 2. Obtain approval from Co-op program staff.
- 3. Have approval of Co-op faculty coordinator.
- 4. Willing to follow program guidelines.
- 5. Certain curriculum programs may specify additional conditions.

Application Procedure. Interested students should schedule an interview with the Coordinator of Cooperative Education. Students are selected on the basis of information obtained from their application, college transcripts, and an interview regarding career goals. After students have been accepted into the program, the Co-op program staff or faculty coordinator will be responsible for locating and/or approving an appropriate work assignment.

Academic Credit. Co-op students may earn one or more semester hours of Cooperative Education credit toward completion of diploma or degree requirements in approved curriculums.

Registration. Registration for Co-op courses is restricted. Students will meet with the Coordinator of Cooperative Education to register for these courses.

Students interested in Cooperative Education are invited to contact the Co-op Office. Information is also available through faculty advisors.

NOTE: Co-op options are listed under each participating curriculum course schedule.

PROGRAM SEQUENCES

Program Sequences are suggestions only. The College retains the right to alter Program Sequences as it deems necessary.

CAREER PROGRAM ELECTIVES

Humanities/fine arts and/or Social/behavioral science elective courses are specified in some programs. In order to assist students in planning their schedules, courses in these categories that are generally offered at CVCC are listed. Additional courses can be viewed at http://www.nccommunitycolleges.edu/Programs/docs/GenEd Matrix 09-28-2010.pdf.

If a course is specified as a required course in the program sequence, it may not be chosen as an elective. All prerequisites and corequisites must be met for these courses.

In programs where only one (1) Humanities/Fine Arts elective is required, introductory foreign language courses are not accepted as the elective.

		Humanitias/Fina Auts Flactiva	
ART	111	Humanities/Fine Arts Elective	3-0-0-3
ART	114	Art Appreciation Art History Survey I	3-0-0-3
DRA	111	Theatre Appreciation	3-0-0-3
DRA	112	Literature of the Theatre	3-0-0-3
DRA	120	Voice for Performance	3-0-0-3
DRA	122	Oral Interpretation	3-0-0-3
DRA	126	Storytelling	3-0-0-3
DRA ENG	130 125	Acting I	0-6-0-3 3-0-0-3
ENG	231	Creative Writing I American Literature I	3-0-0-3
ENG	232	American Literature II	3-0-0-3
ENG	241	British Literature I	3-0-0-3
ENG	242	British Literature II	3-0-0-3
ENG	251	Western World Literature I	3-0-0-3
ENG	252	Western World Literature II	3-0-0-3
ENG ENG	273 275	African-American Literature Science Fiction	3-0-0-3 3-0-0-3
HUM	110	Technology & Society	3-0-0-3
HUM	120	Cultural Studies	3-0-0-3
HUM	211	Humanities I	3-0-0-3
HUM	220	Human Values and Meaning	3-0-0-3
MUS	110	Music Appreciation	3-0-0-3
MUS	111	Fundamentals of Music	3-0-0-3
MUS MUS	112 213	Introduction to Jazz Opera and Musical Theatre	3-0-0-3 3-0-0-3
PHI	210	History of Philosophy	3-0-0-3
PHI	240	Introduction to Ethics	3-0-0-3
REL	110	World Religions	3-0-0-3
REL	211	Intro to Old Testament	3-0-0-3
REL	212	Intro to New Testament	3-0-0-3
REL SPA	221 141	Religion in America	3-0-0-3
SPA	141	Culture and Civilization	3-0-0-3
ANTE	220	Social/Behavioral Science Elective	2002
ANT	220	Cultural Anthropology	3-0-0-3
ANT	221	Cultural Anthropology Comparative Cultures	3-0-0-3
ANT ANT	221 230	Cultural Anthropology Comparative Cultures Physical Anthropology	3-0-0-3 3-0-0-3
ANT	221	Cultural Anthropology Comparative Cultures	3-0-0-3
ANT ANT ECO	221 230 251	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics	3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO	221 230 251 252 111 112	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ECO ECO GEO GEO GEO	221 230 251 252 111 112 113	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO	221 230 251 252 111 112 113 121	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO GEO	221 230 251 252 111 112 113 121 130	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography General Physical Geography	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO GEO HIS	221 230 251 252 111 112 113 121 130 111	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography General Physical Geography World Civilizations I	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO GEO	221 230 251 252 111 112 113 121 130	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography General Physical Geography	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography North Carolina Geography General Physical Geography World Civilizations I World Civilizations II Western Civilization I Western Civilization II	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization I American History I	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131 132	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization I Western Civilization II American History I American History II	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131 132 151	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Microeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History II Hispanic Civilization	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131 132 151 162	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131 132 151 162 211	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History Ancient History	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131 132 151 162	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS HIS HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 131 132 151 162 211 226 227	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Microeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History Ancient History Ancient History African-American History The Civil War Native American History	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 132 121 122 131 132 151 162 211 226 227 236	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Microeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History Ancient History African-American History The Civil War Native American History North Carolina History	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO GEO HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131 162 211 221 226 227 236 261	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Microeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History Ancient History Ancient History African-American History The Civil War Native American History East Asian History East Asian History	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131 132 211 221 226 227 236 261 110	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History Ancient History African-American History The Civil War Native American History East Asian History Intro Political Science	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO GEO HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131 162 211 221 226 227 236 261	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Microeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History Ancient History Ancient History African-American History The Civil War Native American History East Asian History East Asian History	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131 162 221 226 227 236 261 110 120	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Macroeconomics World Regional Geography Cultural Geography Economic Geography North Carolina Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History Ancient History African-American History The Civil War Native American History Intro Political Science American Government	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO GEO HIS	221 230 251 252 111 112 113 121 132 121 122 131 132 151 162 221 226 227 236 261 110 120 130 110 150	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Microeconomics World Regional Geography Cultural Geography Economic Geography Beonomic Geography Cultural Geography General Physical Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History Ancient History Ancient History Ancient History The Civil War Native American History East Asian History Intro Political Science American Government State & Local Government Life Span Development General Psychology	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO GEO HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS	221 230 251 252 111 112 113 121 130 111 112 121 122 131 132 151 162 221 226 227 236 261 110 120 130 110 150 244	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Microeconomics World Regional Geography Cultural Geography Economic Geography Beonomic Geography Cultural Geography General Physical Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History Ancient History Ancient History Ancient History The Civil War Native American History East Asian History Intro Political Science American Government State & Local Government Life Span Development General Psychology Child Development I	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3
ANT ANT ECO ECO GEO GEO GEO GEO GEO HIS	221 230 251 252 111 112 113 121 132 121 122 131 132 151 162 221 226 227 236 261 110 120 130 110 150	Cultural Anthropology Comparative Cultures Physical Anthropology Prin of Microeconomics Prin of Microeconomics World Regional Geography Cultural Geography Economic Geography Beonomic Geography Cultural Geography General Physical Geography World Civilizations I World Civilizations II Western Civilization II Western Civilization II American History I American History II Hispanic Civilization Women and History Ancient History Ancient History Ancient History The Civil War Native American History East Asian History Intro Political Science American Government State & Local Government Life Span Development General Psychology	3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3 3-0-0-3

Sociology of the Family

Race and Ethnic Relations

Sociology of Gender Sociology of Deviance

Soc of Death & Dying

Sociology of Religion

Rural & Urban Sociology

Social Problems

Social Diversity

3-0-0-3

3-0-0-3

3-0-0-3

3-0-0-3

3-0-0-3

SOC

SOC

SOC

SOC

SOC

SOC

SOC

SOC

213

220 225

230

 $\begin{array}{c} 242 \\ 244 \end{array}$

250

ACCOUNTING A.A.S. Program (A25100)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. Minimum time for completion: Day -- four semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum. The Accounting curriculum is designed to provide students with the knowledge and the 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.

GENERAL El English/Commun	DUCATION COURSES: SHC
ENG 111	Expository Writing
ENG 112	Argument-Based Research
OR ENG 113 OR	Literature-Based Research
ENG 114	Prof Research & Reporting
Humanities/Fine Elective	Arts:3
Natural Sciences MAT 115 OR	/Mathematics: Mathematical Models
MAT 161 MAT 161A	College Algebra3College Algebra Lab1
Social/Behaviora Elective	1 Sciences:
MAJOR COURS	BES:
ACC 120 ACC 121 ACC 129 ACC 140 ACC 220 ACC 225 ACC 240 BUS 110 BUS 115 BUS 116 CIS 110 COE 110 CTS 130 ECO 251	Prin of Financial Acct 4 Prin of Managerial Acct 4 Individual Income Taxes 3 Payroll Accounting 2 Acct Software Appl 2 Intermediate Accounting I 4 Cost Accounting 3 Gov & Not-for-Profit Acct 3 Introduction to Business 3 Business Law I 3 Business Law II 3 Introduction to Computers 3 World of Work 1 Spreadsheet 3 Prin of Microeconomics 3
	g Electives
ACC 130 ACC 221 ACC 269 BUS 125 BUS 135 BUS 245 COE XX	Intermediate Acct II

DEVE	LOPM	ENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
ENG	090	Composition Strategies	3
MAT	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 60,	
	DMA	70, DMA 80	. 8
RED	090	Improved College Reading	. 4

Fall - 1st ye	Accounting • A25100 Suggested Program Sequence	Day Class	Lab	Clin/WkExp	Credit
-	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
ENG 111		3	0	0	3
MAT 115	Mathematical Models	2	2	0	3
	T 161 College Algebra	3	0	0	3
	AT 161 A College Algebra Lab	0	2	0	1
	Behavorial Science Elective	3	0	0	3
Social	Total	14/15	4	0	16/17
Spring - 1st		1 1/13		O	10/1/
	Principles of Managerial Accounting	3	2	0	4
BUS 115	Business Law I	3	0	0	3
200 110	Introduction to Computers	2	2	0	3
	Argument Based Research (Preferred)	3	0	0	3
	G 113 Literature Based Research	3	0	0	3
	G 113 Electature Based Research G 114 Prof. Research and Development	3	0	0	3
	nting Elective	3	0	0	3
Accou	Total	14	4	0	16
Fall - 2nd y		14	4	U	10
	Individual Income Taxes	2	2	0	3
	Intermediate Accounting I	2 3	2	0	4
	Cost Accounting	3	0	-	3
		2	2	-	
	Spreadsheet nities/Fine Arts Elective	3	0	0	3
Huma			-	0	
Caraina a 2a	Total	13	6	0	16
Spring - 2n	2	1	2	0	2
	Payroll Accounting	1	2	0	2
	Accounting Software Applications	1	2	0	2
	Government and Not-for-Profit Acct	3	0	0	3
	Business Law II	3	0	0	
	World of Work	1	0	0	-
	Principles of Microeconomics	3	0	0	3
Accou	nting Elective	3	2	0	4
	Total	15	6	0	18
	Total Grand Total	56/57	-	•	
	Grand Total	30/3/	20	U	66/67

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Description section for prerequisite course information.

ACCOUNTING - Diploma Program (D25100)

ACCOUNTING - Diploma Program	1 (D2	510	00)	
GENERAL EDUCATION COURSES:				SHC
ENG 111 Expository Writing Social/Behavioral Sciences Elective				
MAJOR COURSES:				
ACC 120 Prin of Financial Acct				
ACC 121 Prin of Managerial Acct				
ACC 129 Individual Income Taxes				
ACC 140 Payroll Accounting				
BUS 110 Introduction to Business				
BUS 115 Business Law I				3
CIS 110 Introduction to Computers				
COE 110 World of Work				
ECO 251 Prin of Microeconomics				
Total Credit Hours Required				37
DEVELOPMENTAL COURSE REQUIREMENTS*	••••••	••••••	•••••	
CTS 080 Computing Fundamentals				3
RED 090 Improved College Reading				4
ENG 090 Composition Strategies				3
*Developmental coursework (including all prerequisites) wi whose placement test scores indicate a need for greater proficie	II be re	quire	ed of	freading
English, mathematics, and computers. Please refer to the Cou				
prerequisite course information.		•		
Accounting - Diploma Program (D25100) Su	aansta	46		onao
Accounting - Diploma Program (D25100) Su	ggeste	u S	equ	ence
Fall - 1st year				
ACC 120 Principles of Financial Accounting	3	2	0	4
BUS 110 Introduction to Business	3	0	0	3
CIS 110 Introduction to Computers ENG 111 Expository Writing	2 3	2	0	3
g	-	~	-	
Total	11	4	0	13
Spring - 1st year ACC 121 Principles of Managerial Accounting	3	2	0	4
ACC 140 Payroll Accounting	1	2	0	2
ACC 150 Accounting Software Applications	i	2	0	$\frac{2}{2}$
BUS 115 Business Law I	3	0	0	3
Total	8	6	0	11
Fall - 2nd year				
ACC 129 Individual Income Taxes	2	2	0	3
CTS 130 Spreadsheet	2	2	0	3
ECO 251 Principles of Microeconomics	3	0	0	3
Total	7	4	0	9
Spring - 2nd year	1	0	0	1
COE 110 World of Work Social/Behavorial Science Elective	1 3	0	0	1 3
	_	-		
Total	4	0	0	4
Grand Total	30	14	0	37
ACCOUNTING				
General - Certificate Program (C25	10001)		
MAJOR COURSES:				SHC
ACC 120 Prin of Financial Acct				
ACC 121 Prin of Managerial Acct				4
ACC 129 Individual Income Taxes				
ACC 140 Payroll Accounting				
Total Credit Hours Required	•••••	•••••	•••••	13
DEVELOPMENTAL COURSE REQUIREMENTS*				2
CTS 080 Computing Fundamentals				
ENG 090 Composition Strategies				3
*Developmental coursework (including all prerequisites) with	ll be re	quire	ed of	students
whose placement test scores indicate a need for greater proficie				
English, mathematics, and computers. Please refer to the Couprerequisite course information.	rse Des	cripti	on s	ection for
1 1				
General - Certificate Program • (C.	251000	01)		

General - Certificate Program • (C2510001) Suggested Prog. Seq. Day

Fall - 1st Yo ACC 120 ACC 121	ear Principles of Financial Accounting Principles of Managerial Accounting	3	2 2	0	444
G : 1	Total	6	4	0	8
ACC 129 ACC 140	t Year Individual Income Taxes Payroll Accounting	2	2 2	0	3 2
	Total	3	4	0	5
	Grand Total	9	8	0	13

ACCOUNTING

Computerized - Certificate Program (C2510003)

MAJC	OR CO	URSES:S	HC
ACC	120	Prin of Financial Acct	4
ACC	150	Acct Software Appl	2
CIS	110	Introduction to Computers	3
CTS	130	Spreadsheet	
Total	Credit	Hours Required	
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
RED	090	Improved College Reading	4
ENG	090	Composition Strategies	3
*David	lanman	tal aguraguarle (including all prorequisites) will be required of a	

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Description section for prerequisite course information.

Computerized - Cert. Prog. • (C2510003) Suggested Program Sequence Day

98				
Fall - 1st Year				
ACC 120 Principles of Financial Accounting		2		
CIS 110 Introduction to Computers	2	2	0	3
Total	5	4	0	7
Spring - 1st Year				
ACC 150 Accounting Software Applications	1	2	0	2
CTS 130 Spreadsheet	2	2	0	3
Total	3	4	0	5
Grand Total	8	8	0	12

ACCOUNTING

Taxation - Certificate Program (C2510004)

MAJC	OR CO	URSES:	SHC
ACC	120	Prin of Financial Acct	4
ACC	129	Individual Income Taxes	3
ACC	130	Business Income Taxes	3
ACC	140	Payroll Accounting	2
Total	Credit	Hours Required	12
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
RED	090	Improved College Reading	4
ENG	090	Composition Strategies	3
*Deve	lopmen	ital coursework (including all prerequisites) will be required of	of students
	1		

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Description section for prerequisite course information.

Taxation - Certificate Program • (C2510004) Suggested Program Sequence Day

Fall - 1st Y	ear				
ACC 120	Principles of Financial Accounting	3	2	0	4
	Individual Income Taxes	2	2	0	3
	Total	5	4	0	7
Spring - 1s	t Year				
	Business Income Taxes	2	2	0	3
ACC 140	Payroll Accounting	1	2	0	2
	Total	3	4	0	5
	Grand Total	8	8	0	12

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ADVERTISING AND GRAPHIC DESIGN A.A.S. Program (A30100)

Courses required to meet graduation requirements in this curriculum are offered during day hours only. Minimum time for completion: five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum.

The Advertising and Graphic Design curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession, which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials. Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media. Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with in-house graphics operations.

ENG	111	Expository Writing	3
ENG	114	Prof Research & Reporting	
Lumar		ine Arts:	
Electiv		ilic Atts.	3
	-		
		ces/Mathematics:	2
MAT MAT		Survey of Mathematics	
		Survey of Mathematics Lab	1
		oral Sciences:	2
Electiv	-		3
		URSES:	2
BUS	110	Introduction to Business	
GRA GRA	151 152	Computer Graphics I	
GRA	152	Computer Graphics III	
GRA	255	Image Manipulation I	າ
GRD	110	Typography I	
GRD	121	Drawing Fundamentals I	
BRD	131	Illustration I.	
GRD	141	Graphic Design I	
GRD	142	Graphic Design II	
3RD	180	Interactive Design	3
GRD	241	Graphic Design III	
GRD	249	Advanced Design Practice	
GRD	265	Digital Print Production	
GRD MKT	280 120	Principles of Marketing	4
		tive OR Co-op	
rogra		ts are required to take 3 SHC from the following:	,
	ART	131 Drawing I	
	ART	264 Digital Photography I	
	CIS	110 Introduction to Computers	
	COE	XXX Co-op Work Experience1-3	
	GRA	121 Graphic Arts I	
	GRA	245 Printing Sales/Service	
	GRA	256 Image Manipulation II	
	MKT	220 Advertising and Sales Promotion	
	MKT	221 Consumer Behavior	
	PHO PRN	110 Fund of Photography	
	SGD	155 Screen Printing I 2 111 Introduction to SGD 3	
	SGD	111 Introduction to SGD	
	SGD	114 3D Modeling	
	WEB	110 Internet/Web Fundamentals 3	
	WEB	111 Intro to Web Graphics	
	WEB	120 Intro Internet Multimedia	
тнг	RRE	DUIRED COURSES:	
ACA	111	College Student Success	1
	111	Conege Student Success	

Co-op Option: Qualified students may elect to take up to 3 credit nours of
cooperative education in place of 3 hours Program electives.
Total Credit Hours Required

1000	Creare from a required	
DEVE	LOPMENTAL COURSE REQUIREMENTS*	
CTS	080 Computing Fundamentals	3
ENG	090 Composition Strategies	3
MAT	DMA 010, DMA 020, DMA 030, DMA 040, DMA 050	
RED	090 Improved College Reading	4
	1 2 8	

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Advertising and Graphi Suggested Program	_)10()	VkExp	
Fall - 1st Year ACA 111 College Student Success GRA 151 Computer Graphics I GRD 141 Graphic Design I GRD 110 Typography I GRD 121 Drawing Fundamentals ENG 111 Expository Writing	I	1 1 2 2 1 3	9 0 3 4 2 3 0	0 0 0 0 0 Clin/WkExp	1 2 4 3 2 3
Chring let year	Total	10	12	0	15
Spring - 1st year GRA 152 Computer Graphics II GRD 142 Graphic Design II GRA 255 Image Manipulation I GRD 131 Illustration I ENG 114 Prof Research & Report	rting	1 2 1 1 3	3 4 3 0	0 0 0 0	2 4 2 2 3
S	Total	8	13	0	13
Summer - 1st year BUS 110 Introduction to Business MAT 140 Survey of Mathematics MAT 140A Survey of Mathematics I OR a higher Math	Lab	3 3 0	0 0 2	0 0 0	3 3 1
Social/Behavioral Science Elect	tive	3	0	0	3
Fall - 2nd year	Total	9	2	0	10
GRA 153 Computer Graphics III GRD 180 Interactive Design GRD 241 Graphic Design III GRD 265 Digital Print Production MKT 120 Principles of Marketing		1 1 2 1 3	3 4 4 4 0	0 0 0 0 0	2 3 4 3 3
	Total	8	15	0	15
Spring - 2nd year GRD 249 Advanced Design Practic GRD 280 Portfolio Design Humanities/Fine Arts Elective Program Elective OR Co-op W		1 2 3	9 4 0	0 0 0	4 4 3 3
	Total	6	13	0	14
	Grand Total	41	55	0	67
Program Electives- Must be selected from the following list: ART 131, ART 264, CIS 110, COE XXX, GRA 121, GRA 245, GRA 256, MKT 220, MKT 221, PHO 110, PRN 155, SGD 111, SGD 112, SGD 114, WEB 110, WEB 111, WEB 120.					
Advertising and Graphic Design	ı - Cert. Progra	ım (C30	10	0)
MAJOR COURSES:					4 2
Total Credit Hours Required		•••••		•••••	12
	C. A.B.		(63	014	10)
Advertising and Graphic Desig Suggested Progran	_		(C3	V1(10)
Fall - 1st Year GRD 141 Graphic Design I GRA 151 Computer Graphics I Spring - 1st Year	Total	2 1 3	4 3 7		4 2 6
GRD 142 Graphic Design II GRA 152 Computer Graphics II	Total Grand Total	2 1 3 6	3 7	0	4 2 6 12

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AIR CONDITIONING, HEATING, AND REFRIGERATION TECHNOLOGY

Diploma Program (D35100)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours Minimum time for completion: Day — two semesters full-time attendance; Evening — four semesters of part-time attendance. The Diploma is awarded graduates of this curriculum. The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems. Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. Diploma graduates should be able to assist in the start up, preventive maintenance, service, repair, and/ or installation of residential and light commercial systems.

CENEDAL EDUCATION COURSES.

GENERAL EDUCATION COURSES:SHC
English/Communications:
ENG 102 Applied Communications II
OR
ENG 111 Expository Writing
Natural Sciences/Mathematics:
MAT 101 Applied Mathematics I
OR
MAT 115 Mathematical Models
MAJOR COURSES:
AHR 110 Intro to Refrigeration
AHR 111 HVACR Electricity
AHR 112 Heating Technology
AHR 113 Comfort Cooling
AHR 114 Heat Pump Technology4
AHR 130 HVAC Controls
AHR 151 HVAC Duct Systems I
AHR 160 Refrigerant Certification
AHR 180 HVACR Customer Relations
AHR 210 Residential Building Code
AHR 211 Residential System Design
COE 110 World of Work
Total Credit Hours Required39

CTS 080 Computing Fundamentals

DEVELOPMENTAL COURSE REQUIREMENTS*

Air Conditioning, Heating and Refrigeration • D35100 Suggested Program Sequence Day

Fall - 1st year AHR 110 Intro to Refrigeration AHR 111 HVACR Electricity AHR 112 Heating Technology AHR 151 HVAC Duct Systems I AHR 160 Refrigeration Certification AHR 211 Residential Systems Design	2 2 2 1 1 2	6 2 4 3 0 2	0 0 0 0 0	5 3 4 2 1 3
Total	10	17	0	18
Spring - 1st year AHR 113 Comfort Cooling AHR 210 Residential Building Code AHR 114 Heat Pump Technology AHR 130 HVAC Controls AHR 180 HVACR Customer Relations COE 110 World of Work MAT 101 Applied Mathematics I OR MAT 115 Mathematical Models	2 1 2 2 1 1 2 2 2	4 2 4 2 0 0 2 2	0 0 0 0 0 0 0	4 2 4 3 1 1 3 3
Total	10	14	0	18
Summer - 1year ENG 102 Applied Communications II OR ENG 111 Expository Writing	3	0	0	3
Total Grand Total	3 23	0 31	0	3 39

Air Conditioning, Heating and Refrigeration • D35	100
Suggested Program Sequence Night	/kExp

Suggested Frogram Sequence right					
Fall - 1st year	Class	Lab	Clin/WkEx	Credit	
AHR 110 Intro to Refrigeration AHR 111 HVACR Electricity MAT 101 Applied Mathematics I OR MAT 115 Mathematical Models	2 2 2 2	6 2 2 2	0 0 0 0	Credit	
Total	6	10	0	11	
Spring - 1st year	O	10	U	11	
AHR 160 Refrigeration Certification AHR 113 Comfort Cooling AHR 130 HVAC Controls	1 2 2	0 4 2	0 0 0	1 4 3	
Total	5	6	0	8	
Fall - 2nd year AHR 112 Heating Technology AHR 151 HVAC Duct Systems I AHR 211 Residential Systems Design	2 1 2	4 3 2	0 0 0	4 2 3	
Total	5	9	0	9	
Spring - 2nd year AHR 114 Heat Pump Technology AHR 180 HVACR Customer Relations AHR 210 Residential Building Code COE 110 World of Work	2 1 1 1	4 0 2 0	0 0 0 0	4 1 2 1	
Total	5	6	0	8	
Summer - 2nd year ENG 102 Applied Communications II OR ENG 111 Expository Writing		0	0	3	
Total	3	0	0	3	
Grand Total	23	31	0	39	

Air Conditioning, Heating and Refrigeration Certificate • C35100

MAJOR COURSES:

SHC

AHR	110	Intro to Refrigeration	5
AHR	111	HVACR Electricity	3
AHR	112	Heating Technology	4
AHR	160	Refrigerant Certification	1

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Air Conditioning, Heating and Refrigeration Certificate • C35100 Suggested Program Sequence Day

Fall - 1	lst yea	ır					
AHR	110	Intro to Refrigeration	2	6	0	5	
AHR	111	HVACR Electricity	2	2	0	3	
AHR	112	Heating Technology	2	4	0	4	
AHR	160	Refrigeration Certification	1	0	0	1	
		Total	7	12	0	13	
		Grand Total	7	12	0	13	

Air Conditioning, Heating and Refrigeration Certificate • C35100 Suggested Program Sequence Night

Fall - 1st year				
AHR 110 Intro to Refrigeration	2	6	0	5
AHR 111 HVACR Electricity	2	2	0	3
Total	4	8	0	8
Spring - 1st year				
AHR 160 Refrigeration Certification	1	0	0	1
Total	1	0	0	1
Summer - 2nd year				
AHR 112 Heating Technology	2	4	0	4
Total	2	4	0	4
Grand Total	7	12	0	13

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

ARCHITECTURAL TECHNOLOGY **A.A.S. Program (A40100)**

Most courses required to meet graduation requirements in this curriculum are offered during day hours only. Minimum time for completion: four semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum.

The Architectural Technology curriculum prepares individuals with knowledge and skills that can lead to employment in the field of architecture or one of the associated professions. Students receive instruction in construction document preparation, materials and methods, environmental and structural systems, building codes and specifications, and computer applications, as well as complete a design project. Optional courses may be provided to suit specific career needs. Upon completion graduates have career opportunities within the architectural, engineering, and construction professions as well as positions in industry and government.

GENER/	AL EDUCATION COURSES:SHC
	ommunications:
ENG 111	Expository Writing
ENG 114	Prof Research & Reporting
OR	To research & reporting
ENG 112	Argument-Based Research
OR	Algument-Dased Research
ENG 113	Literature-Based Research
	s/Fine Arts :
Elective	3 inc Arts .
	iences/Mathematics:
MAT 121	Algebra/Trigonometry I
	avioral Sciences:
Elective	avioral Sciences
Elective	
MAJOR C	COURSES:
ARC 111	Intro to Arch Technology
ARC 112	Constr Matls & Methods
ARC 113	Residential Arch Tech
ARC 114	Architectural CAD
ARC 114A	Architectural CAD Lab
ARC 119	Structural Drafting3
ARC 131	Building Codes
ARC 131	Specifications and Contracts
ARC 211	Light Constr Technology
ARC 213	Design Project
ARC 220	Adv Architect CAD2
ARC 230	Environmental Systems 4
ARC 235	Architectural Portfolio
ARC 240	Site Planning 3
ARC 250	Survey of Architecture
CIS 110	Introduction to Computers
CIV 230	Construction Estimating3
	5
Co-op Opt education i	tion: Qualified students may elect to take 2 credit hours of cooperative n place of ARC 132.
Total Cre	dit Hours Required64
	PMENTAL COURSE REQUIREMENTS*
CTS 08	
ENG 09	
	MA 010, DMA 020, DMA 030, DMA 040, DMA 050
RED 09	0 Improved College Reading

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Description section for prerequisite course information.

Architectural Technology • A40100 **Suggested Program Sequence Day**

Fall - 1st yea	ar		Class	Lab	Clin/WkExp	Credit
ARC 111	Intro to Architectural Tecl	nology	1	6	0	3
ARC 111	Construction Materials an		3	2	0	4
ARC 250	Survey of Architecture	a monous	3	0	0	3
CIS 110	Introduction to Computers	c	2	2	0	3
	ehavioral Science Elective	3	3	0	0	3
		Total	12	10	0	16
Spring - 1st	year					
ARC 113	Residential Arch Technolo	ogy	1	6	0	3
ARC 114	Architectural CAD	63	1	3	0	2
ARC 114A	Architectural CAD Lab		0	3	0	1
ARC 131	Building Codes		2	2	0	3
ENG 111	Expository Writing		3	0	0	3
MAT 121	Algebra/Trigonometry I		2	2	0	3
		Total	9	16	0	15
Fall - 2nd ye	ear					
ARC 119	Structural Drafting		2	2	0	3
ARC 211	Light Construction Techr	nology	1	6	0	3
ARC 220	Adv Architectural CAD		1	3	0	2
ARC 240	Site Planning		2	2	0	3
CIV 230	Construction Estimating		2	3	0	3
ENG 114	Prof. Research and Reporti	ng (Preferred)	3	0	0	3
OR ENC	3 112 Argument-Based Res		3	0	0	3
	G 113 Literature-Based Res		3	0	0	3
Spring - 2nd	vear	Total	11	16	0	17
ARC 132	Specifications and Contra	cts	2	0	0	2
ARC 213	Design Project		2	6	0	4
ARC 230	Environmental Systems		3	3	0	4
ARC 235	Architectural Portfolio		2	3	0	3
	ies/Fine Arts Elective		3	0	0	3
		Total	12	12	0	16
		Grand Total	44	54	0	64

Co-op Option: Qualified students may elect to take up to 2 credit hours of cooperative education in place of ARC 132.

ASSOCIATE DEGREE NURSING A.A.S. Program (A45110)

Courses required to meet graduation requirements in this curriculum are offered during day hours only. Minimum time for completion: five semesters full-time attendance. The Associate in Applied Science Degree is awarded to graduates of this curriculum.

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, individualized 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.

	L EDUCATION COURSES:SHC
U	nmunications:
ENG 111	Expository Writing3
ENG 112 OR	Argument-Based Research 3
ENG 113 OR	Literature-Based Research
ENG 114	Prof Research & Reporting
Humanities/	Fine Arts:
Elective	3
Natural Scie	nces/Mathematics:
BIO 168	Anatomy and Physiology I4
BIO 169	Anatomy and Physiology II4
Social/Beha	vioral Sciences:
PSY 150	General Psychology
MAJOR CO	OURSES:
BIO 275	Microbiology4
CIS 111	Basic PC Literacy
NUR 111	Intro to Health Concepts
NUR 112	Health-Illness Concepts 5
NUR 113	Family Health Concepts 5
NUR 114	Holistic Health Concepts
NUR 211	Health Care Concepts
NUR 212	Health System Concepts
NUR 213	Complex Health Concepts
PSY 241	Developmental Psych
Total Cred	it Hours Required72
DEVELOP	MENTAL COURSE REQUIREMENTS*
CTS 080	Computing Fundamentals
ENG 090	
MAT DM	IA 010, DMA 020, DMA 030, DMA 040, DMA 0505
RED 090	Improved College Reading4

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

	Associate Degree Nu Suggested Program	0	7	•	Clin/WkExp	dit
Fall - 1st ye	ear		Class	Lab	: :	Credit
NUR 111	Intro to Health Concepts		4	6	6	8
BIO 168 PSY 150	Anatomy & Physiology I General Psychology		3	3	0	4 3
CIS 111	Basic PC Literacy		1	2	0	2
		Total	11	11	6	17
Spring - 1st			2	0	6	_
NUR 112 NUR 114	Health-Illness Concepts Holistic Health Concepts		3	0	6	5 5
BIO 169	Anatomy & Physiology II		3	3	0	4
PSY 241	Developmental Psychology		3	0	0	3
Summer - 1s	st vear	Total	12	3	12	17
NUR 212	Health System Concepts		3	0	6	5
ENG 111	Expository Writing		3	0	0	3
F. II. 2. 1		Total	6	0	6	8
Fall - 2nd ye NUR 113			3	0	6	5
NUR 211	Health Care Concepts		3	0	6	5
BIO 275	Microbiology nities Elective		3	3	0	4
Tramai	nues Licetive	Total	-			17
Spring - 2nd	l year	10141	12	3	12	1 /
NUR 213	Complex Health Concepts	.formo.d)	4	3	-	10
OR	terature-Based Research (Pre ENG 112 Argument-Based I		3	0	0	3
OR	ENG 114 Prof Research & F	Reporting	. 3	0_	0	3
(Students con	nsidering transfer to a four-year					
		Total	7	3 20	51	13
		Grand Total	48	20	31	12
Associate I Spring - 1st NUR 111 A	Degree Nursing • A45110 Sugaryear	ggested Prog. S	-			
BIO 168	Anatomy & Physiology	I	2 3	3	3 0	4
CIS 111	Basic PC Literacy		1	2	0	2
Cramana 1	-t	Total	6	8	3	10
Summer - 1: NUR 111 Bl			2	3	3	4
BIO 169	Anatomy & Physiology	II	2 3	3	0	4
PSY 150	General Psychology	T. 4 1	3	0	0	3
Fall - 1st year	ar	Total	8	6	3	11
NUR 112	Health-Illness Concepts		3	0	6	5
NUR 114 PSY 241	Holistic Health Concepts Developmental Psycholo		3	0	6	5
101 211	Developmental 1 sycholo	Total	9	0	12	13
Spring - 2nd		10141				
NUR 211 NUR 212	Health Care Concepts Health System Concepts		3	0	6	5 5
ENG 111	Expository Writing		3	0	0	3
		Total	9	0	12	13
Summer - 21 NUR 113			3	0	6	5
BIO 275	Family Health Concepts Microbiology		3	3	0	5 4
	0.	Total	6	3	6	9
Fall - 2nd ye	ear					
NUR 213 A	B Complex Health Concept	ts	2	2	7	5
	Humanities Elective	_	3	0	0	3
		Total	5	2	7	8
Spring - 3rd NUR 213 B		ts	2	1	8	5
ENG 113	Literature-Based Research	ch (Preferred)	3	0	0	3
OR	ENG 112 Argument-Based I		3	0	0	3
OR (Students con	ENG 114 Prof Research & F nsidering transfer to a four-year		3 ıld ta	0 ke E	0 NG	3 113)
	<i>5</i>	Total	5	1	8	8
		Grand Total	48	20	51	72

ASSOCIATE DEGREE NURSING **Hickory RIBN Articulation Agreement** A.A.S. Program (A45110RB)

Catawba Valley Community College Associate Degree in Nursing And Lenoir-Rhyne University

Bachelors of Science Degree with a Major in Nursing

This articulation agreement between Catawba Valley Community College (CVCC) and Lenoir-Rhyne University (LRU) allows graduates of Hickory RIBN to earn both an Associate Degree in Nursing from CVCC and a Bachelor of Science Degree with a Major in Nursing from LRU in 10 semesters through dual admission and continued enrollment. Courses required to meet graduation requirements in this curriculum are offered during day hours only. Minimum time for completion of the A.A.S. portion is seven semesters full-time attendance. During this time students will be dually enrolled in CVCC and LRU. The Associate in Applied Science Degree is awarded to graduates of this curriculum, after which students will be eligible to take the NCLEX. The remaining three semesters will be taken at Lenoir-Rhyne University for a total of 10 program semesters.

Non-nursing courses completed at CVCC for the first three years will, as designated, satisfy course requirements towards the Bachelor of Science degree.

All courses designated by (LRU/BS) shown in the CVCC sequence will be completed at LRU for the first three years of Hickory RIBN. A total of 128 semester hours are required for students to complete their bachelors of science degree with a major in Nursing.

All courses designated by (BS) will be taken on CVCC's campus, and will be credited toward the bachelor of science degree.

Nursing students will enroll in NUR 300, Transition to Professional Practice (3 SHC), during the ninth semester. Successful completion of this course results in the awarding of a 39 semester hour block of credit.

	L EDUCATION COURSES:SHC mmunications:
ENG 111 ENG 113	Expository Writing
Humanities. Elective	/Fine Arts:3
Natural Scie BIO 168 BIO 169	ences/Mathematics: Anatomy and Physiology I
	vioral Sciences:
PSY 150	General Psychology
MAJOR C BIO 275 CIS 111 NUR 111 NUR 112 NUR 113 NUR 114 NUR 211 NUR 212 NUR 213 PSY 241	OURSES: 4 Microbiology
CTS 080 ENG 090	0 Composition Strategies
*Developm	ental coursework (including all prerequisites) will be required of students

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Associate Degree Nursing/RIBN • A45110RB Suggested Program Sequence Day						
	Suggested Hogian	1 Sequence	Class	qı	Clin/WkExp	Credit
Fall - 1st yea BIO 168 CHM 131 CHM 131A ENG 111 PSY 150 FYE 191	Anatomy & Physiology I Anatomy & Physiology I Introduction to Chemistry Introcudtion to Chemistry Expository Writing General Psychology First Year Experience I (L	(BS) Lab (BS)	3 3 0 3 3	9 3 0 0 0	0 0 0 0 0	5 4 3 1 3 3 3
		Total	12	6	0	17
Spring - 1st y BIO 169 CIS 110 OR	Anatomy & Physiology I Introduction to Computer		3 2	3	0	4 3
CIS 111 MAT 151 MAT 151A PSY 241 FYE 192	Basic PC Literacy AND PED (1 Hour Activity) (B Statistics I (BS) Statistics I Lab (BS) Developmental Psycholog First Year Experience II (I	gy	3 0 3 0 3	2 2 0 2 0	0 0 0 0	2 1 3 1 3 3
		Total	11/12	5/6	0	17
Fall - 2nd yea NUR 111 BIO 275 Foreig	Intro to Health Concepts Microbiology In Language (LRU/BS)		4 3	6	6	8 4 3
		Total	7	9	6	15
Spring - 2nd NUR 112 NUR 114 HEA 110 Foreig	year Health-Illness Concepts Holistic Health Concepts Personal Health/Wellness n Language (LRU/BS)	(BS)	3 3 3	0 0 0	6 6 0	5 5 3 3
		Total	9	0	12	16
Summer - 2nd NUR 212 ENG 113	d year Health System Concepts Literature-Based Research		3 3	0	6	5
		Total	6	0	6	8
Fall - 3rd yea NUR 113 NUR 211 REL 100 Fine A	r Family Health Concepts Health Care Concepts Christian Faith (LRU/BS) rts Elective		3 3	0 0	6 6	5 5 3 3
		Total	9	0	12	16
Spring 3rd ye NUR 213 COM 110 OR	ear Complex Health Concepts Introduction to Communic	s ation (BS)	4 3	3	15 0	10
COM 231 SOC XXX	Public Speaking (BS) Sociology (LRU/BS)		3	0	0	3
	,	Total	7	3	15	16
	Gran	d Total	61/62	23/24	1 51	105
• Semester Hour Totals include courses taken at Lenoir Rhyne						
Note: The	following courses will be t	aken at Lei	noir-Rh	yne I	Univ	ersi

upon completion of the A.A.S., at CVCC.

Summ NUR NUR		year Assessment of Health Status (LRU) Analytical Methods for Evidence-Based Practi	ce (LRU)	3
			Total	6
Fall 4 NUR NUR NAT	455 388	Transition to Professional Practice (LRU) Health Promotion with Populations & Fami Environmental Science-Level II (LRU) ities Level I (LRU)	lies (LRU)	3 3 3
g :	4.1		Total	12
Spring NUR NUR HSB		ar Concepts of Leadership in Nursing (LRU) Applied Health Care (LRU) Level II (LRU)		3 4 3
HUM	388	Level II (LRU) Elective-Select Topics (LRU)		3 2
			Total	12

ASSOCIATE in GENERAL EDUCATION A.G.E. Program (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.

*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.

GENERAL EDUCATION CORE (15 SHC)

The general education core includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Within the core, colleges must include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers (SACS Criteria, 4.2.2).

English Composition (6 SHC)

Humanities/Fine Arts (3 SHC)

Select courses from the following discipline areas: music, art, drama, dance, foreign languages, interdisciplinary humanities, literature, philosophy and religion.

Social/Behavioral Sciences (3 SHC)

Select courses from the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology.

Natural Sciences/Mathematics (3 SHC)

Mathematics

Select courses from the following discipline areas: college algebra, trigonometry, calculus, computer science, and statistics.

Natural Sciences

Select courses from the following discipline areas: astronomy, biology, chemistry, earth sciences, physics, and/or general science.

OTHER REQUIRED HOURS (49-50 SHC)

Other required hours include additional general education and professional courses. A maximum of 7 SHC in health, physical education, college orientation, and/or study skills may be included as other required hours.

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 64-65

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AUTOMOTIVE SYSTEMS TECHNOLOGY A.A.S. Program (A60160)

Courses required to meet graduation requirements for the Associate in Applied Science Degree are offered during day hours. Courses required to meet graduation requirements for the Diploma are offered during afternoon and evening hours. Minimum time for completion: Day--five semesters full-time attendance; Evening--five semesters part-time attendance. The Associate in Applied Science degree or Diploma is awarded graduates of this curriculum. The Automotive Systems Technology curriculum prepares individuals for employment as Automotive Service Technicians. Ît provides an introduction to automotive careers and increases student awareness of the challenges associated with this fast and ever-changing field. Classroom and lab experiences integrate technical and academic course work. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/transaxles, engine repair, climate control, and manual drive trains. Upon completion of this curriculum, students should be prepared to take the ASE exams and be ready for full-time employment in dealerships and repair shops in the automotive service industry. The Automotive Systems Technology program is ASE Accredited by the National Automotive Technicians Education Foundation.

		EDUCATION COURSES:SHC
Englis		nunications:
ENG	111 1	Expository Writing
ENG OF		Prof Research & Reporting
ENG 1		rgument-Based Research
ENG 1		terature-Based Research
	nities/Fir	
Electiv		3
	-	es/Mathematics:
		Mathematical Models
MAT		wiatnematical wiodels
OI		
		College Algebra
MAT	161A (College Algebra Lab
Social	Behavio	oral Sciences:
Electiv	/e	3
MAJO	OR COU	
AUT	116	Engine Repair
AUT	116A	Engine Repair Lab
AUT	141	Suspension & Steering Sys
AUT	141A	Suspension & Steering Lab
AUT	151	Brake Systems. 3
AUT	151A	Brake Systems Lab
AUT	163	Adv Auto Electricity
AUT	163A	Adv Auto Electricity Lab
AUT	181	Engine Performance 1
AUT	181A	Engine Performance 1 Lab
AUT	183	Engine Performance 2
AUT	212	Auto Shop Management
AUT	221	Auto Transm/Transaxles
AUT	221A	Auto Transm/Transax Lab
AUT	231	Man Trans/Axles/Drtrains. 3
AUT	231A	Man Trans/Ax/Drtrains Lab
AUT	281	Adv Engine Performance 3
COE	110	World of Work
TRN	110	Intro to Transport Tech
TRN	120	Basic Transp Electricity
TRN	140	Transp Climate Control
TRN	140A	Transp Climate Cont Lab
TRN	170	Pc Skills for Transp
		-r

Co-op Option: Qualified students may elect to take up to 7 credit hours of cooperative education in place of AUT 116A, AUT 141A, AUT 151A, AUT 163A, AUT 181A, AUT 221A, or AUT 231A.

Total Credit Hours Required				
DEVE	ELOPMENTAL COURSE REQUIREMENTS*			
CTS	080 Computing Fundamentals	3		
ENG	090 Composition Strategies	3		
MAT	DMA 010, DMA 020, DMA 030, DMA 040, DMA 05	505		
RED	090 Improved College College Reading	4		

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Automotive Systems Technology • Automotive Systems Technology • Automotive Suggested Program Sequence D				
Fall - 1st year	Class	Lab	Clin/WkExp	Credit
AUT 116 Engine Repair (1st 8 weeks) AUT 116AEngine Repair Lab (1st 8 weeks)	2	3	0	3
AUT 181 Engine Performance I (2nd 8 weeks)	2	3	0	3
3	0	3	0	1
TRN 110 Intro to Transport Tech	1	2	0	2 5
TRN 120 Basic Transp Electricity TRN 170 Pc Skills for Transp	1	2	0	2
Total	10	19		17
Spring - 1st year				
AUT 183 Engine Performance II (1st 8 weeks)	2	6	0	4
AUT 151 Brake Systems (2nd 8 weeks) AUT 151ABrake Systems Lab (2nd 8 weeks)	0	3	0	3 1
AUT 163 Adv Auto Electricity	2	3	0	3
AUT 163AAdv Auto Electricity Lab	0	3	0	1
COE 110 World of Work	1	0	0	1
Total	6	18	0	13
Summer - 1st year ENG 111 Expository Writing	3	0	0	3
Social/Behavioral Science Elective	3	0	0	3
Total	6	0	0	6
Fall - 2nd year	_		_	•
AUT 141 Suspension & Steering Sys (2nd 8 Weeks) AUT 141A Suspension & Steering Lab (2nd 8 Weeks)	2	3	0	3
AUT 212 Auto Shop Management	3	0	0	3
AUT 281 Adv Engine Performance	2	2	0	3
TRN 140 Transp Climate Control (1st 8 weeks)	1	2	0	2
TRN 140ATransp Climate Cont Lab (1st 8 weeks)	1	2	0	2
Total	9	12	0	14
Spring - 2nd year AUT 221 Auto Transm/Transaxles (2nd 8 Weeks)	2	3	0	3
AUT 221 Auto Transm/Transaxles (2nd 8 Weeks)	0	3	0	1
AUT 231 Man Trans/Axles/Drtrains (1st 8 weeks)	2	3	0	3
AUT 231AMan Trans/Axles/Drtrains Lab (1st 8 weeks)	0	3	0	1
MAT 115 Mathematical Models	2	2	0	3
OR MAT 161 College Algebra MAT 161A College Algebra Lab	3	0	0	3 1
	/7	14	0	11/12
Summer - 2nd year	,	14	U	11/12
ENG 114 Prof. Research & Reporting (Preferred)	3	0	0	3
OR ENG 112 Argument-Based Research	3	0	0	3
OR ENG 113 Literature-Based Research	3	0	0	3
Humanities/Fine Art Elective Total	3	0	0	3
Total	J	U	U	J

Co-op Option: Qualified students may elect to take up to 7 credit hours of cooperation education in place of AUT 116A, AUT 141A, AUT 151A, AUT 163A, AUT 181A, AUT 221A, or AUT 231A.

Grand Total

43/44 63 0 67/68

AUTOMOTIVE SYSTEMS TECHNOLOGY Diploma Program (D60160)

GENERA	L EDUCATION COURSES:SHC				
English/Co	mmunications:				
ENG 111	Expository Writing				
	ences/Mathematics:				
MAT 115	Mathematical Models				
MAJOR C	OURSES:				
AUT 116	Engine Repair				
AUT 116	A Engine Repair Lab				
AUT 141	Suspension & Steering Sys				
AUT 141	A Suspension & Steering Lab				
AUT 151	Brake Systems				
AUT 151	A Brake Systems Lab				
AUT 163	Adv Auto Electricity				
AUT 181	Engine Performance 1				
AUT 181	A Engine Performance 1 Lab				
AUT 183	Engine Performance 24				
AUT 221	Auto Transm/Transaxles				
AUT 221	A Auto Transm/Transax Lab				
AUT 231	Man Trans/Axles/Drtrains				
AUT 231	A Man Trans/Ax/Drtrains Lab				
COE 110	World of Work1				
TRN 110	Intro to Transport Tech				
TRN 120	Basic Transp Electricity5				
TRN 140	Transp Climate Control				
TRN 140					
Automotive	Systems Technology				
	on: Qualified students may elect to take up to 4 credit hours of cooperative				
	place of AUT 116A, AUT 141A, AUT 151A, AUT 181A, AUT 221A, or				
AUT 231A					
Total Cred	Total Credit Hours Required48				
DEVELOR	MENTAL COURSE REQUIREMENTS*				

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Composition Strategies....

Improved College Reading......4

DMA 010, DMA 020, DMA 030, DMA 040, DMA 050.....

CTS 080 Computing Fundamentals.....

ENG 090 RED 090

Automotive Systems Technology - Diploma • D60160 Suggested Program Sequence Evening

		Suggested Program Sequence Even	ıng				
AUT AUT TRN TRN	T 116A I 110	Engine Repair (2nd 8 Wks) Engine Repair Lab (2nd 8 Wks) Intro to Transport Tech Basic Transp Electricity (1st 8 Wks)	2 0 1 4	3 3 2 3	0 0 0 0	3 1 2 5	
		Total	7	11	0	11	
Sprii AUT AUT AUT MAT	151A 163	Brake Systems (1st 8 Wks) Brake Systems Lab (1st 8 Wks) Adv Auto Electricity (2nd 8 Wks) Mathematical Models	2 0 2 2	3 3 2	0 0 0 0	3 1 3 3	
		Total	6	11	0	10	
Fall AUT AUT AUT AUT	7 181A 7 231	Engine Performance I (1st 8 Wks) Engine Performance I Lab (1st 8 Wks) Man Trans/Axles/Drtrains (2nd 8 Wks) Man Trans/Axles/Drtrains Lab (2nd 8 Wks)	2 0 2 0	3 3 3 3	0 0 0 0	3 1 3 1	
		Total	4	12	0	8	
Sprii AUT AUT AUT ENC	221A 183	ear Auto Transm/Transaxles (1st 8 Wks) Auto Transm/Transaxles Lab (1st 8 Wks) Engine Performance II (2nd 8 Wks) Expository Writing	2 0 2 3	3 3 6 0	0 0 0 0	3 1 4 3	
		Total	7	12	0	11	
Fall AUT AUT TRN TRN	T 141A T 140	Suspension & Steering (2nd 8 Wks) Suspension & Steering Lab (2nd 8 Wks) Transp Climate Control (1st 8 weeks) Transp Climate Cont Lab (1st 8 weeks)	2 0 1 1	3 3 2 2	0 0 0 0	3 1 2 2	
		Total	4	10	0	8	
		Grand Total	28	56	0	48	

AUTOMOTIVE SYSTEMS TECHNOLOGY

Under Car Services Concentration Cert. Program (C60160)					
Major Cour	ses			SF	IC
AUT 141	Suspension & Steering Sys				3
AUT 141A	Suspension & Steering Lab				
AUT 151 AUT 151A	Brake Systems Lab				3
TRN 110	Intro to Transport Tech				2
TRN 120	Basic Transp Electricity				
Total Cred	it Hours Required	•••••	•••••		15
DEVELOPM	ENTAL COURSE REQUIREMENTS*				
	Computing Fundamentals				
DMA 010, DN	MA 020, DMA 030				3
RED 080 I	ntro to College Reading			•••••	4
the areas of re	te placement test scores indicate a need for greading, English, mathematics, and computer. ptions section for prerequisite course informa	Pleas	orofic e ref	er t	cy in the
	Systems Technology - Under Car Servi				ration
	rtificate Program (C60160) Suggested	Sequ	ence	9	
Fall - 1st Y	= -				_
TRN 110	Intro to Transport Tech	1	_	0	2
TRN 120	Basic Transp Electricity		3		5
AUT 141	Suspension & Steering Sys	2	3	0	3
AUT 141A	Suspension & Steering Lab	0	3	0	1
	Total	7	11	0	11
Spring - 1st	t Year				
AUT 151	Brake Systems	2	3	0	3
AUT 151A	Brake Systems Lab	0	3	0	1

Co-op Option: Qualified students may elect to take up to 2 credit hours of cooperation education in place of AUT 141A, AUT 151A.

Grand Total

Total

2 6 0 4

9 17 0 15

BASIC LAW ENFORCEMENT TRAINING Certificate Program (C55120)

This course is designed, developed, monitored, and constantly updated by the Criminal Justice Training and Standards Division of the North Carolina Department of Justice. Minimum time for completion is approximately six months. Classes meet during evening hours and on Saturdays.

Basic Law Enforcement Training (BLET) is designed to give students essential skills required for entry-level employment as law enforcement officers with state, county, or municipal governments, or with private enterprise. This program utilizes State commission-mandated topics and methods of instruction. General subjects include, but are not limited to, criminal, juvenile, civil, traffic, and alcoholic beverage laws; investigative, patrol, custody, and court procedures; emergency responses; and ethics and community relations. Successful graduates receive a curriculum certificate and are qualified to take certification examinations mandated by the North Carolina Criminal Justice Education and Training Standards Commission and/or the North Carolina Sheriffs' Education and Training Standards Commission.

The application cycle for the Fall class begins in March and ends in June, with the application cycle for the Spring class beginning in August and ending in November. Contact the Law Enforcement Training Director at 828-327-7000, extension 4448 for further information on the application process and to receive an application packet.

MAJOR COURSES:	SHC
CJC 100 Basic Law Enforcement Training	19
Total Credit Hours Required	19

BUSINESS ADMINISTRATION A.A.S. Program (A25120)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. Minimum time for completion: Day — four semesters full-time attendance; Evening — will vary according to semester load of student (usually eight to nine semesters.) The Associate in Applied Science Degree is awarded graduates of this curriculum.

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. Graduates are prepared for employment opportunities in governmental agencies, financial institutions, and large to small business or industry.

GENERAL EDUCATION COURSES:.....SHC

	tions:	
ENG 111 Exposite	ory Writing	3
ENG 112 Argume	nt-Based Research	3
OR ENG 113	Literature-Based Research	3
	Prof Research & Reporting	3
Humanities/Fine Arts		
Elective		3
Natural Sciences/M	athematics:	
MAT 115 Mathemati	cal Models	3
	College Algebra	
MAT 161A	College Algebra Lab	1
Social/Behavioral Sc	C C	
Elective		3
MAJOR COURSES		
	Financial Acet	
	es in Managerial Acct	
	ction to Business	
	s Law I	
	s Law II	
	es of Management	
	s Ethicss Managment Issues	
	etion to Computers	
	f Work	
	Microeconomics	
	Macroeconomics	
	es of Marketing	
Business Electives		
Ctudanta ara ragi	-in-14-4-1-12 CHC from the full-rainer	
	uired to take 12 SHC from the following:	
BUS 125	Personal Finance	
BUS 125 BUS 139	Personal Finance 3 Entrepreneurship I 3	
BUS 125 BUS 139 BUS 153	Personal Finance	
BUS 125 BUS 139 BUS 153 BUS 230	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 220	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 220 MKT 221	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3 Consumer Behavior 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 220	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 220 MKT 221 MKT 223	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3 Consumer Behavior 3 Customer Service 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 220 MKT 221 MKT 223 Co-op Option: Oua	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3 Consumer Behavior 3 Customer Service 3	era-
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 221 MKT 223 Co-op Option: Quative education in place	Personal Finance	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 221 MKT 223 Co-op Option: Quative education in place	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3 Consumer Behavior 3 Customer Service 3	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 123 MKT 221 MKT 221 MKT 223 Co-op Option: Quative education in place	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3 Consumer Behavior 3 Customer Service 3 liffied students may elect to take up to 6 credit hours of cooper of 6 hours Business electives.	
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 123 MKT 221 MKT 221 Total Credit Hours DEVELOPMENTA	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3 Consumer Behavior 3 Customer Service 3 lified students may elect to take up to 6 credit hours of coope of 6 hours Business electives. s Required 66- LCOURSE REQUIREMENTS*	67
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 220 MKT 221 MKT 223 Co-op Option: Quative education in place Total Credit Hours DEVELOPMENTA CTS 080 Comp	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3 Consumer Behavior 3 Customer Service 3 lified students may elect to take up to 6 credit hours of coope of 6 hours Business electives. 66- LCOURSE REQUIREMENTS* uting Fundamentals	67
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 220 MKT 221 MKT 223 Co-op Option: Quative education in place Total Credit Hours DEVELOPMENTA CTS 080 Comp	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3 Consumer Behavior 3 Customer Service 3 lified students may elect to take up to 6 credit hours of coope of 6 hours Business electives. 66- LCOURSE REQUIREMENTS* uting Fundamentals	67
BUS 125 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 220 MKT 221 MKT 221 Total Credit Hours DEVELOPMENTA CTS 080 Comp ENG 090 Comp MAT DMA 010, D	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3 Consumer Behavior 3 Customer Service 3 liffied students may elect to take up to 6 credit hours of coope of 6 hours Business electives. 8 Required 66- L COURSE REQUIREMENTS* uting Fundamentals ossition Strategies 64 L COURSE REQUIREMENTS* uting Fundamentals ossition Strategies 66- MA 020, DMA 030, DMA 040, DMA 050, DMA 060,	3 3
BUS 125 BUS 139 BUS 139 BUS 153 BUS 230 BUS 245 BUS 253 COE XXX CTS 130 ETR 215 ETR 220 ETR 230 MKT 123 MKT 220 MKT 221 MKT 221 MKT 223 Co-op Option: Quative education in place Total Credit Hours DEVELOPMENTA CTS 080 Comp ENG 090 Comp ENG 090 Comp DMA 010, D DMA 010, D DMA 010, D DMA 070, D	Personal Finance 3 Entrepreneurship I 3 Human Resource Management 3 Small Business Management 3 Entrepreneurship II 3 Leadership and Mgt Skills 3 Co-op Work Experience 1-6 Spreadsheet 3 Law for Entrepreneurs 3 Innovation and Creativity 3 Entrepreneur Marketing 3 Fundamentals of Selling 3 Advertising & Sales Promotion 3 Consumer Behavior 3 Customer Service 3 lified students may elect to take up to 6 credit hours of coope of 6 hours Business electives. 66- LCOURSE REQUIREMENTS* uting Fundamentals	3 3

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Business Administration • A2 Suggested Program Sequence	-		Clin/WkExp	lit
Fall - 1st year BUS 110 Introduction to Business BUS 137 Principles of Management CIS 110 Introduction to Computers ENG 111 Expository Writing MAT 115 Mathematical Models OR MAT 161 College Algebra and MAT 161A College Algebra Lab Total	3 3 3 2 3 2 3 0 13/14	qa7 0 0 2 0 2 0 2 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 1 15/16
Spring - 1st year ACC 120 Prin of Financial Acct BUS 115 Business Law I BUS 240 Business Ethics MKT 120 Principles of Marketing ENG 114 Prof Research & Reporting OR ENG 112 or ENG 113	3 3 3 3 3	2 0 0 0 0	0 0 0 0 0	4 3 3 3 3 3
Fall - 2nd year ACC 121 Principles in Managerial Acct BUS 116 Business Law II ECO 251 Principles of Microeconomics Business Elective Business Elective Social/Behavioral Science Elective	15 3 3 3 3 3 3	2 0 0 0 0 0	0 0 0 0 0 0	16 4 3 3 3 3 3
Spring - 2nd year BUS 285 Business Management Issues COE 110 World of Work ECO 252 Principles of Macroeconomics Business Elective Business Elective Humanities/Fine Arts Elective	18 2 1 3 3 3 3 3 15	2 0 0 0 0 0 2	0 0 0 0 0 0 0	19 3 1 3 3 3 3 16
Grand Total Business Administration • A25120 Suggested	61/62		() Evo	66/67
Fall - 1st year BUS 110 Introduction to Business CIS 110 Introduction to Computers ENG 111 Expository Writing Total Spring - 1st year	3 2 3 8	0 2 0 2	0 0 0 0	3 3 3 9
BUS 137 Principles of Management MAT 115 Mathematical Models OR MAT 161 College Algebra and MAT 161A College Algebra Lab Total	3 2 3 0 5/6	0 2 0 2 2	$\begin{matrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{matrix}$	3 3 1 6/7
Fall - 2nd year ACC 120 Prin of Financial Acct BUS 115 Business Law I Total	3 3 6	2 0 2	0 0 0	4 3 7
Spring - 2nd year BUS 240 Business Ethics MKT 120 Principles of Marketing ENG 114 Prof Research & Reporting OR ENG 112 or ENG 113	3 3 3	0 0 0	0 0 0	3 3 3
Fall - 3rd year ACC 121 Principles in Managerial Acct BUS 116 Business Law II Business Elective Total	9 3 3 3 9	0 2 0 0 2	0 0 0 0 0	9 4 3 3 10
Spring - 3rd year ECO 251 Principles of Microeconomics Business Elective Social/Behavioral Science Elective Total	3 3 3 9	0 0 0 0	0 0 0 0	3 3 3 9
Fall - 4th year Business Elective Business Elective Humanities/Fine Arts Elective Total	3 3 3 9	0 0 0 0	0 0 0 0	3 3 3 9
Spring - 4th year BUS 285 Business Management Issues COE 110 World of Work ECO 252 Principles of Macroeconomics Total Grand Total	2 1 3 6 61/62	2 0 0 2 10	0 0 0 0	3 1 3 7 66/67

Business Administration Diploma Program • D25120	BUSINESS ADMINISTRATION Advanced Certificate #2 (C2512003)
GENERAL EDUCATION COURSES:SHC English/Communications:	MAJOR COURSES: SHC
ENG 111 Expository Writing	ACC 120 Prin of Financial Acct
Social/Behavioral Sciences: Elective	ACC 121 Principles of Managerial Acct
MAJOR COURSES:	ECO 251 Principles of Microeconomics 3
ACC 120 Prin of Financial Acct	ECO 252 Principles of Macroeconomics
BUS 115 Business Law I	Total Credit Hours Required17
BUS 137 Principles of Management	DEVELOPMENTAL COURSE REQUIREMENTS*
CIS 110 Introduction to Computers	CTS 080 Computing Fundamentals
COE 110 World of Work 1 ECO 251 Prin of Microeconomics 3	*Developmental coursework (including all prerequisites) will be required of students
MKT 120 Principles of Marketing	whose placement test scores indicate a need for greater proficiency in the areas of reading.
Business Electives6 Business Diploma Electives - Must be selected from the following list:	English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.
ACC 121, BÛS 116, BUS 125, BUS 153, BUS 230, BUS 253, CTS 130, COE XXX,	
BUS 139, BUS 245, ECO 252, ETR 220, MKT 123, MKT 220, MKT 223.	Business Administration - Advanced Certificate #2 (C251003)
Total Credit Hours Required38	Fall - 1st year
DEVELOPMENTAL COURSE REQUIREMENTS*	ACC 120 Prin of Financial Acct 3 2 0 4 CIS 110 Introduction to Comptuers 2 2 0 3 ECO 251 Principles of Microeconomics 3 0 0 3
CTS 080 Computing Fundamentals	ECO 251 Principles of Microeconomics 3 0 0 3
RED 090 Improved College Reading 4	Total 8 4 0 10
*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section	Spring - 1st year ACC 121 Principles of Managerial Acct 3 2 0 4 ECO 252 Principles of Macroeconomics 3 0 0 3
English, mathematics, and computers. Please refer to the Course Descriptions section	ACC 121 Principles of Managerial Acct 3 2 0 4 ECO 252 Principles of Macroeconomics 3 0 0 3
for prerequisite course information.	Total 6 0 0 7
Business Administration • D25120 Suggested Program Sequence	Grand Total 14 6 0 17
Fall - 1st year	
BUS 110 Introduction to Business 3 0 0 3 BUS 137 Principles of Management 3 0 0 3	
CIS 110 Introduction to Computers 2 2 0 3	DUCINEGO A DAMINIGED ATRIONI
ENG 111 Expository Writing 3 0 0 3 Total 11 2 0 12	BUSINESS ADMINISTRATION
Spring - 1st year ACC 120 Prin of Financial Acct 3 2 0 4	Customer Service Certificate Program (C2512004) MAJOR COURSES: SHC
BUS 115 Business Law I 3 0 0 3	BUS 110 Introduction to Business
BUS 240 Business Ethics 3 0 0 3 MKT 120 Principles of Marketing 3 0 0 3	MKT 120 Principles of Marketing
Total 12 2 0 13	MKT 221 Consumer Behavior
Fall - 2nd year ECO 251 Principles of Microeconomics 3 0 0 3	Total Credit Hours Required12
Business Elective 3 0 0 3 Business Elective 3 0 0 3	Provinces Administration Contamon Service Cont (C2512004)
Total 9 0 0 9	Business Administration - Customer Service Cert (C2512004)
Spring - 2nd year COE 110 World of Work 1 0 0 1	Fall - 1st year BUS 110 Intro to Business 3 0 0 3
Social/Behavioral Science Elective 3 0 0 3	MKT 223 Customer Services 3 0 0 3
	1 MIXI 223 Customer services 5 U U S
Total 4 0 0 4	Total 6 0 0 6
	Total 6 0 0 6
Total 4 0 0 4 Grand Total 36 4 0 38	Total 6 0 0 6
Total 4 0 0 4 Grand Total 36 4 0 38 BUSINESS ADMINISTRATION General Cert. Prog. (C2512001) MAJOR COURSES: SHC	Total 6 0 0 6
Total	Total 6 0 0 6
Total	Total 6 0 0 6
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION
Total	Spring - 1st year
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION
Total	Total 6
Total	Total 6 0 0 6
Total	Total 6
Total	Total 6
Total	Total 6
Total	Total
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 3 0 0 3 3 0 0
Total	Total
Total	Total
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION Marketing Certificate Program (C2512005) MAJOR COURSES: SHC BUS 110 Introduction to Business. 3 MKT 120 Principles of Marketing. 3 MKT 123 Fundamentals of Selling. 3 MKT 220 Advertising & Promotion. 3 Total Credit Hours Required 12 Business Administration - Marketing Certificate (C25120) Fall - 1st year BUS 110 Intro to Business 3 0 0 3 MKT 123 Fundamentals of Selling 3 0 0 3 Total Go 0 6 Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION Marketing Certificate Program (C2512005) MAJOR COURSES: SHC BUS 110 Introduction to Business. 3 MKT 120 Principles of Marketing 3 MKT 123 Fundamentals of Selling 3 MKT 220 Advertising & Promotion 3 Total Credit Hours Required 12 Business Administration - Marketing Certificate (C25120) Fall - 1st year BUS 110 Intro to Business 3 0 0 3 MKT 123 Fundamentals of Selling 3 0 0 3 Total 6 0 0 6 Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Advertising & Promotion 3 0 0 3
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION Marketing Certificate Program (C2512005) MAJOR COURSES: SHC BUS 110 Introduction to Business 3 MKT 120 Principles of Marketing 3 MKT 123 Fundamentals of Selling 3 MKT 220 Advertising & Promotion 3 Total Credit Hours Required 12 Business Administration - Marketing Certificate (C25120) Fall - 1 st year BUS 110 Intro to Business 3 0 0 3 MKT 123 Fundamentals of Selling 3 0 0 3 Total 6 0 0 6 Spring - 1 st year MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 Total 6 0 0 6
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION Marketing Certificate Program (C2512005) MAJOR COURSES: SHC BUS 110 Introduction to Business. 3 MKT 120 Principles of Marketing 3 MKT 123 Fundamentals of Selling 3 MKT 220 Advertising & Promotion 3 Total Credit Hours Required 12 Business Administration - Marketing Certificate (C25120) Fall - 1st year BUS 110 Intro to Business 3 0 0 3 MKT 123 Fundamentals of Selling 3 0 0 3 Total 6 0 0 6 Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Advertising & Promotion 3 0 0 3
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION Marketing Certificate Program (C2512005) MAJOR COURSES: SHC BUS 110 Introduction to Business 3 MKT 120 Principles of Marketing 3 MKT 123 Fundamentals of Selling 3 MKT 220 Advertising & Promotion 3 Total Credit Hours Required 12 Business Administration - Marketing Certificate (C25120) Fall - 1 st year BUS 110 Intro to Business 3 0 0 3 MKT 123 Fundamentals of Selling 3 0 0 3 Total 6 0 0 6 Spring - 1 st year MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 Total 6 0 0 6
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION Marketing Certificate Program (C2512005) MAJOR COURSES: SHC BUS 110 Introduction to Business 3 MKT 120 Principles of Marketing 3 MKT 123 Fundamentals of Selling 3 MKT 220 Advertising & Promotion 3 Total Credit Hours Required 12 Business Administration - Marketing Certificate (C25120) Fall - 1 st year BUS 110 Intro to Business 3 0 0 3 MKT 123 Fundamentals of Selling 3 0 0 3 Total 6 0 0 6 Spring - 1 st year MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 Total 6 0 0 6
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION Marketing Certificate Program (C2512005) MAJOR COURSES: SHC BUS 110 Introduction to Business 3 MKT 120 Principles of Marketing 3 MKT 123 Fundamentals of Selling 3 MKT 220 Advertising & Promotion 3 Total Credit Hours Required 12 Business Administration - Marketing Certificate (C25120) Fall - 1 st year BUS 110 Intro to Business 3 0 0 3 MKT 123 Fundamentals of Selling 3 0 0 3 Total 6 0 0 6 Spring - 1 st year MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 Total 6 0 0 6
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION Marketing Certificate Program (C2512005) MAJOR COURSES: SHC BUS 110 Introduction to Business 3 MKT 120 Principles of Marketing 3 MKT 123 Fundamentals of Selling 3 MKT 220 Advertising & Promotion 3 Total Credit Hours Required 12 Business Administration - Marketing Certificate (C25120) Fall - 1 st year BUS 110 Intro to Business 3 0 0 3 MKT 123 Fundamentals of Selling 3 0 0 3 Total 6 0 0 6 Spring - 1 st year MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 Total 6 0 0 6
Total	Spring - 1st year MKT 120 Prin of Marketing 3 0 0 3 MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6 Grand Total 12 0 0 12 BUSINESS ADMINISTRATION Marketing Certificate Program (C2512005) MAJOR COURSES: SHC BUS 110 Introduction to Business 3 MKT 120 Principles of Marketing 3 MKT 123 Fundamentals of Selling 3 MKT 220 Advertising & Promotion 3 Total Credit Hours Required 12 Business Administration - Marketing Certificate (C25120) Fall - 1 st year BUS 110 Intro to Business 3 0 0 3 MKT 123 Fundamentals of Selling 3 0 0 3 Total 6 0 0 6 Spring - 1 st year MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3 Total 6 0 0 6

CVCC 2013-2014 College Catalog

COMPUTER ENGINEERING TECHNOLOGY **A.A.S. Program (A40160)**

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. Minimum time for completion: five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum.

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 syst ems, 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.

GENERA	AL EDUCATION COURSES:S	НС
English/Co	mmunications:	
ENG 111	Expository Writing	3
ENG 114	Prof Research & Reporting	3
OR		
ENG 112	Argument-Based Research	3
OR		
ENG 113	Literature-Based Research	3
Humanities	/Fine Arts:	
Elective		3
	ences/Mathematics:	
	Algebra/Trigonometry I	3
	avioral Sciences:	
Elective		3
MAJOR C	OURSES:	
CET 111	Computer Upgrade/Repair I	3
CIS 110		
CSC 134	C++ Programming.	3
DFT 117	Technical Drafting	2
EGR 110	Intro to Engineering Tech	2
ELC 138	DC Circuit Analysis	3
ELC 139	AC Circuit Analysis	3
ELC 229	Applications Project	2
ELN 131	Semiconductor Applications	4
ELN 132	Linear IC Applications	4
ELN 133	Digital Electronics	4
ELN 233	Microprocessor Systems	4
MAT 122	8 8	
NET 125		
PHY 131)	
CET Electiv		6
	ts are required to take a minimum of 6 SHC from the following:	
CET		
CSC		
CSC		
CTS	F	
NOS		
NOS		
PHY		
WEE	3 110 Internet/Web Fundamentals	3

Co-op Option: Qualified students may elect to take 2 credit hours of cooperative education in place of ELC 229.

Physics Note: Students planning to transfer to a 4-year college should consider taking PHY 131 & PHY 133. Please see your advisor.

DEVELOPMENTAL COURSE REQUIREMENTS*					
CTS	080	Computing Fundamentals	3		
ENG	090	Composition Strategies	3		
MAT	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050	5		
RED	090	Improved College Reading	4		

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

(Computer Engineering Te Suggested Program	chnology • A Sequence Day	4016	50	kExp	
Fall - 1st ye	ear		Class	Lab	Clin/WkExp	Credit
CIS 110 CSC 134 DFT 117 EGR 110 ELC 138 MAT 121	Introduction to Computers C++ Programming Technical Drafting Intro to Engineering Techn DC Circuit Analysis Algebra/Trigonometry I	ology	2 1 1 2 2	2 3 2 2 3 2	0 0 0 0 0	3 3 2 2 3 3
G : 1 .		Total	10	14	0	16
Spring - 1st ELC 139 ELN 131 ENG 111 MAT 122 NET 125	AC Circuit Analysis Semiconductor Application	ns	2 3 3 2 1	3 0 2 4	0 0 0 0	3 4 3 3 3
		Total	11	12	0	16
OR ENC	st year Prof. Research and Reporti 112 Argument-Based Resea 113 Literature-Based Res 11ies/Fine Arts Elective	rch	3 3 3	0 0 0 0	0 0 0 0	3 3 3 3
F.11. 2. 1		Total	6	0	0	6
Fall - 2nd y CET 111 ELN 132 ELN 133 PHY 131		I	2 3 3 3	3 3 2	$\begin{matrix} 0 \\ 0 \\ 0 \\ 0 \end{matrix}$	3 4 4 4
Garaina 200	1	Total	11	11	0	15
ELN 233 CET E CET E	d year Applications Project Microprocessor Systems Elective Elective /Behavioral Science Electiv	e	1 3 2 2 3	3 3 3 0	0 0 0 0	2 4 3 3/4 3
		Total	11	12	0	15/16
		Grand Total	49	49	0	68/69

Computer Engineering Technology • A40160 $_{\gtrapprox}$ **Suggested Program Evening Sequence** Clin/WkEx Fall - 1st year 2 0 2 EGR 110 Intro to Engineering Technology ELC 138 DC Circuit Analysis 0 4 3 MAT 121 Algebra/Trigonometry I 0 Total 7 0 9 Spring - 1st year ELC 139 AC Circuit Analysis 0 4 3 MAT 122 Algebra/Trigonometry II 2 0 3 Total 5 0 7 Summer - 1st year ENG 111 Expository Writing 0 0 3 Social/Behavioral Science Elective 0 0 3 0 6 Total 0 Fall - 2nd year DFT 117 Technical Drafting 0 2 3 ELN 131 Semiconductor Applications 0 4 5 Total 0 6 Spring - 2nd year ELN 132 Linear IC Applications 0 4 ELN 133 Digital Electronics 3 3 4 0 Total 6 6 0 8 Summer - 2nd year 2 3 CIS 110 Introduction to Computers 0 ENG 114 Prof Research & Reporting (Preferred) 0 0 3 ENG 112 Argument-Based Research 3 0 3 OR 0 3 ENG 113 Literature-Based Research 0 0 3 Humanities/Fine Arts Elective 0 3 0 9 Total 2 0 Fall - 3rd year CET 111 Computer Upgrade/Repair I 3 0 3 CSC 134 C++ Programming 3 0 Total 6 0 6 Spring - 3rd year ELN 233 Microprocessor Systems 3 0 4 NET 125 Networking Basics 3 0 Total 7 0 7 Fall - 4th year PHY 131 Physics-Mechanics 2 0 4 **CET Elective** 3 0 3/4 Total 5 7/8 Spring - 4th year ELC 229 Applications Project 3 0 2 CET Elective 3/4 0 Total 3 0 5/6

COMPUTER INFORMATION TECHNOLOGY

A.A.S. Program (A25260)

Courses required to meet graduation requirements in this curriculum are offered during the day and online. The core courses are offered mostly online. Minimum time for completion: Day -- five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum. 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.

l	I . I .				
			ımııni	OUCATION COURSES:	
l	ENG	111	Expo	ository Writing	3
	ENG	114 OR	Prof	Research & Reporting	3
	ENG		Lite	rature-Based Research	3
	Electi		rine F	A11S.	3
l				Mathematics:	_
l	MAT	140	Surv	rey of Mathematicsrey of Mathematics Lab	3
l				Sciences:	1
	Electi	ve			3
	MAI	OR CO	TIDS	SES.	
l	CIS	110		oduction to Computers	3
l	CIS	115		o to Prog & Logic	
l	COE		Co-o	op Work Experience	2
l	CTS	115	Info	Sys Business Concept	3
l	CTS	120	Hard	lware/Software Support	3
l	CTS	130		adsheet	
l	CTS	285		ems Analysis & Design	
l	CTS	289	Syste	em Support Project	3
l	DBA	110	Data	base Concepts	3
l	DBA	115	Data	base Applications	3
l	DBA	120	Data	base Programming I	3
l	NET	125	Netw	vorking Basics	3
l	NOS	110		rating System Concepts	
l	NOS	130	Wind	dows Single User	3
l	NOS	230	Wind	dows Admin I	3
l	SEC	110		rrity Concepts	
l	Progra	ammın	g Elec	ctive	3
l				nust select one course from the following:	
l		CSC		C++ Programming3	
l		CSC		Visual BASIC Prog3	
l	Progra	am Ele			3
l		CET	XXX	C Co-op Work Experience	
l				Network Design & Imp	
l		CIS CSC	234	Adv C++ Programming 3	
l		CSC		Adv Visual BASIC Prog	
l		DBA		Oracle DB Programming I3	
l		NET		Routing Basics	
l		NET		Wireless Technology3	
l		NOS		Linux/UNIX Single User3	
l		NOS		Windows Admin II	
l		NOS		Operating Sytem - AS/4003	
l		SEC SEC		Secure Communications	
1	Co-or	Optio	on: Q	Qualified students may elect to take up to 3 additional credit ho	urs
	of coo	perativ	ve edu	acation in place of 3 hours program electives.	
	Total	Credi	it Ho	urs Required	69
			MEN	TAL COURSE REQUIREMENTS*	
	CTS	080		puting Fundamentals	
	ENG	090	Com	position Strategies	3
	MAAT	DMA	0.10	DMA 020 DMA 020 DMA 040 DMA 050	

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

MAT DMA 010, DMA 020, DMA 030, DMA 040, DMA 0505

090 Improved College Reading.....

Computer Information Technology Program Elective Pick List:CIS 277, CSC 234, CSC 239, DBA 220, NET 126, NOS 120, NOS 231, NOS 244, SEC 150, SEC 160, NET 175.

6

51 49 0 70/71

Grand Total

Computer Information Technology • Suggested Program Sequence D	A25260 EXECUTED BY SET
Fall - 1st year CIS 110 Introduction to Computers CIS 115 Intro to Prog. & Logic DBA 110 Database Concepts NOS 110 Operating System Concepts Total	A25260 EXAMPLE A25260 PART A SECULO A SECUE A SECULO A SE
Spring - 1st year CSC 139/134 Visual Basic OR C++ Programming DBA 115 Database Applications CTS 120 Hardware/Software Support COE XXX Co-op Work Experience NOS 130 Windows Single User Total Summer - 1st year	B 2 3 0 3 2 2 0 3 2 3 0 3 0 0 20 2 2 2 0 3 8 10 20 14
ENG 111 Expository Writing MAT 140 Survey of Math MAT 140A Survey of Math Lab Social/Behavioral Science Elective Total	3 0 0 3 3 0 0 3 0 2 0 1 3 0 0 3 9 2 0 10
Fall - 2nd year CTS 130 Spreadsheet CTS 285 Systems Analysis & Design DBA 120 Database Programming I NET 125 Networking Basics NOS 230 Windows Admin I SEC 110 Security Concepts Total Spring - 2nd year	2 2 0 3 3 0 0 3 2 2 0 3 1 4 0 3 2 2 0 3 2 2 0 3 12 12 0 18
CTS 115 Info Sys Business Concepts CTS 289 System Support Project ENG 114 Prof Research & Reporting OR ENG 113 Literature-Based Research Humanities/Fine Arts Elective Program Elective Total Grand Total	3 0 0 3 1 4 0 3 3 0 0 3 3 0 0 3 3 0 0 3 3 0 0 3 10 6 0 15 1 50 41 20 69
Computer Information Technology • Suggested Program Sequence Evo	A25260
Fall - 1st year CIS 110 Introduction to Computers SEC 110 Security Concepts	2 2 0 3 2 2 0 3
Spring - 1st year CTS 115 Info Sys Business Concepts CSC 139/134 Visual Basic OR C++Programming NOS 110 Operating Systems Concepts Total	4 4 0 6 3 0 0 3 2 3 0 3 2 3 0 3 7 6 0 9
Summer - 1st year ENG 111 Expository Writing MAT 140 Survey of Math MAT 140A Survey of Math Lab Total	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Fall - 2nd year CIS 115 Intro to Programming & Logic CTS 130 Spreadsheet DBA 110 Database Concepts NET 125 Networking Basics Total	2 3 0 3 2 2 0 3 2 3 0 3 1 4 0 3 7 12 0 12
Spring - 2nd year DBA 115 Advance Database NOS 130 Windows Single User Total	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Summer - 2nd year ENG 114 Prof Research & Reporting OR ENG 133 Literature-Based Researc COE XXX Co-op Work Experience Social/Behavioral Science Elective	3 0 0 3
Fall - 3rd year	6 0 208
CTS 285 Systems Analysis & Design DBA 120 Database Programming I NOS 230 Windows Admin I Total	3 0 0 3 2 2 0 3 2 2 0 3 7 4 0 9
Spring - 3rd year CTS 289 System Support Project CTS 120 Hardware/Software Support	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Total Summer - 3rd year	3 7 0 6
Program Elective Humanities/Fine Arts Elective Total Grand Total	3 0 0 3 3 0 0 3 3 0 0 6 1 51 41 20 69

COMPUTER INFORMATION TECHNOLOGY Certificate Program (C25260)

MAJO	OR C	OURSES:	.SHC
CIS	110	Introduction to Computers	3
CTS	115	Info Sys Business Concept	3
CTS	130	Spreadsheet	3
DBA	110	Database Concepts	3
DBA	115	Database Applications	3
		lit Hours Required	18
CTS	080	Computing Fundamentals	

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Computer Information Technology (C25260) Certificate Suggested Sequence

Fall - 1st year CIS 110 Introduction to Computers CTS 130 Spreadsheet DBA 110 Database Concepts Total	2 2 2 6	2 2 3 7	0 0 0 0	3 3 9
Spring 1st year DBA 115 Database Applications CTS 115 Info Sys Business Concept Total	2 2 4	2 3 5	0 0 0	3 3 6
Grand Total	10	12	0	15

COMPUTER INFORMATION TECHNOLOGY Database Certificate (C2526001) Suggested Sequence

MAJO	OR CC	OURSES:	łС		
DBA	110	Database Concepts & Apps	3		
		Advance Database			
DBA	120	Database Programming I	3		
DBA	220	Oracle DB Programming II	3		
Total Credit Hours Required12					

Computer Information Technology-Database Certificate (C2526001) Suggested Sequence

Fall - 1st year	ar Database Concepts		2	3	0	3
	•	Total	2	3	ŏ	3
	year Database Applications	Total	2	2	0	3
	ear Database Programming I	Total	2	2 2	0	3
Spring - 2nd DBA 220	year Oracle DB Programming I	I Total	2	3	0	3
		Grand Total	8	10	0	12

COMPUTER-INTEGRATED MACHINING TECHNOLOGY A.A.S. Program (A50210)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. The The Associate in Applied Science Degree is awarded graduates of this curriculum. The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product. Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining. Graduates should qualify for employment as machining technicians in hightech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

GENE	CRAL E	DUCATION COURSES: SHO	7
English	/Commu	nications:	
ENG	111	Exxpository Writing	3
ENG	114	Prof Research & Reporting	
OR			_
OR		Argument-Based Research	
ENG	113	Literature-Based Research	3
Human	ities/Fine	Arts:	
Elective	e		3
Natural	Sciences	s/Mathematics:	
MAT	121	Algebra/Trigonometry I	3
Social /	Behavior	ral Sciences:	
Elective			3
	r COUR		
CIS	111	Basic PC Literacy	2
CIS	OR	Dasic FC Literacy	_
CIS	110	Intro to Computers	3
MAC	122	CNC Turning	
MAC	124	CNC Milling	
MAC	131	Blueprint Reading/Mach I	2
MAC	132	Blueprint Reading/Mach II	2
MAC	141	Machining Applications I	4
MAC	142	Machining Applications II	4
MAC	143	Machining Appl III	4
MAC	151	Machining Calculations I	2
MAC	222	Adv. CNC Turning	
MAC	224	Adv. CVC Milling	
MAC MAC	231 232	CAM: CNC Turning	
MAC	232	CAM: CNC Milling	5
MAC	234	Adv Multi-Axis Machin	3
MAC	241	Jigs and Fixtures I	4
MAC	242	Jigs & Fixtures II	
MEC	110	Intro to CAD/CAM	
MEC	142	Physical Metallurgy	

Co-op Option: Qualified students may elect to take 4 credit hours of cooperative education in place of MAC 242 or MEC 142.

Total Credit Hours Required70/71	Total	al Credit Hours	Required)/71
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DEVELOPMENTAL COURSE REQUIREMENTS*

CTS	080 Computing Funamentals	3
ENG	090 Compositions Strategies	3
MAT	DMA 010, DMA 020, DMA 030, DMA 040, DMA 0	505
RED	090 Improved College Reading	4
400 1		

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Computer-Integrated Machining Technology - A50210								
	Suggested Program Sequence Day	7		хb				
				Clin/WkExp				
T 11 1 .		Class	Lab	/uil	Credit			
Fall - 1st ye								
MAC 131	Blueprint Reading/Mach. I	1	2	0	2			
MAC 141	Machining Applications I (1st 8 Wks)	2	6	0	4			
MAC 142	Machining Application II (2nd 8 Wks)		6	0	4			
MAC 151	Machining Calculations I	1	2	0	2			
CIS 111	Basic PC Literacy	1	2	0	2			
OR	CIS 110 Intro to Computers	2	2	0	3			
	Total	8	20	0	14/15			
Spring - 1s								
MAC 122	CNC Turning (1st 4 Wks)	1	3	0	2			
MAC 222	Adv. CNC Turning (2nd 4 Wks)	1	3	0	2			
MAC 132	Bluepring Reading Mach. II	1	2	0	2			
MAC 124	CNC Milling (3rd 4 Wks)	1	3	0	2			
MAC 224	Adv. CNC Milling (4th 4 Wks)	1	3	0	2			
MAT 121	Algebra/Trigonometry I	2	2	0	3			
	Total	7	16	0	13			
Summer - 1	st year							
ENG 111	Expository Writing	3	0	0	3			
MEC 110	Intro to CAD/CAM	1	2	0	2			
MAC 143	Machining Applications III	2	6	0	4			
	Total	6	8	0	9			
Fall - 2nd y	rear							
MAC 231	CAM:CNC Turning	1	4	0	3			
MAC 232	CAM:CNC Milling	1	4	0	3			
MAC 241	Jigs and Fixtures I	2	6	0	4			
Hum	anities/Fine Arts Elective	3	0	0	3			
	Total	7	14	0	13			
Spring - 2n	d year							
MAC 234	Adv Multi-Axis Machining	2	3	0	3			
MAC 242	Jigs and Fixtures II	1	9	0	4			
MEC 142	Physical Metallurgy	1	2	0	2			
Soci	al/Behavioral Science Elective	3	0	0	3			
	Total	7	14	0	12			

Summer - 2nd year

ENG 114 Literature-Based Research (Preferred)

MAC 233 Appl in CNC Machining

OR ENG 112 Prof Research & Reporting

OR ENG 113 Argument-Based Research

Total

3 0

3 0

Grand Total 40 84 20 70/71

3 0 0 3

2 12 0 6 7 4 0 9

0 3

0 3

Computer-Integrated Machining Technology Diploma (D50210)

GENI	ERAL EI	DUCATION COURSES:	SHC
English	h/Commur	nications:	
ENG	111	Exxpository Writing	3
Natura	l Sciences	/Mathematics:	
MAT	121	Algebra/Trigonometry I	3
MAJO	R COUR	SES:	
CIS	111 OR	Basic PC Literacy	2
CIS	110	Intro to Computers	
MAC	122	CNC Turning	2
MAC	124	CNC Milling	
MAC	131	Blueprint Reading/Mach I	2
MAC	132	Blueprint Reading/Mach II	2
MAC	141	Machining Applications I	4
MAC	142	Machining Applications II	4
MAC	151	Machining Calculations I	
MAC	222	Adv. CNC Turning	
MAC	224	Adv. CVC Milling	2
MEC	110	Intro to CAD/CAM	2
*CIM/	Coop Prog	gramElective	6
(COÉ XX		
	MAC 231	CAM: CNC Turning	
	MAC 232		
	MAC 241		
	MEC 142	Physical Metallurgy	
-	0 "	0 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Co-op Option: Qualified students may elect to take 4 credit hours of cooperative education in place of Programming electives.

		-	
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*	
CTS	080		3
ENG	090	Composition Strategies	3
MAT	DMA	A 010, DMA 020, DMA 030, DMA 040, DMA 050	5
RED	090	Improved College Reading	4

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Computer-Integrated Machining Technology - Diploma • D50210 Suggested Program Sequence Day

	Suggested Program Sequence <u>D</u>	<u>ay</u>		Exp	
Fall - 1st year		Class	Lab	Clin/WkExp	Credit
CIS 111 OR	Basic PC Literacy	1	2	0	2
CIS 110 MAC 131 MAC 141 MAC 142 MAC 151	Intro to Computers Blueprint Reading/Mach I Machining Applications I Machining Applications II Machining Calculations I m Elective	2 1 2 2 1 3	2 6 6 2 0	0 0 0 0 0	3 2 4 4 2 3
	Total	10	18	0	17/18
Spring - 1st ye MAC 122 MAC 222 MAC 132 MAC 124 MAC 224 MAT 121 Program	CNC Turning (1st 4 Wks) Adv. CNC Turning (2nd 4 Wks) Blueprint Reading/Mach II CNC Milling (3rd 4 Wks) Adv. CNC Milling (4th 4 Wks) Algebra/Trigonometry I m Elective	1 1 1 1 1 2 3	3 2 3 3 2 0	0 0 0 0 0 0	2 2 2 2 2 2 3 3
	Total	10	16	0	16
Summer - 1st ENG 111 MEC 110	year Expository Writing Intro to CAD/CAM	3	0	0	3 2
	Total	4	2	0	5
	Grand Total	24	36	0	38/39

Computer-Integrated Machining Technology - Diploma • D50210

Fall 1st year	Suggested Program Se	equence <u>Eve</u>	ening			
Fall - 1st year MAC 131 MAC 141 MAC 151 CIS 111 OR	Blueprint Reading/Mac Machining Applications Machining Calculations Basic PC Literacy	h I s I s I	1 2 1 1	2 6 2 2	$\begin{matrix} 0 \\ 0 \\ 0 \\ 0 \end{matrix}$	2 4 2 2
CIS 110	Intro to Computers		2	2	0	3
Coming 1 at vis	20#	Total	5/6	12	0	10/11
Spring - 1st ye MAC 132 MAC 142 MEC 110	Blueprint Reading/Mac Machining Applications Intro to CAD/CAM	h II s II	1 2 1	2 6 2	0 0 0	2 4 2
Fall - 2nd year	r	Total	4	10	0	8
MAC 122 MAC 124	CNC Turning CNC Milling	r	1 1 2	3	0	
MAT 121 Program	Algebra/Trigonometry I m Elective	L	2 3	2	0	3
J		Total	7	8	0	10
Spring - 2nd y MAC 222 MAC 224 Program	rear Adv. CNC Turning Adv. CNC Milling m Elective		1 1 3	3 3 0	0 0 0	2 2 3
		Total	5	6	0	7
Summer - 2nd ENG 111	year Expository Writing		3	0	0	3
		Total	3	0	0	3
	Gra	and Total	24/25	36	0	38/39

Computer-Integrated Machining Technology Cert. Prog. (C50210) MAJOR COURSES:

MA	АC	122	CNC Turning	. 2
MA	ΑC	124	CNC Milling	. 2
MA	AC.	131	Blueprint Reading/Mach I	. 2
MA	ΑC	141	Machining Applications I	. 4
MA	ΑC	151	Machining Calculations I	. 2
ME	EC	110	Intro to CAD/CAM	. 2
Tot	tal C	redit Ho	ours Required1	14
			ours Required	14
	VEL	OPMEN	•	
DE	VEL S	OPMEN 080	ITAL COURSE REQUIREMENTS*	.3

Intro to College Reading. *Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Computer-Integrated Machining Technology Certificate - Suggest Program Sequence Day (C30210)

raii - 18	st year						
MAC	122	CNC Turning		1	3	0	2
MAC	124	CNC Milling		1	3	0	2
MAC	131	Blueprint Reading/Mach I		1	2	0	2
MAC	141	Machining Applications I		2	6	0	4
MAC	151	Machining Calculations I		1	2	0	2
MEC	110	Intro to CAD/CAM		1	2	0	2
			Grand Total	7	18	0	14

Computer-Integrated Machining Technology Certificate - Suggest Program Sequence Evening (C50210)

ran - 18	t year						
MAC	131	Blueprint Reading/Mach I		1	2	0	2
MAC	141	Machining Applications I		2	6	0	4
MAC	151	Machining Calculations I		1	2	0	2
			Total	4	10	0	8
Spring -	1st year						
MEC	110	Intro to CAD/CAM		1	2	0	2
MAC	122	CNC Turning		1	3	0	2
MAC	124	CNC Milling		1	3	0	2
			Total	3	8	0	6
		Grand	d Total	7	18	0	14

RED 080

COMPUTER PROGRAMMING A.A.S. Program (A25130)

Courses required to meet graduation requirements in this curriculum are offered during the day and online. The core courses are offered mostly online. Minimum time for completion: Day -- five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum. The Computer Programming curriculum prepares individuals for employment as computer programmers and related positions through study and applications in computer concepts, logic, programming procedures, languages, generators, operating systems, networking, data management, and business operations. Students will solve business computer problems through programming techniques and procedures, using appropriate languages and software. The primary emphasis of the curriculum is hands-on training in programming and related computer areas that provide the ability to adapt as systems evolve. Graduates should qualify for employment in business, industry, and government organizations as programmers, programmer trainees, programmer/analysts, computer operators, systems technicians, or database specialists.

GENERAL E	DUCATION COURSES:	SHC
English/Commu		
ENG 111	Expository Writing	3
ENG 114 OR	Prof Research & Reporting	
ENG 113	Literature-Based Research.	3
Humanities/Fine	e Arts:	3
Natural Sciences		
MAT 140	Survey of Mathematics	3
MAT 140A	Survey of Mathematics Lab.	
Social/Behaviora	al Sciences:	
Elective		3
MAJOR COUR		
CIS 110	Introduction to Computers	
CIS 115	Intro to Prog & Logic	3
CSC 138	RPG Programming	
CSC 139 CSC 141	Visual BASIC Prog Visual C++ Prog	
CSC 238	Adv RPG Programming	
CSC 239	Adv Visual BASIC Prog.	
CSC 289	Programming Capstone Project	
CTS 115	Info Sys Business Concept	
CTS 130	Spreadsheet	
CTS 285	Systems Analysis & Design	
DBA 110	Database Concepts	3
NET 125	Networking Basics	
NOS 110	Operating System Concepts	
NOS 244	Operating System - AS/400	
SEC 110	Security Concepts	
	lective	3
	nust select 3 SHC from the following courses:	2
CSC 15 DBA 11:		
DBA 11.		3
SGD 11	1 Introduction to SGD	3
SGD 112		
SGD 114	4 3D Modeling	3
Programming El	lective or Co-op	1-3
	are required to take one (1) course from the following:	
COE XX		1-3
CSC 15 DBA 11:		
DBA 11.	0 Database Programming	3
SGD 11	1 Introduction to SGD	3
SGD 112		
SGD 114		
education in pl	: Qualified students may elect to take 1-3 credit hours of colace of Programming elective. JIRED COURSES:	
	College Student Success	
	Tours Required	69-71
DEVELOPME	NTAL COURSE REQUIREMENTS*	
CTS 080	Computing Fundamentals	3
ENG 090	Composition Strategies	
MAT DMA 0	10, DMA 020, DMA 030, DMA 040, DMA 050	
RED 090	Improved College Reading	4
· Developmenta	al coursework (including all prerequisites) will be req	unea or

ACA 111 College Student Success
Total Credit Hours Required69-7
DEVELOPMENTAL COURSE REQUIREMENTS*
CTS 080 Computing Fundamentals 3
ENG 090 Composition Strategies 3
MAT DMA 010, DMA 020, DMA 030, DMA 040, DMA 0505
RED 090 Improved College Reading
*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.
CVCC 2013-2014 College Catalog

Computer Programming • A2			dx	
Fall - 1st year ACA 111 College Student Success CIS 110 Introduction to Computers CIS 115 Intro to Prog & Logic DBA 110 Database Concepts & Apps NET 125 Networking Basics	1 2 2 2 1	0 2 3 3 4	0 0 0 0 Clin/WkExp	1 Credit
Spring - 1st year CSC 141 Visual C++ Prog CTS 115 Info Sys Business Concepts NOS 110 Operating Systems Concepts NOS 244 Operating Systems - AS400 Program Elective Total	8 2 3 2 2 2 3 12	3 0 3 2 0 8	0 0 0 0 0 0	13 3 3 3 3 3 15
Summer - 1st year ENG 111 Expository Writing MAT 140 Survey of Math MAT 140A Survey of Math Lab Humanities/Fine Arts Elective Total	3 3 0 3 9	0 0 2 0 2	0 0 0 0	3 3 1 3 10
Fall - 2nd year CTS 130 Spreadsheet CTS 285 Systems Analysis & Design CSC 138 RPG Programming CSC 139 Visual Basic Programming SEC 110 Security Concepts	2 3 2 2 2	2 0 3 3 2	0 0 0 0 0	3 3 3 3 3
Spring - 2nd year ENG 114 Prof Research & Reporting OR ENG 113 Literature-Based Research CSC 289 Programming Capstone Project CSC 238 Adv RPG Programming CSC 239 Adv Visual Basic Programming Social/Behavioral Science Elective Co-op or Program Elective Total Grand Total	11 3 3 1 2 2 3 0 11 51	7 0 0 4 3 3 0 0 10 42	0 0 0 0 0 0 0 0	3 3 3 3 3 1/3 16/18 69/71
COMPUTER PROGRAMMING - Cert MAJOR COURSES:				SHC 3 3
Total Credit Hours Required	o50 vill be re	equire	ed of	5 f student

of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Computer Programming - Cert. Suggested Sequence (C25130)

CIS 115	Intro to Prog & Logic	2	3	0	3
	Total	2	3	0	3
Spring - 1s	t year				
CSC 139	Visual BASIC Programming	2	3	0	3
CSC 141	Visual C++ Programming	2	3	0	3
	Total	4	6	0	6
Spring - 2n	d year				
CSC 239	Adv Visual BASIC Programming	2	3	0	3
	Total	2	3	0	3
	Grand Total	8	12	0	12

Fall - 1st year

COSMETOLOGY Diploma Program (D55140)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. All courses, state hours, and state projects must be completed before graduation. Minimum time for completion: four semesters full-time attendance; nine semesters part-time attendance. The Diploma is awarded graduates of this curriculum.

The Cosmetology curriculum is designed to provide comptencybased knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills. Course work includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multi-cultural practices, business/computer principles, product knowledge, and other selected topics. Graduates should qualify to sit for the State Board of Cosmetic Arts examination. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in beauty salons, spas, nail salons, and related businesses. General Education Courses, including above developmental courses, English, Psychology, and Computer Literacy will be taught on the CVCC campus. Instruction and course materials are available in Spanish.

GENE	RAL EI	DUCATION COURSES: SHC				
English	/Commur					
ENG	102	Applied Communications II				
		l Sciences:				
PSY	150	General Psychology3				
MAJO	R COUR					
COS OR	111	Cosmetology Concepts I				
COS	111AB 111BB	Cosmetology Concepts I-AB				
COS OR	112	Salon I				
COS	112AB 112BB	Salon I-AB 4 Salon I-BB 4				
COS OR	113	Cosmetology Concepts II4				
COS	113AB 113BB	Cosmetology Concepts II-AB				
COS	114	Salon II				
COS COS	114AB 114BB	Salon II-AB 4 Salon II-BB 4				
COS	115	Cosmetology Concepts III4				
OR COS COS	115AB 115BB	Cosmetology Concepts III-AB				
COS	116	Salon III4				
COS	116AB 116BB	Salon III-AB 2 Salon III-BB 2				
COS OR	117	Cosmetology Concepts IV2				
COS COS	117AB 117BB	Cosmetology Concepts IV-AB				
COS OR	118	Salon IV7				
COS	118AB 118BB	Salon IV-AB 4 Salon IV-BB 3				
Total (Total Credit Hours Required47					

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Improved College Reading......4

DEVELOPMENTAL COURSE REQUIREMENTS*

Cosmetology - Diploma • D55140 Suggested Program Sequence Day								
			Class	Lab	M/mi	Credit		
Fall - 1st year COS 111 Cosmo COS 112 Salon	etology Concepts I		5 4 0	0 24	0 0 0	び 4 8		
		Total	5	24	0	12		
COS 114 Salon	etology Concepts II II ed Communication I		4 0 3	0 24 0	0 0 0	4 8 3		
		Total	7	24	0	15		
Summer - 1st year COS 115 Cosmo COS 116 Salon	etology Concepts III		4 0	0 12	0	4 4		
Eall 2nd year		Total	4	12	0	8		
COS 118 Salon	etology Concepts IV IV al Psychology		2 0 3	0 21 0	0 0 0	2 7 3		
		Total Grand Total	5 21	21 81	0	12 47		
		Grand Total	21	01	U	4/		
	etology - Diploma/l ggested Program S			140				
Fall - 1st year COS 111AB	Cosmetology Con	-	2	0	0	2		
COS 112AB	Salon I-AB	oopts 1 11B	0	12	ŏ	4		
Spring - 1st year		Total	2	12	0	6		
COS 111BB COS 112BB ENG 102	Cosmetology Con Salon I-BB Applied Commun	-	2 0 3	0 12 0	0 0 0	2 4 3		
		Total	5	12	0	9		
Summer - 1st year PSY 150	General Psycholog	gy	3	0	0	3		
E 11 2 1		Total	3	0	0	3		
Fall - 2nd year COS 113AB COS 114AB	Cosmetology Con Salon II-AB	cepts II-AB	2	0 12	0	2 4		
Spring - 2nd year		Total	2	12	0	6		
COS 113BB COS 114BB	Cosmetology Con Salon II-BB	cepts II-BB	2	0 12	0	2 4		
Fall - 3rd year		Total	3	12	0	6		
COS 115AB COS 116AB	Cosmetology Con Salon III-AB	cepts III-BB	2	0 6	0	2 2		
Spring - 3rd year		Total	2	6	0	4		
COS 115BB COS 116BB	Cosmetology Con Salon III-BB	cepts III-BB	2	0 6	0	2 2		
Fall - 4th year		Total	2	6	0	4		
COS 117ÁB COS 118AB	Cosmetology Con Salon IV-AB	cepts IV-AB	1	0 12	0	1 4		
Spring - 4th year		Total	1	12	0	5		
COS 117BB COS 118BB	Cosmetology Con Salon IV-BB	•	1 0	0 9	0	1 3		
		Total Grand Total	1	9	0	4		

Grand Total 21 81 0 47

RED 090

CRIMINAL JUSTICE TECHNOLOGY A.A.S. Program (A55180)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. Minimum time for completion: Day-five semesters full-time attendance; Evening--ten semesters part-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum.

The Criminal Justice Technology 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.

omeer,	unu i	ioss prevention specialist.	
		EDUCATION COURSES: nunications:	SHC
ENG	111	Expository Writing	3
ENG	113	Literature-Based Research	
OR			
	114	Prof Research & Reporting	3
Humanit	ies/Fii		
Elective			3
		es/Mathematics:	
	115	Mathematical Models	3
OR MAT	140 5	urvey of Mathematics	2
		Survey of Mathematics Lab	
		oral Sciences:	1
	enavic 150	General Psychology	2
гот	130	General Esychology	3
MAJOR	COU	JRSES:	
CCT	110	Intro to Cyber Crime	3
OR		,	
CIS	110	Introduction to Computers	
CJC	111	Intro to Criminal Justice	3
	112	Criminology	
	113	Juvenile Justice	
	121	Law Enforcement Operations	
	131	Criminal Law	
	132	Court Procedure & Evidence	
	141	Corrections	
	151	Intro to Loss Prevention	
	160	Terrorism: Underlying Issues	
	212	Ethics & Comm Relations	
	215	Organization & Administration	
	221	Investigative Principles.	
	225 231	Crisis Intervention	
	231	Constitutional Law	
		ive or Co-op	3
CCT		Ethics & High Technology	
CCT		Computer Crime Invest	
CIS CJC		Introduction to Computers	
CJC 2		Investigative Photography	
COE			
HIS		World Civilizations I	
HIS		World Civilizations II	
HIS		Western Civilization I	
HIS		Western Civilization II	
POL		American Government 3	
POL		State & Local Government 3	
PSY 2		Forensic Psychology	
PSY 2		Developmental Psych	
PSY 2		Abnormal Psychology	
SOC 2		Social Problems 3	
	-		

Criminal Justice Technology, Con't.

Co-op Option: Qualified students may elect to take 3 credit hours of cooperative education in place of 3 hours Program electives.

Credits applied for prior completion of B.L.E.T.

Total (Credit F	Hours Required	67-68
DEVE	LOPME	ENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
ENG	090	Composition Strategies	3
MAT	DMA (010, DMA 020, DMA 030, DMA 040, DMA 050	5
RED	090	Improved College Reading	4

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Criminal Justice Technology • A55180 Suggested Program Sequence Day						
Fall - 1st year	Class	Lab	Clin/WkExp	Credit		
CJC 111 Introduction to Criminal Justice CJC 131 Criminal Law CJC 132 Court Procedures & Evidence CJC 160 Terrorism: Underlying Issues ENG 111 Expository Writing	3 3 3 3 3	0 0 0 0	0 0 0 0	3 3 3 3		
Total	15	0	0	15		
Spring - 1st year CJC 112 Criminology CJC 121 Law Enforcement Operations CJC 221 Investigative Principles CCT 110 Intro to Cyber Crime OR CIS 110 Introduction to Computers	3 3 3 2	0 0 2 0 2	0 0 0 0	3 3 4 3 3		
Total	11/12	4	0	13		
Summer - 1st year ENG 113 Literature-Based Research OR ENG 114 Prof. Research & Reporting MAT 115 Mathematical Models OR MAT 140 Survey of Mathematics and MAT 140A Survey of Mathematics Lab PSY 150 General Psychology	3 3 2 3 0 3	0 0 2 0 2 0	0 0 0 0 0	3 3 3 1 3		
Total	8/9	2	0	9/10		
Fall - 2nd year CJC 113 Juvenile Justice CJC 215 Organization & Administration CJC 231 Constitutional Law SOC 210 Introduction to Sociology Humanities Elective	3 3 3 3 3	0 0 0 0 0	0 0 0 0	3 3 3 3 3		
Total	15	0	0	15		
Spring - 2nd year CJC 141 Corrections CJC 151 Introduction to Loss Prevention CJC 212 Ethics & Comm. Relations CJC 225 Crisis Intervention Program Elective OR Co-Op	3 3 3 3	0 0 0 0	0 0 0 0	3 3 3 3 3		
Total	15	0	0	15		
Grand Total	64/66	6	0	67/68		

Criminal Justice Technology • A55180 Suggested Prog Sequence Evening	Lab Clin/WkExp	•	Correctional Probation & Parole Certificate Prog (C5518002)
10	ь п/М]	Credit	MAJOR COURSES: SHC CJC 111 Intro to Criminal Justice 3
raii - 1st year		_	CJC 141 Corrections
CJC 131 Criminal Law 3	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	3	CJC 215 Organization & Administration
Total 9	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	_	Total Credit Hours Required15
Spring - 1st year CJC 121 Law Enforcement Operations 3	0 0		Correctional Probation & Parole Cert. Suggested Sequence (C5518002)
CCT 110 Intro to Cyber Crime 3	$\begin{array}{ccc} 0 & 0 \\ 2 & 0 \end{array}$		Fall - 1st year
Summer - 1st year Total 5/6	2 0	6	CJC 111 Intro to Criminal Justice 3 0 0 3 CJC 215 Organization & Administration 3 0 0 3 Total 6 0 0 6
MAT 115 Mathematical Models 2	$\begin{bmatrix} 2 & 0 \\ 0 & 0 \end{bmatrix}$	3	Spring - 2nd year CJC 141 Corrections 10tal 6 0 0 6
and MAT 140A Survey of Mathematics Lab 0		1	CJC 212 Ethics & Comm. Relations 3 0 0 3 CJC 225 Crisis Intervention 3 0 0 3
Total 5/6			Total 9 0 0 9
Fall - 2nd year CJC 113 Juvenile Justice 3 SOC 210 Introduction to Sociology 3	0 0		Grand Total 15 0 0 15
	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	-	
Spring - 2nd year CJC 141 Corrections 3	0 0		CRIMINAL JUSTICE TECHNOLOGY
CJC 212 Ethics & Comm. Relations 3	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	3	Judicial Court Administrator Certificate Prog (C5518004)
Total 9	0 0		MAJOR COURSES: SHC CJC 111 Intro to Criminal Justice 3
	0 0		CJC 131 Criminal Law 3 CJC 132 Court Procedure & Evidence 3
	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	_	CJC 215 Organization & Administration
Fall - 3rd year	0 0	-	Total Credit Hours Required
	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$		Judicial Court Administrator - Cert. Suggested Sequence (C5518004)
	0 0		Fall - 1st year
CJC 112 Criminology 3	$\begin{array}{ccc} 0 & 0 \\ 2 & 0 \end{array}$		CJC 111 Intro to Criminal Justice 3 0 0 3 CJC 131 Criminal Law 3 0 0 3
	2 0		CJC 131
Fall - 4th year CJC 215 Organization & Administration 3	0 0	3	Total 12 0 0 12 Spring - 1st year
CJC 231 Constitutional Law 3	0 0		CJC 225 Crisis Intervention 3 0 0 3
Spring - 4th year Total 6		6	Total 3 0 0 3 Grand Total 15 0 0 15
CJC 151 Introduction to Loss Prevention 3	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	3	Grand Iotal 15 0 0 15
	0 0	6	
Grand Total 64/66	6 0	67/68	CRIMINAL JUSTICE TECHNOLOGY
CRIMINAL JUSTICE TECHNOLOGY			Retail Industrial Security Certificate Prog (C5518003) MAJOR COURSES:
Law Enforcement Certificate Prog (C55180)		SHC	CJC 111 Intro to Criminal Justice 3 CJC 131 Criminal Law 3
MAJOR COURSES: CJC 111 Intro to Criminal Justice		3	CJC 151 Intro to Loss Prevention
CJC 121 Law Enforcement Operations. CJC 132 Court Procedure & Evidence. CJC 212 Ethics & Comm Relations.		3 3	CJC 221 Investigative Principles 4 Total Credit Hours Required 16
CJC 225 Crisis Intervention		3	Retail Industrial Security - Cert. Suggested Sequence (C551803)
Criminal Justice Technology			Fall - 1st year
Law Enforcement Cert. (C5518001) Suggested Se	equen	ice	CJC 111 Intro to Criminal Justice 3 0 0 3 CJC 131 Criminal Law 3 0 0 3
		3	CJC 215 Organization & Administration 3 0 0 3
CJC 132 Court Procedure & Evidence 3 Total 6		3 6	Spring - 1st year
Spring - 1st year	0 0		CJC 221 Investigative Principles 3 2 0 4 CJC 151 Intro to Loss Prevention 3 0 0 3
CJC 121 Law Enforcement Operations 3 CJC 212 Ethics & Comm. Relations 3 CJC 225 Crisis Intervention 3	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	3	Total 6 2 0 7
Total 9	0 0	9	Grand Total 15 2 0 16
Grand Total 15	0 0	15	

CRIMINAL JUSTICE TECHNOLOGY

CRIMINAL JUSTICE TECHNOLOGY **Latent Evidence Concentration** A.A.S. Program (A5518A)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. Minimum time for completion: Day--five semesters full-time attendance; Evening--ten semesters part-time attendance. The Associate in Applied Science Degree is awarded graduates of this cur-

Latent Evidence is a concentration under the curriculum of Criminal Justice Technology. This curriculum is designed to provide knowledge of latent evidence systems and operations. Study will focus on local, state, and federal law enforcement, evidence processing and procedures. Students will learn both theory and hands-on analysis of latent evidence. They will learn fingerprint classification, identification, and chemical development. Students will record, cast, and recognize footwear and tire-tracks; and process crime scenes. Issues and concepts of communications and the use of computers and computer assisted design programs in crime scene technology will be discussed. Graduates should qualify for employment in a variety of criminal justice organizations especially in local, state, and federal law enforcement, and correctional agencies.

_		DUCATION COURSES: SH nications:	C
ENG	111	Expository Writing	2
ENG	111		
OR	113	Literature-Based Research	
ENG	114	Prof Research & Reporting	3
Human	ities/Fine		
Electiv	e		3
Natura	Sciences	s/Mathematics:	
MAT	115	Mathematical Models	3
OR	1.40	Survey of Mathematics	2
MAT	140		
MAT Social/	140A	Survey of Mathematics Lab	1
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			2
PSY	150	General Psychology	3
MAJO	R COUF	RSES:	
CCT	110	Intro to Cyber Crime.	3
OR		mue to eject erme	
CIS	110	Introduction to Computers	3
CJC	111	Intro to Criminal Justice	
CJC	112	Criminology	
CJC	113	Juvenile Justice	
CJC	121	Law Enforcement Operations	
CJC	131	Criminal Law	
CJC	132	Court Procedure & Evidence	3
CJC	144	Crime Scene Processing	
CJC	146	Trace Evidence	3
CJC	212	Ethics & Comm Relations	3
CJC	221	Investigative Principles	4
CJC	222	Criminalistics	
CJC	231	Constitutional Law	3
CJC	245	Friction Ridge Analysis	
CJC	246	Adv Friction Ridge Analys	
CJC	250	Forensic Biology I	3
OR			
CJC	251	Forensic Chemistry I	4
PSY	231	Forensic Psychology	3
Crimin		Elective1-	4
	Student	s must choose one (1) of the following:	
	CJC 1	14 Investigative Photography	
	COE X	XX Co-Op Work Experience	
Total (Credit H	ours Required68-	71
DEVE	LOPME	NTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
ENG	090	Composition Strategies.	
MAT	DMA 0	10, DMA 020, DMA 030, DMA 040, DMA 050	
RED		Improved College Reading	

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Improved College Reading....

Criminal Justice Technology Latent Evidence Concentration • A5518A Suggested Program Sequence Day

	Suggested Program Sequence Day							
						Ex		
						Š	.=:	
				Class	Lab	Įį.	pe	
Fall - 1st ye	ear			_		Ü	Ü	
CJC 111	Introduction to Criminal J	ustice		3	0	0	3	
CJC 131	Criminal Law			3 3	0	0	3 3 3 3	
CJC 132 ENG 111	Court Procedures & Evide Expository Writing	ence		3	0	0	3	
LIVO III	Expository writing			5	U	U	3	
		Total		12	0	0	12	
Carrier 1 ar	4							
Spring - 1st CJC 112	Criminology			3	0	0	3	
CJC 112	Law Enforcement Operation	ons		3 3	0	ő	3 3 4	
CJC 221	Investigative Principles			3	2	0	4	
CCT 110	2			3 2	0	0	3	
OR C	IS 110 Introduction to Com	iputers		2	2	U	3	
		Total	11	/12	4	0	13	
Summer - 1	Ist year Literature-Based Research			3	0	0	2	
	NG 114 Prof. Research & F			3	0	0	3	
	Mathematical Models	reporting		3	0	Ŏ	3 3 3 1	
OR	MAT 140 Survey of Mathe			3	0	0	3	
and PSY 150	MAT 140A Survey of Mathe General Psychology	ematics Lab		0	2	0	3	
	nities/Fine Arts Elective			3	0	0	3	
		Total		12	2	0	12/13	
Fall - 2nd y	<i>rear</i>							
CJC 113	Juvenile Justice			3	0	0	3	
CJC 146	Trace Evidence			2	3	0	3 3 3	
CJC 231	Constitutional Law			3 2 3 2	0	0	3	
CJC 245	Friction Ridge Analysis nal Justice Elective			2	3	0	3 1/4	
Crimin	nai sustice Elective						1/ 寸	
		Total		10	6	0	13/16	
Spring - 2n	d year			2	0	0	2	
CJC 222 CJC 144	Criminalistics Crime Scene Processing			2	0	0	3	
CJC 212	Ethics & Comm. Relations	S		3	0	ő	3	
CJC 246	Advance Friction Ridge A			3 2 3 2 2 3	3 2 2	0	3 3 3 3 4	
CJC 250	Forensic Biology			2	2	0	3	
PSY 231	GIC 251 Forensic Chemistry Forensic Psychology			3	0	0	3	
-				_			-	
		Total	15/	16	10	0	18/19	
	Grand T	otal	60/	62	22	0	68/71	

Criminal Justice Technology Latent Evidence Concentration • A5518A

	Latent Evidence Concentration • A5518A							
	Suggested Program S	equence Even	ııng		Exi			
5 H 4			Class	Lab	Clin/WkExp	Credit		
Fall - 1st ye	ear Introduction to Criminal Ju	istice	_	0	0			
CJC 131 ENG 111			3 3 3	0	0	3 3 3		
		Total	9	0	0	9		
CCT 110	t year Law Enforcement Operation Intro to Cyber Crime IS 110 Introduction to Com		3 3 2	0 0 2	0 0 0	3 3 3		
		Total	5/6	2	0	6		
OR M	lst year Mathematical Models Mat 140 Survey of Mathema AT 140A Survey of Mather General Psychology		3 3 0 3	0 0 2 0	0 0 0 0	3 3 1 3		
		Total	6	2	0	6/7		
Fall - 2nd y CJC 113 CJC 146 Crimin			3 2	0 3	0	3 3 1/4		
		Total	5	3	0	7/10		
Spring - 2n CJC 144 CJC 212 PSY 231		S	2 3 3	3 0 0	0 0 0	3 3 3		
		Total	8	3	0	9		
OR E	2nd year Literature - Based Researc NG 114 Prof. Research & F nities/Fine Arts Elective	Reporting	3 3 3	0 0 0	0 0 0	3 3 3		
Fall - 3rd y	ear	Total	6	0	0	6		
CJC 132		nce	3	0	0	3		
G	1	Total	3	0	0	3		
Spring - 3rd CJC 221 CJC 112	Investigative Principles Criminology		3	2	0	4 3		
F 11 4.1		Total	6	2	0	7		
Fall - 4th y CJC 231 CJC 245	car Constitutional Law Friction Ridge Analysis		3 2	0	0	3		
Spring - 4tl	ı vear	Total	5	3	0	6		
CJC 222 CJC 246 CJC 250	Criminalistics Advance Friction Ridge A Forensic Biology JC 251 Forensic Chemistry		3 2 2 3	0 3 2 2	0 0 0 0	3 3 3 4		
		Total	7/8	5	0	9/10		

CRIMINAL JUSTICE TECHNOLOGY Latent Evidence Concentration Crime Scene Investigation Certificate Program (C5518A01)

MAJ(OR COU	JRSES:	SHC	
CJC	111	Intro to Criminal Justice	3	
CJC	114	Investigative Photography	2	
CJC	144	Crime Scene Processing		
CJC	146	Trace Evidence		
CJC	221	Investigative Principles	4	
Total Credit Hours Paguired				

CRIMINAL JUSTICE TECHNOLOGY Latent Evidence Concentration Crime Scene Investigation Cert. Prog. Suggested Sequence (C5518A01)

Fall - 1st ye	ear		Class	Lab	Clin/WkE	Credit
CJC 111	Introduction to Criminal J	ustice	3	0	0	3
CJC 146	Trace Evidence		2	3	0	3
CJC 114	Investigative Photography	7	1	2	0	2
Spring - 1st	t vear	Total	6	5	0	8
CJC 221	Investigative Principles		3	2	0	4
CJC 144	Crime Scene Processing		2	3	0	3
		Total	5	5	0	7
	Grai	nd Total	11	10	0	15

Grand Total 60/62 17 0 68/73

CYBER CRIME TECHNOLOGY A.A.S. Program (A55210)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. Minimum time for completion: Day--five semesters full-time attendance; Evening--ten semesters part-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum. This curriculum will prepare students to enter the field of computer crime investigations and private security. Students completing this curriculum will be capable of investigating computer crimes, properly seize and recover computer evidence and aid in the prosecution of cyber criminals. Course work in this curriculum will include a division of work in the disciplines of criminal justice and computer information systems. Additionally, students will be required to take specific cyber crime classes. Graduates should qualify to become computer crime investigators for local or state criminal justice agencies. Also, these graduates should be competent to serve as computer security specialists or consultants with private business.

CENT	J 1	DATE ATTION CONDERS
_		DUCATION COURSES: SHC
		nications:
ENG		Expository Writing
ENG	113	Literature-Based Research
OR	114	Des CD and the Description
	ities/Fine	
Electiv	-	3
		/Mathematics:
MAT	115	Mathematical Models
OR		
MAT	140	Survey of Mathematics
MAT	140A	Survey of Mathematics Lab
	Behaviora	al Sciences:
PSY	150	General Psychology3
MAJO	R COUR	RSES:
CCT	110	Intro to Cyber Crime
CCT	112	Ethics & High Technology
CCT	121	Computer Crime Invest4
CCT	231	Technology Crimes & Law
CCT	240	Data Recovery Techniques
CCT	250	Network Vulnerabilities I
CCT	285	Trends in Cyber Crime
CCT	289	Capstone Project
CIS	110	Introduction to Computers
CJC CJC	111 112	Intro to Criminal Justice
CJC	112	Criminology
CTS	120	Hardware/Software Support 3
NET	125	Networking Basics
NOS	110	Operating System Concepts
SEC	110	Security Concepts
~		· · · · · · · · · · · · · · · · · · ·
		ours Required64-65
DEVE	LOPME	NTAL COURSE REQUIREMENTS*
CTS	080	Computing Fundamentals
ENG	090	Composition Strategies
MAT	DMA 0	10, DMA 020, DMA 030, DMA 040, DMA 0505
RED	090	Improved College Reading4
		coursework (including all prerequisites) will be required of students
whose	placemen	t test scores indicate a need for greater proficiency in the areas of
reading	, English,	mathematics, and computers. Please refer to the Course Descriptions
section	tor prere	quisite course information.

CYBER CRIME TECHNOLOGY Cyber Crime & Computer Security Cert. Prog. (C5521001)

•	egicer erime et compater security certificies (ecc21001)					
MAJO	DR COU	URSES:	SHC			
CCT	110	Intro to Cyber Crime	3			
CCT	112	Ethics & High Technology				
CCT	121	Computer Crime Invest	4			
CCT	231	Technology Crimes & Law	3			
CCT	240	Data Recovery Techniques				
Total Credit Hours Required16						

Cyber Crime Technology
Cyber Crime & Computer Security(C5521001)Suggested Sequence

Fall -	Est year								
CCT	110	Intro to Cyber Crime	3	0	0	3			
CCT	112	Ethics & High Technology	3	0	0	3			
CCT	231	Technology Crimes & Law	3	0	0	3			
CCT	240	Data Recovery Techniques	3	0	0	3			
		Total	12	0	0	12			
Spring - 1st year									
CCT	121	Computer Crime Investigations	3		0	4			
		Total	3	2	0	4			
		Grand Total	15	2	0	16			

	Cyber Crime Techno Suggested Program	ology • A: Sequence	Day		Clin/WkExp	. : :
Fall - 1st y	ear		Class	Lab	Clin/	Credi
CJC 111 CJC 131	Introduction to Criminal Justic Criminal Law	ce		0	0	3 3 3
CCT 110	Introduction to Cyber Crime		3 3 3 3	0	0	3
CCT 112 CIS 110	Ethics & High Technology Introduction to Computers		2	0	0	3
Spring - 1s	at vear	Total	14	2	0	15
CJC 112 CCT 121	Criminology Computer Crime Investigation	na	3	0	0	3 4
NOS 110	Operating System Concepts	115	3 2	2	0	3
CTS 120 NET 125	Hardware/Software Support Networking Basics		2 1	3 4	0	3
Summer -	1st vear	Total	11	12	0	16
ENG 111 MAT 115	Expository Writing		3 2	0	0	3
OR M	Mathematical Models IAT 140 Survey of Mathematics		3	0	0	3
PSY 150	AT 140A Survey of Mathematic General Psychology	es Lab	0	2 0	0	1 3
Fall - 2nd	vear	Total	8/9	2	0	9/10
CCT 240 CCT 250	Data Recovery Techniques Networking Vulnerabilities I		2 2	3 2	0	3
CCT 231	Technology Crimes & Law		3	0	0	3
SEC 110	Security Concepts	Total	2 12	2 7	0	3 12
Spring - 2r CCT 285	nd year Trends in Cyber Crime	10141	2	2	0	3
CCT 289 ENG 113	Capstone Project		1 3	6	0	3
OR E	NG 114 Prof. Research & Repo	rting	3	0	0	3
Huma	nities/Fine Arts Elective	Total	3	0 8	0	3 12
	Gra	and Total	51/52	31	0	64/65
Cyber C	rime Technology • A55210	Suggeste	ed Prog	Seq	Ev	ening
Fall - 1st y CJC 111						
	Introduction to Criminal Justic	ce	3	0	0	3
CCT 110	Introduction to Criminal Justic Introduction to Cyber Crime	ce	3 3 2	0 0 2	0	3 3
CCT 110 CIS 110	Introduction to Cyber Crime Introduction to Computers	ce Total				3 3 9
CCT 110 CIS 110 Spring - 1s CCT 121	Introduction to Cyber Crime Introduction to Computers at year Computer Crime Investigation	Total	3 2 8 3	0 2 2 2	0 0 0	3 9 4
CCT 110 CIS 110 Spring - 1s	Introduction to Cyber Crime Introduction to Computers at year	Total	3 2 8	0 2 2	0 0	3 9
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125	Introduction to Cyber Crime Introduction to Computers at year Computer Crime Investigation Operating Systems Concepts Networking Basics	Total	3 2 8 3 2	0 2 2 2 3	0 0 0 0	3 9 4 3
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing	Total	3 2 8 3 2 2 7 3	0 2 2 2 3 2 7	0 0 0 0 0 0 0	3 9 4 3 3 10 3
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology	Total	3 2 8 3 2 2 7	0 2 2 2 3 2 7	0 0 0 0 0 0	3 9 4 3 3 10
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd 2 CCT 240	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques	Total ns Total	3 2 8 3 2 2 7 3 3 6	0 2 2 2 3 2 7 0 0 0	0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 6 3
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology	Total ns Total Total	3 2 8 3 2 2 7 3 3 6 2 1	0 2 2 2 3 2 7 0 0 0 3 4	0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 6 3 3
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 250 Spring - 2r	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities Ind year	Total ns Total	3 2 8 3 2 2 7 7 3 3 6 2 1 1 3	0 2 2 2 3 2 7 0 0 0 0 3 4 7	0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 6 3 6
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 250 Spring - 2r ENG 113 OR E	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Repo	Total Total Total Total	3 2 8 8 3 2 2 7 7 3 3 6 6 2 1 3 3 3 3 3	0 2 2 2 3 2 7 0 0 0 0 3 4 7	0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 3 3 3
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 250 Spring - 2r ENG 113 OR E	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research	Total Total Total Total Total	3 2 8 3 2 2 7 7 3 3 6 6 2 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 2 2 2 3 2 7 0 0 0 0 3 4 7 0 0 0	0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 6 3 6 3 3 6
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 250 Spring - 2r ENG 113 OR E	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year	Total Total Total Total	3 2 8 8 3 2 2 7 7 3 3 6 6 2 1 3 3 3 3 3	0 2 2 2 3 2 7 0 0 0 0 3 4 7	0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 6 3 3 3 6
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 250 Spring - 2r ENG 113 OR E Human Summer - MAT 115 OR M	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year Mathematicals Models IAT 140 Survey of Mathematics	Total ns Total Total Total orting Total	3 2 8 8 3 2 2 7 7 3 3 6 6 2 1 3 3 3 3 6 6 2 3	0 2 2 2 3 2 7 0 0 0 0 3 4 7 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 3 3 6 3 3 3
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 250 Spring - 2r ENG 113 OR E Huma: Summer - MAT 115 OR M and M	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year Mathematicals Models IAT 140 Survey of Mathematics AT 140A Survey of Mathematics	Total ns Total Total Total orting Total	3 2 8 3 2 2 2 7 7 3 3 3 6 6 2 1 3 3 3 6 6 2	0 2 2 2 3 2 7 0 0 0 0 3 4 7 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 3 3 6 3
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 250 Spring - 2r ENG 113 OR E Huma: Summer - MAT 115 OR M and M Fall - 3rd y CJC 131	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year Mathematicals Models IAT 140 Survey of Mathematics AT 140A Survey of Mathematics AT 140A Survey of Mathematics AT 140A Survey of Mathematics AT Criminal Law	Total ns Total Total Total rting Total ses Lab	3 2 8 8 3 2 2 7 7 3 3 3 6 6 2 1 3 3 3 3 6 6 2 2 3 0 0 2/3 3 3	0 2 2 2 3 2 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 3 3 1 3/4 3
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd : CCT 240 CCT 250 Spring - 2r ENG 113 OR E Huma: Summer - MAT 115 OR M Fall - 3rd y CJC 131 CCT 112	Introduction to Cyber Crime Introduction to Computers of year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year Mathematicals Models IAT 140 Survey of Mathematics AT 140A Survey of Mathematics	Total ns Total Total Total rting Total ses Lab	3 2 8 3 2 2 7 7 3 3 6 6 2 1 3 3 6 6 2 3 0 0 2/3	0 2 2 2 3 2 7 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 2 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 6 3 3 3 1 3/4
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 250 Spring - 2r ENG 113 OR E Huma: Summer - MAT 115 OR M and M Fall - 3rd y CJC 131 CCT 112 Spring - 3r CJC 112	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year Mathematicals Models IAT 140 Survey of Mathematics AT 140A Survey of Mathematics	Total Total Total Total rting Total Sees Lab Total	3 2 8 8 3 2 2 7 7 3 3 3 6 6 2 3 3 0 0 2/3 3 3 6 6 3 3	0 2 2 2 3 2 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 3 3 4 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 6 3 3 7 4 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 250 Spring - 2r ENG 113 OR E Human Summer - MAT 115 OR M and M Fall - 3rd y CJC 131 CCT 112 Spring - 3r	Introduction to Cyber Crime Introduction to Computers st year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year Mathematicals Models IAT 140 Survey of Mathematics AT 140A Survey of Mathematics AT 140A Survey of Mathematics (rear Criminal Law Ethics & High Technology rd year	Total ns Total Total Total orting Total ses Lab Total Total	3 2 8 8 3 2 2 7 7 3 3 3 6 6 2 1 3 3 3 6 6 2 2 3 0 0 2/3 3 3 6 6 3 2	0 2 2 2 3 2 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 3 3 4 3 3 6 3 3 3 6 3 3 3 6 3 3 6 6 3 3 3 6 6 3 3 7 4 7 5 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 250 Spring - 2r ENG 113 OR E Huma: Summer - MAT 115 OR M and M Fall - 3rd y CJC 131 CCT 112 Spring - 3r CJC 112	Introduction to Cyber Crime Introduction to Computers of year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year Mathematicals Models IAT 140 Survey of Mathematics AT 140A Survey of Mathematics	Total Total Total Total rting Total Sees Lab Total	3 2 8 8 3 2 2 7 7 3 3 3 6 6 2 3 3 0 0 2/3 3 3 6 6 3 3	0 2 2 2 3 2 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 3 3 4 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 6 3 3 7 4 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd : CCT 240 CCT 250 Spring - 2r ENG 113 OR E Huma: Summer - MAT 115 OR M and M Fall - 3rd y CJC 131 CCT 112 Spring - 3r CJC 112 CTS 120 Fall - 4th y	Introduction to Cyber Crime Introduction to Computers of year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year Mathematicals Models IAT 140 Survey of Mathematics AT 140A Survey of Mathematics	Total ns Total Total Total rting Total ses Lab Total Total Total	3 2 8 8 3 2 2 7 7 3 3 3 6 6 2 1 3 3 3 6 6 2 2 3 0 0 2/3 3 3 6 6 3 2 5 5 3 2	0 2 2 2 3 2 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 6 3 3 7 6 7 7 7 7
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd : CCT 240 CCT 250 Spring - 2r ENG 113 OR E Huma: Summer - MAT 115 OR M Fall - 3rd y CJC 131 CCT 112 Spring - 3r CJC 112 CTS 120 Fall - 4th y CCT 231 SEC 110 Spring - 4t	Introduction to Cyber Crime Introduction to Computers of year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year Mathematicals Models IAT 140 Survey of Mathematics AT 140A Survey of Mathematics AT 140A Survey of Mathematics AT 140A Survey of Mathematics wear Criminal Law Ethics & High Technology d year Criminology Hardware/Software Support	Total ns Total Total Total orting Total ses Lab Total Total	3 2 8 8 3 2 2 7 7 3 3 3 6 2 1 3 3 3 3 6 2 3 3 6 6 2 2/3 3 3 6 6 2 5 5 5 5 5 6 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 2 2 2 3 2 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3 9 4 3 3 10 3 3 6 3 3 3 6 3 3 6 3 3 6 3 3 6 6 3 3 6 6 3 3 6 6 6 7 6 7
CCT 110 CIS 110 Spring - 1s CCT 121 NOS 110 NET 125 Summer - ENG 111 PSY 150 Fall - 2nd CCT 240 CCT 240 CCT 250 Spring - 2r ENG 113 OR E Huma Summer - MAT 115 OR M and M Fall - 3rd y CJC 131 CCT 112 Spring - 3r CJC 112 CTS 120 Fall - 4th y CCT 231 SEC 110	Introduction to Cyber Crime Introduction to Computers of year Computer Crime Investigation Operating Systems Concepts Networking Basics 1st year Expository Writing General Psychology year Data Recovery Techniques Networking Vulnerabilities I and year Literature - Based Research NG 114 Prof. Research & Reponities/Fine Arts Elective 2nd year Mathematicals Models IAT 140 Survey of Mathematics AT 140A Survey of Mathematics	Total ns Total Total Total rting Total ses Lab Total Total Total	3 2 8 8 3 2 2 7 7 3 3 3 6 6 2 1 3 3 3 6 6 2 2 3 0 0 2/3 3 3 6 6 3 2 5 5 3 2	0 2 2 2 3 2 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 9 4 3 3 10 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 3 3 6 6 3 3 7 6 7 7 7 7

Grand Total

51/52 31 0 64/65

DENTAL HYGIENE A.A.S. Program (A45260)

Courses required to meet graduation requirements in this curriculum are offered during day hours only. Some general education courses are offered at night. Minimum time for completion: seven semesters. The Associate in Applied Science Degree is awarded graduates of this curriculum.

The Dental Hygiene curriculum provides individuals with the knowledge and skills to assess, plan, implement, and evaluate dental hygiene care for individuals and the community. Students will learn to prepare the operatory, collect patient histories, note abnormalities, plan care, teach oral hygiene, debride and polish teeth, expose radiographs, apply preventive agents, complete necessary chart entries, and perform other procedures related to dental hygiene care. Graduates of this program may be eligible to take national and state/regional examinations for licensure which are required to practice dental hygiene. Employment opportunities include dental offices, clinics, schools, public health agencies, industry, and educational institutions.

GENERAL EDUCATION COURSES:

GENI	LKAL E	DUCATION COURSES: SHC					
English	n/Commu	nications:					
COM	110	Introduction to Communication					
ENG	111	Expository Writing 3					
ENG	114	Prof Research & Reporting. 3					
LIVO	OR	1101 Research & Reporting					
ENG	112 OR	Argument-Based Research					
ENG	113	Literature-Based Research					
Human	ities/Fine	e Arts:					
Electiv	e	3					
Natura	Sciences	s/Mathematics:					
CHM	130	Gen, Org, & Biochemistry3					
CHM	130A	Gen, Org, & Biochemistry Lab1					
		al Sciences:					
PSY	150	General Psychology					
SOC	210	Introduction to Sociology					
	R COUF						
BIO	163 175	Basic Anat & Physiology					
BIO DEN	175	General Microbiology					
DEN	110	Orofacial Anatomy					
DEN	111						
DEN	120	Dental Radiography					
DEN	120	Dental Hygiene Precl Lab. 2					
DEN	121	Nutrition/Dental Health2					
DEN	123	Periodontology 2					
DEN	130	Dental Hygiene Theory I					
DEN	131	Dental Hygiene Clinic I					
DEN	140	Dental Hygiene Theory II					
DEN	141	Dental Hygiene Clinic II					
DEN	220	Dental Hygiene Theory III					
DEN	221	Dental Hygiene Clinic III					
DEN	222	General & Oral Pathology					
DEN	223	Dental Pharmacology					
DEN	224	Materials and Procedures 2					
DEN	230	Dental Hygiene Theory IV					
DEN	231	Dental Hygiene Clinic IV4					
DEN	232	Community Dental Health					
DEN	233	Professional Development2					
Total (Credit H	ours Required76					
DEVE	LOPME	NTAL COURSE REQUIREMENTS*					
ENG	090	Composition Strategies					
MAT		10, DMA 020, DMA 030, DMA 040, DMA 0505					
RED	090	Improved College Reading4					
	*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of						

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Background Check - A criminal background check is required for students to participate in external rotations and for North Carolina Dental Hygiene Licensure.

Dental Hygiene • A45260 Suggested Program Sequence Day

	Suggested Frogram Sequence Da	ıy		kExp	
Spring - 1st	t year	Class	Lab	Clin/WkExp	Credit
BIO 163	Basic Anatomy and Physiology	4	2	0	5
CHM 130	General, Organic & Biochemistry	3	0	0	3
CHM 130A	General, Organic & Biochemistry Lab	0	2	0	1
ENG 111	Expository Writing	3	0	0	3
PSY 150	General Psychology	3	0	0	3
Fall - 1st ye	Total	13	4	0	15
BIO 175	General Microbiology	2	2	0	3
COM 110	Intro to Communication	3	0	0	3
ENG 114	Prof Research & Reporting (Preferred)	3	0	0	3
OR	ENG 112 Argument-Based Research	3	0	0	3
OR	ENG 113 Literature-Based Research	3	0	0	3
SOC 210	Introduction to Sociology	3	0	0	3
	Total	11	2	0	12

Note: General Education Course Requirements-Applicants must have compeleted <u>ALL General Education courses</u> required for the program prior to the Dental Hygiene Program application deadline (March 15). Students must complete BIO 163, BIO 175, CHM 130 & CHM 130A, COM 110, ENG 111, ENG 114, PSY 150, & SOC 210. Grades lower than "C" will not be accepted. Students must also be accepted into the Dental Hygiene program prior to taking DEN courses.

	Orofacial Anatomy Infection/Hazard Control		2 2 2 0 3	2 0 0 6 0	0 0 0 0	3 2 2 2 3
		Total	9	8	0	12
Spring - 2n	d year					
DEN 112	Dental Radiography		2	3	0	3
DEN 222	General & Oral Pathology		2	0	0	2
DEN 130	2		2	0	0	2
DEN 131	DH Clinic I		0	0	9	3
DEN 123	Nutrition/Dental Health		2	0	0	2
		Total	8	3	9	12
Summer - 2	2nd year					
DEN 124	Periodontology		2	0	0	2
DEN 140	DH Theory II		1	0	0	1
DEN 141	DH Clinic II		0	0	6	2
		Total	3	0	6	5
Fall - 3rd y	ear					
DEN 220			2	0	0	2
DEN 221	-		0	0	12	4
DEN 223	Dental Pharmacology		2	0	0	2
DEN 232	Community Dental Health		2	0	3	3
		Total	6	0	15	11
Spring - 3rd	1 vear					
DEN 224	Materials and Procedures		1	3	0	2
DEN 224 DEN 230	DH Theory IV		1	0		1
DEN 231			0	0	12	-
	Professional Development		2	0	0	2
221, 200	Troiseonal 20, eropinent		_			
		Total	4	3	12	9
		Grand Total	54	20	42	76

SHC

EARLY CHILDHOOD EDUCATION

A.A.S. Program (A55220)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. Minimum time for completion: Day -- six semesters full-time attendance; Evening -- ten semesters part-time attendance. An Associate in Applied Science Degree is awarded graduates of the Early Childhood Education Degree curriculum. A Diploma is awarded students completing the diploma curriculum. A Certificate is awarded students completing the certificate curriculum. Special Admissions Requirements for Early Childhood Education Programs. In addition to the general procedures to apply for admission to a curriculum program of study, applicants for the Early Childhood Education program must complete other procedures. CVCC's Early Childhood Education program requires completion of educational experiences in childcare facilities and/or public school settings. These settings require students to undergo criminal background checks. If a student is excluded from an educational setting as a result of a background check, the student may be asked to withdraw from the program. Some settings may also require additional vaccinations and/or health examinations. Admission into CVCC's Early Childhood Education program may be contingent upon receipt of a CVCC medical form documenting that the applicant possesses satisfactory physical and mental health. Facilities for providing health care services are not available on campus.

The Early Childhood Education curriculum prepares individuals to work with children from infancy through middle childhood 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 parents 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.

CENEDALE	DUCATION COURGES
	DUCATION COURSES: SHC
English/Commu	
COM 110	Introduction to Communication
ENG 111	Expository Writing
ENG 113	Literature-Based Research 3
Humanities/Fine	OR ENG 114 Pro Research & Reporting
Elective	3
Natural Sciences	/Mathematics:
Elective	3/4
Social/Behaviora	
Elective	3
MAJOR COUR	CEC.
EDU 119	Intro to Early Child Educ
EDU 131	Child, Family, & Commun
EDU 144 EDU 145	Child Development I 3
OR	Child Development II
PSY	244 Child Development I
PSY	245 Child Development II 3
	*
EDU 146	Child Guidance 3
EDU 151 EDU 153	Creative Activities 3
EDU 153 EDU 221	Health, Safety, & Nutrit
EDU 221 EDU 251	Exploration Activities 3
EDU 251 EDU 259	Curriculum Planning
EDU 271	Educational Technology
EDU 280	Language & Literacy Exp
EDU 284	Early Child Capstone Prac
PSY 150	General Psychology
SOC 210	Introduction to Sociology
	/e2/3
Students a	re required to take one (1) course from the following:
CIS 110	
EDU 234	
EDU 235	
EDU 261 EDU 262	
EDU 262 EDU 275	
	IRED COURSES:
ACA 111	College Student Success

(Early Childhood Education cont.)

DEVEL	LOPM	ENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
ENG	090		3
MAT	DMA	. 010, DMA 020, DMA 030, DMA 040, DMA 050	5
RED	090	Improved College Reading	4

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

	Lab	Clin/WkExp	Credit			
Fall - 1st yea ACA 111 EDU 119 *EDU 144 EDU 151 EDU 271 ENG 111	Early Childhood Educ Suggested Program Toollege Student Success Intro to Early Childhood Educ Child Development I Creative Activities Educational Technology Expository Writing		1 4 3 3 2 3	0 0 0 0 0 2	0 0 0 0 0	1 4 3 3 3 3
		Total	16	2	0	17
	Child Development II Child Guidance		3 3 3 3	0 0 0 0 1	0 0 0 0	3 3 3 3/4
		Total	15	1	0	15/16
Summer - 1st EDU 153 Social/I	t year Health, Safety & Nutrition Behavioral Science Elective		3	0	0	3 3
		Total	6	0	0	6
	Literature Based Research NG 114 Prof. Research & Report Child Family & Community Children With Exceptional	rting	3 3 3 3 3	0 0 0 0 0	0 0 0 0 0	3 3 3 3 3 3
		Total	15	0	0	15
Spring - 2nd COM 110 EDU 251 EDU 280 EDU 284 CIS/ED	Intro to Communication Exploration Activities		3 3 1	0 0 0 9	0 0 0 0	3 3 4 2/3
		Total	13	10	0	15/16
	Gra	and Total	65	12	0	68/70

CIS/EDU Electives: CIS 110, EDU 261, EDU 262, EDU 234, EDU 235, EDU 275. Natural Science and Math Electives: AST 151, AST 151A, BIO 110, BIO 111, BIO 143, BIO 163, BIO 168, CHM 130, CHM 130A Lab, CHM 131, CHM 131A Lab, GEL 111, GEL 120, MAT 115, MAT 121, MAT 140, MAT 140A Lab, MAT 151, MAT 151A Lab, MAT 161, MAT 161A Lab, MAT 171, MAT 171A Lab, MAT 175, MAT 175A Lab, PHS 130, PHY 110 and PHY 110A Lab, PHY 121.

^{*} Students may take PSY 244 and PSY 245 for EDU 144 and EDU 145

EARLY CHILDHOOD EDUCATION Diploma Program (D55220)

GENERA	L EDUCATION COURSES:SHC
	mmunications:
ENG 111	Expository Writing
ENG 113	Literature-Based Research
OR	ENG 114 Prof Research & Reporting
MAJOR C	OURSES:
EDU 119	Intro to Early Child Educ4
EDU 131	Child, Family, & Commun
EDU 144	Child Development I
EDU 145	Child Development II
OR	
	PSY 244 Child Development I
	•
EDU 146	Child Guidance 3
EDU 151	Creative Activities
EDU 153	Health, Safety, & Nutrit
EDU 221	Children with Exceptional 3
EDU 259	Curriculum Planning
EDU 271	Educational Technology 3
EDU 280 EDU 284	Language & Literacy Exp
	Early Capstone Practicum
OTHER R	EQUIRED COURSES:
ACA 111	College Student Success
Total Cred	lit Hours Required45
DEVELOP	PMENTAL COURSE REQUIREMENTS*
ENG 090	Composition Strategies
RED 090	Improved College Reading

Early Childhood Education Diploma Suggested Sequence (D55220)

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of

reading, English, mathematics, and computers. Please refer to the Course Descriptions

section for prerequisite course information.

Fall - 1st ye ACA 111 EDU 119 *EDU 144 EDU 151 EDU 271	ear College Student Success Intro to Early Childhood Edu Child Development I Creative Activities Educational Technology	cation	1 4 3 3 2	0 0 0 0 2	0 0 0 0 0	1 4 3 3 3
G : 1.		Total	13	2	0	14
*EDU 145 EDU 146 ENG 111 EDU 280	year Child Development II Child Guidance Expository Writing Language & Literacy Exp		3 3 3 3	0 0 0 0	0 0 0 0	3 3 3 3
		Total	12	0	0	12
Summer - 1s EDU 153 ENG 113 OR EN	it year Health, Safety & Nutrition Literature Based Research NG 114 Prof. Research & Repo	orting	3 3 3	0 0 0	0 0 0	3 3 3
		Total	6	0	0	6
Fall - 2nd ye EDU 131 EDU 221 EDU 259 EDU 284	Child Family & Community	ac	3 3 3	0 0 0 9	0 0 0 0	3 3 4
		Total	10	9	0	13
	Gr	and Total	41	11	0	45

EARLY CHILDHOOD EDUCATION School-Age Certificate Program (C5522004)

	50	moorrige certificate rrogram (est	,	,,,		
MAJO	R COUR	SES:				SHC
EDU	131	Child, Family, & Commun				3
EDU	144	Child Development I				3
EDU	145	Child Development II				3
	OR	•				
	PSY	244 Child Development I				3
	PSY	245 Child Development II				3
EDU	146	Child Guidance				3
EDU	235	School-Age Dev & Program				3
EDU	275	Effective Teach Train				2
OTHE	R REQU	IRED COURSES:				
ACA	111	College Student Success				1
Total (Credit Ho	ours Required				18
DEVE	LOPMEN	NTAL COURSE REQUIREMENTS*				
ENG		Composition Strategies				3
RED	090	Improved College Reading				
*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.						
	Scho	ool-Age Cert. Suggested Sequence (C:	552	2004	4)	
Fall - 1	st year					
ACA 1	111 Co	ollege Student Success	1	0	0	1
EDU 1	31 Cł	nild Family & Commun	3	0	0	3

INFANT/TODDLER CARE - Certificate Prog. (C55290)

Total

Total

Grand Total

3

3

0 18

0 10

10 0

3 0 0 3

2

8

18 0

0

0 0

0 0 8

0

0 6

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. The Certificate is awarded graduates of this curriculum. 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 young children under the supervision of qualified teachers. 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 parents and children; design and implementation of appropriate curriculum; and other related topics. Graduates should be prepared to plan and implement developmentally appropriate infant/toddler programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start Programs, and other infant/toddler programs.

centers, Early Head Start Programs, and other infant/toddler programs.						
(Select EDU	Intro to Early Child Educ Child, Family & Commun			3	3 3	
OTHER REQUIRED COURSES: ACA 111 College Student Success						
RED 090	Composition Strategies Improved College Reading				4	
Infant/	Foddler Care Cert. Prog, (C55290)	Suggeste	ed S	equ	ence	
EDU 119 EDU 131	College Student Success Intro to Early Childhood Education Child, Family and Community Development Elective	1 4 3 3	0 0 0 0	0	3	
Spring - 1st EDU 153 EDU 234	Health, Safety and Nutrition	3 3	0 0 0	0 0 0	11 3 3	

Total

Grand Total

*EDU 144

EDU 235

EDU 146

EDU 275

Spring - 1st year *EDU 145 Ch

Child Development I

Child Development II

Effective Teacher Training

Child Guidance

School-Age Dev & Program

ELECTRICAL/ELECTRONICS TECHNOLOGY Diploma Program (D35220)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. Minimum time for completion: Day -- two semesters full-time attendance; Evening -- four semesters full-time attendance. The Diploma is awarded graduates of this curriculum. 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.

GENI	ERAL E	DUCATION COURSES:	SHC				
English	English/Communications:						
ENG	102	Applied Communications II	3				
	OR						
ENG	111	Expository Writing	3				
Natura	Sciences	/Mathematics:					
MAT	101	Applied Mathematics I	3				
	OR						
MAT	115	Mathematical Models	3				
MAJO	R COUR	SES:					
BPR	111	Blueprint Reading	2				
ELC	112	DC/AC Electricity	5				
ELC	113	Basic Wiring I	4				
ELC	115	Industrial Wiring	4				
ELC	117	Motors and Controls	4				
ELC	118	National Electrical Code	2				
ELC	119	NEC Calculations	2				
ELC	128	Intro to PLC	3				
ELN	229	Industrial Electronics	4				
Total (Total Credit Hours Required36						
DEVE	LOPMEN	NTAL COURSE REQUIREMENTS*					
MAT	DMA 01	10, DMA 020, DMA 030	3				
RED	080	Intro to College Reading	4				
*Developmental coursework (including all prerequisites) will be required of students							

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Electrical/Electronics Technology Diploma • D35220 Suggested Program Sequence Day

Fall - 1st yea	or.	Class	Lab	Clin/wke	Credit
BPR 111		1	2	0	2
	Blueprint Reading				_
ELC 112	DC/AC Electricity	3	6	0	5
ELC 113	Basic Wiring I	2	6	0	4
ELC 118	National Electrical Code	1	2	0	2
ELC 119	NEC Calculations	1	2	0	2
MAT 101	Applied Mathematics I	2	2	0	3
OR	MAT 115 Mathematical Models	2	2	0	3
	Total	10	20	0	18
Spring - 1st	year				
ELC 115	Industrial Wiring	2	6	0	4
ELC 117	Motors and Controls	2	6	0	4
ELC 128	Intro to PLC	2	3	0	3
ELN 229	Industrial Electronics	2	4	0	4
ENG 102	Applied Communications II	3	0	0	3
OR	ENG 111 Expository Writing	3	0	0	3
	Total	11	19	0	18
	Grand Tot	tal 21	39	0	36

g 🔰 🚉	Creart
Suggested Prog Seq Evening Suggested Prog Seq Evening Suggested Prog Seq Evening Fall - 1st year	
FIC 113 Basic Wiring I 2 6 0 /	4
ELC 118 National Electrical Code 1 2 0 2	2.
MAT 101 Applied Mathematics I 2 2 0 3	3
ELC 118 National Electrical Code 1 2 0 2 MAT 101 Applied Mathematics I 2 2 0 3 OR MAT 115 Mathematical Models 2 2 0 3	3
Total 5 10 0 9	9
Spring - 1st year	
BPR 111 Blueprint Reading 1 2 0 2	2
ELC 112 DC/AC Electricity 3 6 0 5 ELC 119 NEC Calculations 1 2 0 2 ENG 102 Applied Communications II 3 0 0 3 OR ENG 111 Expository Writing 3 0 0 3	5
ELC 119 NEC Calculations 1 2 0 2	2
ENG 102 Applied Communications II 3 0 0 3	3
OR ENG 111 Expository Writing 3 0 0 3	3
	12
Fall - 2nd year	
	4
0 0 0 0	0
Total 4 10 0 8	8
Spring - 2nd year ELC 115 Industrial Wiring 2 6 0 4	4
ELC 128 Intro to PLC 2 3 0 3	
Total 4 9 0 7	7
	36

Electrical/Electronics Technology Electrical Installation Concentration - Cert. Prog. (C35220)

MAJO	OR COU	JRSES:	SHC
BPR	111	Blueprint Reading	2
ELC	113	Basic Wiring I	4
ELC	115	Industrial Wiring	4
ELC	118	National Electrical Code	2
Total	Credit	Hours Required	12
		ENTAL COURSE REQUIREMENTS* Intro to College Reading	4

Electrical/Installation Concentration (C35220) Certificate Program Suggested Sequence

Fall - 1st ye	ar					
BPR 111	Blueprint Reading		1	2	0	2
ELC 113	Basic Wiring I		2	6	0	4
ELC 118	National Electrical Code		1	2	0	2
		Total	4	10	0	8
Spring - 1st year						
ELC 115	Industrial Wiring		2	6	0	4
		Total	2	6	0	4
		Grand Total	6	16	0	12

ELECTRONEURODIAGNOSTIC TECHNOLOGY A.A.S. Program (A45320)

Courses required to meet graduation requirements in this curriculum are offered during day hours only. Some general education courses are offered at night. Minimum time for completion: four semesters. The Associate in Applied Science Degree is awarded graduates of this curriculum.

The Electroneurodiagnostic Technology curriculum is designed to provide students with the knowledge and skills to obtain recordings of patients' nervous system functions through the use of electroencephalographic equipment and other electrophysiological devices. Course work includes communication skills with patients and healthcare personnel, taking appropriate patient histories, electrode application, documentation of patients' clinical status, electrical waveform recognition, management of medical emergencies, and preparation of descriptive reports for the physician. Graduates will qualify to take the ABRET (American Board of Registration of EEG and EP Technologists) Exam and, working under the supervision of a qualified physician, may be employed by hospitals or private offices of neurologists and neurosurgeons.

CENI	DAI E	DUCATION COURSES:	SHC
_		nications:	SHC
ENG		Expository Writing	3
		are required to take one (1) course from the following:	3
	ENG 112	2 Argument-Based Research	3
	ENG 113		
	ENG 114		
Humar	ities/Fine	Arts:	
Electiv	e		3
Natura	l Sciences	s/Mathematics:	
MAT	115	Mathematical Models	3
Social/	Behaviora	al Sciences:	
PSY	150	General Psychology	3
MAJO	R COUF	RSES:	
BIO	168	Anatomy and Physiology I	4
BIO	169	Anatomy and Physiology II	4
CIS	110	Introduction to Computers	3
EDT	110	Neuroscience/Pathol Cond	4
EDT	111	Laboratory Management	1
EDT	111A	EDT Laboratory Basics	1
EDT	112	Instrument/Record Methods	3
EDT	113	Clinical Correlates	
EDT	114	Special Procedures	
EDT	115	EDT Laboratory Practice	
EDT	116	EDT Clinical Experience	12
EDT	118	EDT Laboratory Practice II	3
ELC	111	Intro to Electricity	3
MED	118	Medical Law and Ethics	2
MED	121	Medical Terminology I	
MED	122	Medical Terminology II	3
Total (Credit H	ours Required	68
1000	cream II	our s required	
DEVE	LOPME	NTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
ENG	090	Composition Strategies	
MAT		10, DMA 020, DMA 030, DMA 040, DMA 050	
RED		Improved College Reading	

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Improved College Reading.....

	Electroneurodiagnostic T Suggested Program			20	Œхр	
Fall - 1st ye CIS 110 EDT 110 EDT 111 EDT 111A ENG 111 MED 121 PSY 150	ear Introduction to Computer Neuroscience/Pathol Conc Laboratory Management EDT Laboratory Basics Expository Writing Medical Terminology I General Psychology		2 4 1 1 3 3 3 3	qeT 2 0 0 0 0 0 0	0 0 0 0 0 0 Clin/WkExp	3 4 1 1 3 3 3 3
		Total	17	2	0	18
	Anatomy and Physiology Instrumental/Record Meth Clinical Correlates EDT Laboratory Practice Intro to Electricity Argument - Based Resear NG 113 - Literature - Base NG 114 - Prof Research &	nods ch d Research	3 3 2 0 2 3	3 0 0 6 2 0	0 0 0 0 0	4 3 2 2 3 3
		Total	13	11	0	17
Fall - 2nd y EDT 114 EDT 118 MAT 115 MED 118 MED 122 Human	Special Procedures EDT Laboratory Practice Mathematical Models Medical Law and Ethics Medical Terminology II nities/Fine Arts Elective	II	3 0 2 2 3 3	0 9 2 0 0	0 0 0 0 0	3 3 2 3 3
		Total	13	11	0	17
Spring - 2nd EDT 116	-		0	0	36	12
		Total	0	0	36	12
		Grand Total	43	24	36	64

Note: Students must complete BIO 168, Anatomy & Physiology I, 4 credits hours, prior to admission into the program.

MAT RED

ELECTRONICS ENGINEERING TECHNOLOGY A.A.S. Program (A40200)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. Minimum time for completion: Day -- five semesters full-time attendance; Evening -- ten semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum. 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.

GEN	VERAL	EDUCATION COURS	ES: SHC
Engli	sh/Com	nunications:	
ENG	111	Expository Writing	3
ENG	114	Prof Research & Report	ng3
	OR		
ENG	112	Argument-Based Resear	ch3
	OR		
ENG	113	Literature-Based Resear	ch3
Huma	anities/F	ne Arts:	
Elect	ive		3
Natur	ral Scien	es/Mathematics:	
MAT	121	Algebra/Trigonometry I	3
Socia	l/Behav	oral Sciences:	
Elect	ive		3
MAJ	OR CO	JRSES:	
CSC	134	C++ Programming	3
DFT	117		2
DFT	151	CAD I	3
EGR	110	Intro to Engineering Tec	h2
ELC	138	DC Circuit Analysis	4
ELC	139	AC Circuit Analysis	4
ELC	229		2
ELN	131	Semiconductor Applicat	ons4
ELN	132	Linear IC Applications	4
ELN	133	Digital Electronics	4
ELN	234	_	34
MAT			3
PHY	131	•	4
EET :	Elective		10
			num of 10 SHC from the following:
	ELC		3
	ELC		[4
			3
			System4
		2 2	rs4
	PHY	33 Physics-Sound & Lig	ht4
Co-o	p Optio	: Qualified students may ele	ect to take up to 2 credit hours of

cooperative education in place of ELC 229.

Physics Note: Students planning to transfer to a 4-year college should consider taking PHY 131 & PHY 133. Please see your advisor.

Total Credit Hours Required68					
DEVE	LOPMI	ENTAL COURSE REQUIREMENTS*			
ENG	090	Composition Strategies	3		
MAT	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050	5		

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Electronics Engineering Technology • A40200

	Suggested Program	Sequence Day			Exp	
			Class	p	Clin/WkExp	Credit
Fall - 1st ye	ear		Ü	Lab	Ö	Ü
CSC 134	C++ Programming		2	3	0	3
DFT 117	Technical Drafting		1	2	0	2
EGR 110	Intro to Engineering Tech		1	2	0	2
ELC 138	DC Circuit Analysis		3	3	0	4
MAT 121	Algebra/Trigonometry I		2	2	0	3
		Total	9	12	0	14
Spring - 1st	t year					
DFT 151	CAD I		2	3	0	3
ELC 139	AC Circuit Analysis		3	3	0	4
ELN 131	Semiconductor Application	1S	3	3	0	4
ENG 111	Expository Writing		3	0	0	3
MAT 122	Algebra/Trigonometry II		2	2	0	3
		Total	13	11	0	17
Summer - 1	2					
ENG 114	Prof Research & Reporting		3	0	0	3
OR	ENG 112 Argument-Based		3	0	0	3
OR	ENG 113 Literature-Based	Research	3	0	0	3
Huma	nities/Fine Arts Elective		3	0	0	3
		Total	6	0	0	6
Fall - 2nd y			_	_		
ELN 132			3	3	0	4
ELN 133	Digital Electronics		3	3	0	
PHY 131	Physics-Mechanics	E1 .:	3	2	0	4
Electro	onics Engineering Technolo	gy Elective	2	2	0	3
a . •		Total	11	10	0	15
Spring - 2n				•		_
ELC 229	Applications Project		1	3	0	2
ELN 234	-		3	3	0	
	/Behavioral Science Electiv		3	0	0	-
	onics Engineering Technolo		3	3	0	4
Electro	onics Engineering Technolo	gy Elective	3	3	0	4
		Total	13	12	0	16
		Grand Total	50	45	0	68

Co-op Option: Qualified Students may elect to take up to 2 credit hours of cooperative education in place of ELC 229.

Physics Note: Students planning to transfer to a 4-year college should contact their advisor.

Electronic Engineering Technology Electives: The student is required to take a minimum of 10 credits from this list.

ELC 135	Electrical Machines I	2	2	0	3	
ELC 136	Electrical Machines II	3	3	0	4	
ELN 231	Industrial Controls	2	3	0	3	
ELN 235	Data Communications Systems	3	3	0	4	
ELN 260	Prog Logic Controllers	3	3	0	4	
PHY 133	Physics - Sound & Light	3	2	0	4	

RED

090

	Electronics Engineering			200	φ	
	Suggested Progra	m Sequence Eve	ning		Æ	
Fall - 1st yea	ır		Class	Lab	Clin/WkExp	Credit
EGR 110	Intro to Engineering Tech	ı	1	2	0	2
ELC 138	DC Circuit Analysis	•	3	3	0	4
MAT 121	Algebra/Trigonometry I		2	2	0	3
		Total	6	7	0	9
Spring - 1st	vear	101111	O	,	Ü	
ELC 139	AC Circuit Analysis		3	3	0	4
MAT 122	Algebra/Trigonometry II		2	2	0	3
	,	Total	5	5	0	7
Summer - 1s	t vear	Total	3	3	U	/
ENG 111	Expository Writing		3	0	0	3
	Behavioral Science Electiv	re	3	0	0	3
~~~						
Fall 2nd vo	o.r.	Total	6	0	0	6
Fall - 2nd ye DFT 117	Technical Drafting		1	2	0	2
ELN 131	Semiconductor Applica	ations	3	3	0	4
EEN 131	Semiconductor reprinc					
a : • • •		Total	4	5	0	6
Spring - 2nd			2	2	0	4
ELN 132	Linear IC Applications		3	3	0	4
ELN 133	Digital Electronics		3	3	U	4
		Total	6	6	0	8
Summer - 2n	-	(D, C, 1)	2	_		
ENG 114	Prof Research & Reportin	,	3	0	0	3
OR	ENG 112 Argument-B		3	0	0	3
OR	ENG 113 Literature-B	ased Research	3	0	0	3
Human	ities/Fine Arts Elective		3	0	0	3
		Total	6	0	0	6
Fall - 3rd year						
CSC 134	C++ Programming		2	3	0	3
Electro	nics Engineering Technolo	gy Elective	2	2	0	3
		Total	4	5	0	6
Spring - 3rd	year					
DFT 151	CAD I		2	3	0	3
Electro	nics Engineering Technolo	gy Elective	3	3	0	3
		Total	5	6	0	6
Fall - 4th yea	ar					
ELN 234	Communication Systems		3	3	0	4
PHY 131	Physics-Mechanics		3	2	0	4
		Total	6	5	0	8
Spring - 4th	year					
ELC 229	Applications Project		1	3	0	2
Electro	nics Engineering Technologies	ogy Elective	3	3	0	4
		Total	4	6	0	6
			-			
	G	rand Total	50	45	0	68

Flactronics Engineering Technology • A40200

**Co-op Option:** Qualified students may elect to take up to 2 credit hours of cooperative education in place of ELC 229.

**Physics Notes:** Students planning to transfer to a 4-year college should contact their advisor.

**Electronic Engineering Technology Electives:** The student is required to take a minimum of 10 credits from this list

Electrical Machines I	2	2	0	3
Electrical Machines II	3	3	0	4
Industrial Controls	2	3	0	3
Data Communications Systems	3	3	0	4
Prog Logic Controllers	3	3	0	4
Physics-Sound & Light	3	2	0	4
	Electrical Machines II Industrial Controls Data Communications Systems Prog Logic Controllers	Electrical Machines II 3 Industrial Controls 2 Data Communications Systems 3 Prog Logic Controllers 3	Electrical Machines II 3 3 Industrial Controls 2 3 Data Communications Systems 3 3 Prog Logic Controllers 3 3	Electrical Machines II330Industrial Controls230Data Communications Systems330Prog Logic Controllers330

#### EMERGENCY MEDICAL SCIENCE A.A.S. Program (A45340)

The Emergency Medical Science Curriculum is Accredited by the Commission on Accreditation of Allied Health Education Programs, (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

The Emergency Medical Science curriculum is designed to prepare graduates to enter the workforce as paramedics. Additionally, the program can provide an Associate Degree for individuals desiring an opportunity for career enhancement. The course of study provides the student an opportunity to acquire basic and advanced life support knowledge and skills by utilizing classroom instruction, practical laboratory sessions, hospital clinical experience, and field internships with emergency medical service agencies. Students progressing through the program may be eligible to apply for both state and national certification exams. Employment opportunities include ambulance services, fire and rescue agencies, air medical services, specialty areas of hospitals, industry, educational institutions, and government agencies.

GEN	ERAL	EDUCATION COURSES: SHC
Englis	h/Com	munications:
ENG	111	Expository Writing
ENG	114 OR	Prof Research & Reporting
ENG	112 OR	Argument-Based Research
ENG	113	Literature-Based Research
Humai	nities/F	ine Arts:
Electiv	re	3
Natura	l Scien	ices/Mathematics:
BIO	168	Anatomy and Physiology I4
BIO	169	Anatomy and Physiology II4
Social	Behav	ioral Sciences:
PSY	150	General Psychology
MAJC	OR CO	URSES:
CIS	110	Introduction to Computers
EMS	110	EMT-Basic
EMS	120	Intermediate Interventions
EMS	121	EMS Clinical Practicum I
EMS	130	Pharmacology I for EMS2
EMS	131	Adv Airway Management
EMS	140	Rescue Scene Management
EMS	150	Emerg Vehicles & EMS Comm
EMS	210	Adv Patient Assessment
EMS	220	Cardiology
EMS	221	EMS Clinical Practicum II
EMS	231	EMS Clinical Pract III
EMS	235	EMS Management 2
EMS	240 241	Special Needs Patients
EMS	250	EMS Clinical Practicum IV
EMS EMS	260	Advanced Medical Emergencies 3 Advanced Trauma Emergencies 2
EMS	270	
EMS	285	Life Span Emergencies 3 EMS Capstone 2
		t Hours Required
Total	Creun	i flours Required/2
DEVE	LOPM	MENTAL COURSE REQUIREMENTS*
CTS	080	Computing Fundamentals
ENG	090	Composition Strategies
MAT	DM/	A 010, DMA 020, DMA 030, DMA 040
RED	090	Improved College Reading
*Deve	lopmer	ntal coursework (including all prerequisites) will be required of students
whose	nlacen	part test scores indicate a peed for greater proficiency in the great of

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Emergency Medical Science					Clin/WkExp	
	Suggested Program	Sequence Day	Class	p	m/W	edit
Fall - 1st ye	ar		Ü	Lab	J	Cr
EMS 110 EMS 150 BIO 169	EMT Basic Emergency Vehicles & EM Anatomy and Physiology	IS Comm	5 1 3	6 3 3	0 0 0	7 2 4
		Total	9	12	0	13
Spring - 1st EMS 120 EMS 121 EMS 130 EMS 131 CIS 110	year Intermediate Interventions Clinical Practicum I Pharmacology I for EMS Adv Airway Management Introduction to Computers		2 0 1 1 2	3 0 3 2 2	0 6 0 0	3 2 2 2 3
C 1		Total	6	10	6	12
Summer - 1 EMS 210 EMS 221 EMS 250 EMS 260 PSY 150	st year Adv Patient Assessment EMS Clinical Practicum II Advanced Medical Emerge Advanced Trauma Emerger General Psychology	encies	1 0 2 1 3	3 0 3 3 0	0 9 0 0 0	2 3 3 2 3
E II 2 1		Total	7	9	9	13
Fall - 2nd y EMS 140 EMS 220 EMS 231 EMS 270 ENG 111	ear Rescue Scene Management Cardiology EMS Clinical Pract III Life Span Emergencies Expository Writing		1 2 0 2 3	3 6 0 2 0	0 0 9 0	2 4 3 3 3
Carina 2n	4 2100	Total	8	11	9	15
Spring - 2nd EMS 235 EMS 240 EMS 241 EMS 285 ENG 114 OR OR Human	EMS Management Special Needs Patients EMS Clinical Practicum IT EMS Capstone Prof Research & Reporting ENG 112 Argument-Based ENG 113 Literature-Based nities/Fine Arts Elective	(Preferred) Research	2 1 0 1 3 3 3	0 2 0 3 0 0 0 0	0 0 9 0 0 0 0	2 2 3 2 3 3 3 3 3
		Total	10	5	9	15
		Grand Total	40	47	33	68

**Note:** Students must complete BIO 168, Anatomy & Physiology I, 4 credit hours, prior to admission into the program.

#### EMERGENCY MEDICAL SCIENCE CURRICULUM Certificate Paramedic Advancement Program (A4534009)

This special track was developed to facilitate a North Carolina certified paramedic in returning to school to obtain an Associate in Applied Science Degree. The length of this course varies depending on the individual's experience and prior education. In order to enable the most rapid completion of the CPA Program the following prerequisites and/or admission requirements will be used:

- Meet CVCC's institutional requirements for admissions as an EMS
- Two years of full or four years of part-time employment as a field paramedic in an Advanced Life Support system.
- Valid North Carolina paramedic certification.
- Valid North Carolina paramedic certification.

  Two letters of reference will be required: one from an immediate supervisor and one from the service's Medical Director attesting to the individual's competence in basic and advanced life support skills.

  Successful completion of the (EVOC/ADM) Emergency Vehicle Operation Course/ Advanced Driving Maneuvers.

  Once the criterion above has been met, the student will then be offered advance placement exams in the following courses so as to facilitate their movement through the program. To successfully advance place a
- their movement through the program. To successfully advance place a course all skills required for the course must be successfully completed and the written exam must be passed with a grade of "B" or higher.
  - A. EMS 110 **EMT-Basic**
  - B. EMS 120 Intermediate Interventions
  - Pharmacology I for EMS C. EMS 130
  - D. EMS 131 Advanced Airway Management
  - E. EMS 210 Advanced Patient Assessment

  - F. EMS 250 Advanced Medical Emergencies
  - G. EMS 260 H. EMS 220 Advanced Trauma Emergencies
  - Cardiology
  - I. EMS 270 Life Span Emergencies
  - J. EMS 240 Special Needs Patients

The student may transfer and/or advance place up to sixty-five percent of the required course hours. This track will be highly individualized depending on any prior college credits by the student and their success with advanced placement scores.

#### **ENTREPRENEURSHIP A.A.S. Program (A25490)**

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.

_			CATION COURSES: SHO
		nmunicat	
ENG	111		pository Writing
ENG	114		of Research & Reporting
		Fine Arts	
Electiv			
		vioral Sci	
Electiv			
			thematics:
MAT OR	115		thematical Models
MAT	161	Col	llege Algebra
MAT	161	A Col	llege Algebra Lab
MAJC	R CO	DURSES	S:
ACC	120	Pri	n of Financial Acet
BUS	110	Intr	roduction to Business
BUS	139	Ent	trepreneurship I
BUS	240	Bus	siness Ethics
BUS	245	Ent	trepreneurship II
BUS	253		adership and Mgt Skills
CIS	110		roduction to Computers
COE	110		orld of Work
ECO	251		n of Microeconomics
ETR	215		w for Entrepreneurs.
ETR	220		ovation and Creativity
ETR	230		trepreneur Marketing
ETR	240		nding for Entrepreneurs
ETR	270		trepreneurship Issues
			* *
Eı	itrepi	eneursh	ip Electives:9
			ip Electives: Students are required to take a minimum
			e follow:
	CC	121	Prin of Managerial Accounting
	JS	125	Personal Finance
BI	JS	153	Human Resource Management
	DΕ	XXX	World of Work
C'	ΓS	130	Spreadsheet
EC	CO	252	Prin of Macroeconomics
M	ΚT	123	Fundamentals of Selling
M	ΚT	220	Advertising and Sales Promotion
M	KT	221	Consumer Behavior
M	KT	223	Customer Service
RI	LS	112	Broker Prelicensing
			5
			s Required65-60 L COURSE REQUIREMENTS*
CTS	080		mputing Fundamentals
ENG	090		mposition Strategies
MAT			DMA 020, DMA 030, DMA 040, DMA 050, DMA 060,
171741			DMA 080
RED	080		ro to College Reading
			e e
*Deve	lopme	ntal cour	rsework (including all prerequisites) will be required of student

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

	Entrepreneurship • A25 Suggested Program Sequen		Lab	Clin/WkExp	Credit
Fall - 1st y	ear				
BUS 110	Introduction to Business	3	0	0	3
BUS 139	Entrepreneurship I	3	0	0	3
ENG 111	Expository Writing	3	0	0	3
ETR 220	Innovation & Creativity	3	0	0	3
ETR 230	Entrepreneur Marketing	3	0	0	3
	Total	15	0	0	15
Spring - 1s	t year				
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 245	Entrepreneurship II	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
ETR 215	Law for Entrepreneurs	3	0	0	3
MAT 115	Mathematical Models	2	2	0	3
OR MAT 161 College Algebra 3			0	0	3
and M	AT 161A College Algebra Lab	0	2	0	1
	Total	13/14	6	0	16/17
Fall - 2nd y	vear vear				
BUS 240	Business Ethics	3	0	0	3
ECO 251	Microeconomics	3	0	0	3
ENG 114	Professional Research & Reporting	g 3	0	0	3
Social	/Behavioral Science Elective	3	0	0	3
Entrep	preneurship Elective	3	0	0	3
Entrep	preneurship Elective	3	0	0	3
_	Total	18	0	0	18
Spring - 2n	d year				
BUS 253	Leadership & Management Skills	3	0	0	3
COE 110	World of Work	1	0	0	1
ETR 240	Funding For Entrepreneur	3	0	0	3
ETR 270	Entrepreneurship	3	0	0	3
Huma	nities/Fine Arts Elective	3	0	0	3
Entrep	preneurship Elective	3	0	0	3
•	Total	16	0	0	16
	Grand Total	62/63	6	0	65/66

#### Entrepreneurship - Cert. Prog. (C25490)

MAJO	DR COU	RSES:SHC		
BUS	139	Entrepreneurship		
BUS	245	Entrepreneurship II		
ETR	220	Innovation and Creativity		
ETR	230	Entrepreneur Marketing		
Total Credit Hours Required:16				

#### Entrepreneurship Certificate Suggested Day Sequence (C25490)

Fall - 1st year					
BUS 139 Entrepreneurship I ETR 220 Innovation & Creativity		3	0	0	3
ETR 220 Innovation & Creativity		3	0	0	3
ETR 230 Entrepreneur Marketing		3	0	0	3
, , ,	Гotal	9	0	0	9
Spring - 1st year					
Spring - 1st year BUS 245 Entrepreneurship II		3	0	0	3
]	Γotal	3	0	0	3
Grand T	Гotal	12	0	0	12

	Entrepreneurship - Diploma Program (D25490)					
GEN	ERAI	L EDUCATION COURSES:				SHC
Englis	h/Com	munications:				
ENG	111	Expository Writing				3
Social	/Behav	vioral Sciences:				
Electiv						3
		OURSES:				
ACC	120	Prin of Financial Acet				
BUS	110	Introduction to Business				
BUS BUS	139 245	Entrepreneurship I				
BUS	253	Entrepreneurship IILeadership and Mgt Skills				
COE	110	World of Work				
ECO	251	Prin of Microeconomics				
ETR	215	Law for Entrepreneurs				
ETR	220	Innovation and Creativity				
ETR	230	Entrepreneur Marketing				
ETR	270	Entrepreneurship Issues				3
Total	Credit	Hours Required:				38
		MENTAL COURSE REQUIREMENT				
CTS	080	Computing Fundamentals				3
ENG	090	Composition Strategies				3
RED	090	Improved College Reading				4
*Deve	lopme	ntal coursework (including all prerequis	ites) will be	requir	ed of	students
Englis	h, mat	nent test scores indicate a need for greater hematics, and computers. Please refer to	the Course	Desci	ription	ns section
for pre	erequis	ite course information.				
E	ntrep	reneurship Diploma Suggested	Day Sequ	ence	(D2	5490)
Fall -	1st y	ear				
BUS	110	Introduction to Business	3	0	0	3
BUS	139	Entrepreneurship I	3	0	0	3
ENG		Expository Writing	3	0	0	3
ETR			3	0	0	3
EIK	230	Entrepreneur Marketing Tota	_	-	-	-
<i>a</i> :		1011	1 12	0	0	12
	_	st year		_		
ACC		Principles of Financial Account	_	2	0	4
BUS	245	Entrepreneurship II	3	0	0	3
ETR	215	Law for Entrepreneurs	3	0	0	3

Spring - 2nd year COE 110 World of Work Social/Behavioral Science Elective Total **Grand Total** 

Total

ETR 220 Innovation & Creativity

## FIRE PROTECTION TECHNOLOGY A.A.S. Program (A55240)

The Fire Protection Technology curriculum is designed to provide individuals with technical and professional knowledge to make decisions regarding fire protection for both public and private sectors. It also provides a sound foundation for continuous higher learning in fire protection, administration, and management. Course work includes classroom and laboratory exercises to introduce the student to various aspects of fire protection. Students will learn technical and administrative skills such as hydraulics, hazardous materials, arson investigation, fire protection safety, fire suppression management, law, and codes. Graduates should qualify for employment or advancement in governmental agencies, industrial firms, insurance rating organizations, educational organizations, and municipal fire departments. Employed persons should have opportunities for skilled and supervisory-level positions within their current organizations.

GENI	ERAL E	DUCATION COURSES:	SHC			
English	English/Communications:					
ENG	111	Expository Writing	3			
ENG	114	Prof Research & Reporting	3			
	OR					
ENG	113	Literature-Based Research	3			
Human	ities/Fine	Arts:				
Electiv	e		3			
Natura	l Sciences	s/Mathematics:				
MAT	115	Mathematical Models	3			
OR						
MAT	140	Survey of Mathematics	3			
MAT	140A	Survey of Mathematics Lab.	1			
Social/	Behaviora	al Sciences:				
PSY	150	General Psychology	3			
MAJO	R COUR	RSES:				
CIS	110	Introduction to Computers	3			
FIP	120	Intro to Fire Protection	3			
FIP	124	Fire Prevention & Public Ed	3			
FIP	128	Detection & Investigation	3			
FIP	132	Building Construction				
FIP	136	Inspections & Codes				
FIP	144	Sprinklers & Auto Alarms				
FIP	148	Fixed & Port Exting Sys				
FIP	152	Fire Protection Law				
FIP	220	Fire Fighting Strategies				
FIP	224	Fire Instructor I & II				
FIP	228	Local Govt Finance				
FIP FIP	229 236	Fire Dynamics and Combust				
FIP	240	Emergency Management				
FIP	248	Fire Service SupervisionFire Svc Personnel Adm	3			
FIP	276	Managing Fire Services	3			
	2,0					
Total (	Credit H	ours Required 6	7-68			
		NTAL COURSE REQUIREMENTS*				
CTS	080	Computing Fundamentals	3			
ENG	090	Composition Strategies	3			
MAT		10, DMA 020, DMA 030, DMA 040, DMA 050				
RED	090	Improved College Reading				
LLL	370	improved conege reading				

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

#### Fire Protection Technology - Certificate (C5524001)

MAJ	OR COU	JRSES:		
FIP	220	Fire Fighting Strategies	3	
FIP	224	Fire Instructor I & II	4	
FIP	240	Fire Services Supervision	3	
FIP	248	Fire Services Personnel Admin.	3	
FIP	276	Managing Fire Services	3	
Total Credit Hours Required:				

Fire Protection Technology -	Cert. Sug. Seq. (C5524001)
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Fall	- 1st ye	ar					
				3	0	0	3
FIP	276	Fire Fighting Strategies Managing Fire Services		3	0	0	3
			Total	6	0	0	6
Spri	ng - 1st	year					
FĬP	224	Fire Instructor I & II		4	0	0	4
FIP	240	Fire Service Supervision		3	0 0 0	0	3
FIP	248	Fire Service Personnel Adm	in.	3	0	0	3
			Total	10	0	0	10
			Grand Total	16	0	0	16

	ire Protection Tech ggested Program S		ıv	р	in MILEVE	Credit
FIP 124 Fire I FIP 220 Fire I FIP 276 Mana	duction to Fire Prote Prevention & Public Fighting Strategies Iging Fire Services		33333333333333333333333333333333333333	0 0 0 0 Lab	0 0 0 0	3 3 3 3 3 3
Spring - 1st year	sitory Writing ction & Codes	Total	15	0 0	0 0 0	15
FIP 144 Sprin FIP 152 Fire I FIP 224 Fire I	klers & Auto Alarm Protection Law nstructor I & II luction to Computer		3 2 3 4 3	2 0 0 0	0 0 0 0	3 3 4 3
Summer - 1st yea MAT 115 Math OR MAT 14		Total natics	15 2 3	2 2 0	0 0 0	16 3 3
and MAT 14 ENG 114 Prof. OR ENG	0A Survey of Mathe Research & Reporti 113 Literature-Base	ematics Lab ng	2 3 0 3 3 3	2 0 0 0	0 0 0 0	3 1 3 3 3
Fall - 2nd year	ral Psychology	Total	8/9	2		9/10
FIP 128 Detection FIP 132 Build FIP 148 Fixed FIP 236 Emer	ction I Investigation ing Construction & Port Exting Sys gency Management Fine Arts Elective	stem	3 2 3 3	0 0 2 0 0	0 0 0 0 0	3 3 3 3
		Total	14	2	0	15
FIP 228 Local FIP 229 Fire I FIP 240 Fire S FIP 248 Fire S	Govt. Finance Dynamics & Combu Service Supervision Service Personnel Ac	st dmin.	3 3 3	0 0 0 0	0 0 0 0	3 3 3
	Gra	Total and Total	12 64/65	0 6	0	12 67/68
Fire Protection	Technology • A552		ed Prog	Seq	Ev	<u>ening</u>
	duction to Fire Prote Prevention & Public sitory Writing		3 3 3	0 0 0	0 0 0	3 3 9
FIP 144 Sprin	ction & Codes klers & Auto Alarr luction to Computer		9 3 2 3	0 0 2 0	0 0 0 0	3 3 3
	r Research & Repor 113 Literature-Base		8 3 3	2 0 0	0 0 0	9 3 3
PSY 150 Gene		Total	3	0	0	3 6
FIP 132 Build	ction I Investigation ing Construction & Port Exting Syst	1	3 3 2	0 0 2	0 0 0	3 3 3
Spring - 2nd year		Total	8	2	0	9
	Govt. Finance Dynamics & Combu		3 3 6	0 0	0	3
Summer - 2nd year MAT 115 Math OR MAT 14		Total natics	2 3	2 0	0 0 0	6 3 2
and MAT 14	0A Survey of Mathe	ematics Lab Total	0 2/3	2	0	1 3/4
	Fighting Strategies ging Fire Services	Takal	3	0	0	3
	Protection Law nstructor I & II	Total	6 3 4	0 0 0	0 0 0	6 3 4
Fall - 4th year FIP 236 Emer	gency Management /Fine Arts Elective	Total	7 3 3	0 0 0	0 0 0	7 3 3
Spring - 4th year		Total	6	0	0	6
FIP 240 Fire S FIP 248 Fire S	Service Supervision Service Personnel Ac		3 3	0	0	3
	Gra	Total and Total	8 64/65	0 6	0	8 67/68

#### FURNITURE UPHOLSTERY Certificate Program

Courses required to meet graduation requirements in this curriculum are offered during evening hours only. Minimum time for completion: two semesters full-time attendance. A certificate is awarded graduates of this curriculum. The Furniture Upholstery curriculum prepares the student to become a professional upholsterer. Students are taught the fundamentals and techniques of furniture upholstery work starting with wooden frames, pattern development, industrial cutting, and sewing skills. Production quality and speed will be emphasized. Upon successful completion of the Furniture Upholstery program, the student will be able to develop patterns, lay out and cut cloth, and operate various sewing machines. Students will also perform spring-up procedures and do the inside and outside of upholstered furniture. Graduates of the Furniture Upholstery program should qualify for positions as pattern makers, fabric cutters, upholstery sewers, spring-ups, upholsterers, or outsiders.

### FURNITURE UPHOLSTERY (Cutting and Sewing)

Day (C5022008)	•	<b>Evening (C5022037)</b>
MAJOR COURSES:		

SHC

MINOR COCKSES.	SHC
UPH 111 Cutting & Pattrn Makng I	3
UPH 112 Cutting & Pattrn Makng II	3
UPH 121 Sewing I	3
UPH 122 Sewing II	3
Upholstery Electives	
Students are required to take one (1) course from	the following:
UPH 123 Sewing III	3
UPH 131 Seat Construction I	3
All courses taught all semesters. Please see your advisor	

<b>Furniture Upholstery Cutting &amp; Sewing</b>
Suggested Dragram Seguence

		Suggested Progra	ım Sequence			/kExp	
Fall -	1st yea	r		Class	Lab	Clin/WkExp	Credit
UPH		Cutting & Pattern Makng I		1	4	0	3
UPH		Cutting & Pattern Makng II		1	4		
UPH	121	Sewing I		1		0	
UPH	122	Sewing II		1	4	0	3
	UPH	Program Elective		1	4	0	3
			Grand Total	5	20	0	15
Spring	g - 1st y	year (Major Courses/If not take	en in the Fall)				
UPH	111	Cutting & Pattern Makng I	,	1	4	0	3
UPH	112	Cutting & Pattern Makng II		1	4	0	
UPH	121	Sewing I		1	4	0	3
UPH	122	Sewing II		1	4	0	3
	UPH	Program Elective		1	4	0	3
			Grand Total	5	20	0	15

#### FURNITURE UPHOLSTERY (Upholstery) Day (C5022007) • Evening (C502236)

MAJOR COURSES:				SHC
UPH 131 Seat Construction I				3
UPH 141 Inside Upholstery I				3
UPH 151 Outside Upholstery I				
UPH 152 Outside Upholstery II				3
Upholstery Electives				3
Students are required to take one (1) courses from the following	owir	ıg:		
UPH 132 Seat Construction II				
UPH 142 Inside Upholstery II			3	
All courses taught all semesters. Please see your advisor for assi  Total Credit Hours Required			Clin/WkExp	15
Furniture Upholstery			ŽΚ	<b>-</b>
Suggested Program Sequence	Class	p	Ĭ.	S S S Credit
Fall - 1st year	$\Box$	Lab	$\Box$	Ü
UPH 131 Seat Construction II	1	4	0	3
UPH 141 Inside Upholstery I	1	4	Ö	3
UPH 151 Outside Upholstery I (First 8 weeks)	i			3
UPH 152 Outside Upholstery II (Second 8 weeks)	i	4	Ŏ	3
UPH Program Elective	1	4	0	3
· ·	_			
Grand Total	5	20	0	15
Spring - 1st year (Major Courses/If not taken in the Fall) UPH 131 Seat Construction II UPH 141 Inside Upholstery I UPH 151 Outside Upholstery I (First 8 weeks) UPH 152 Outside Upholstery II (Second 8 weeks) UPH Program Elective  Grand Total	1 1 1 1 1 5	4		3 3 3 3 3 15

#### GENERAL OCCUPATIONAL TECHNOLOGY A.A.S. Program (A55280)

The General Occupational Technology (GOT) curriculum provides individuals with an opportunity to upgrade their skills and earn an associate degree, diploma, or certificate by taking courses that offer specific job knowledge and skills.

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

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

All courses included in the GOT must be taken from approved Associate of Applied Science (AAS), diploma or certificate programs.

#### **GENERAL EDUCATION (15 SHC)**

Associate Degree programs must contain a minimum of 15 semester hours of general education coursework. The general education hours must include a minimum of 6 semester hours in communications and at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Diploma programs must contain a minimum of 6 semester hours of general education, 3 semester hours of which must be in communications. General education is optional in certificate programs.

#### **MAJOR COURSES (49 SHC)**

#### **Program Courses**

The General Occupational Technology Associate in Applied Science (AAS), diploma, and certificate programs must include courses which offer specific job knowledge and skills. The student must select and complete a minimum of 49 SHC from a combination of major courses for curriculums approved to be offered by the college. Work experience, including cooperative education, practicums, and internships, may be included in a degree program up to a maximum of 8 semester hours of credit, in a diploma up to a maximum of 4 semester hours credit, and in a certificate program up to a maximum of 2 semester hours of credit.

#### OTHER REQUIRED HOURS (0-7 SHC)

Local employer requirements, as well as college designated graduation requirements, may be accommodated in "other required hours". Up to a maximum of 7 semester hours of credit in other required hours may be included in an AAS degree program, 4 semester hours of credit in a diploma program, and 1 semester hour of credit in other required hours may be included in a certificate program. Any course in the Combined Course Library that is educationally relevant to the student's career objective may be used in other required hours, as long as it is not a restricted or unique course.

#### TOTAL SHC (64-76 SHC)

81

The total number of semester hour credit must include a minimum of 64 hours and a maximum of 76 hours.

#### **GRAPHIC ARTS & IMAGING TECHNOLOGY A.A.S. Program (A30180)**

Minimum time for completion: five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum. The Graphics Arts and Imaging Technology curriculum is designed to provide students with knowledge and skills necessary for employment in the printing, publishing, packaging, and related industries. Students will receive hands-on training in computer publishing, imaging technology, offset lithography, screen printing, and emerging printing technologies. Training may also include flexography, graphic design, and multimedia. Graduates should qualify for career opportunities within the printing and publishing industries.

GENERAL	EDUCATION COURSES: SHC
English/Com	munications:
ENG 111	Expository Writing
ENG 114 Humanities/F	Prof Research & Reporting
Elective	ine Arts:
	ices/Mathematics:
MAT 140	Survey of Mathematics 3
MAT 140A	A Survey of Mathematics Lab
Elective	107a1 Sciences
MAJOR CO BUS 110	Introduction to Business
GRA 121 GRA 151	Graphic Arts I         4           Computer Graphics I         2
GRA 151	* *
	Computer Graphics II
GRA 221 GRA 252	Graphic Arts II         4           Imaging Techniques         3
GRA 255	Image Manipulation I
GRA 256	Image Manipulation II
GRD 141	Graphic Design I
GRD 265	Digital Print Production 3
GRD 203	Multimedia Design I
MKT 120	Principles of Marketing 3
PRN 155	Screen Printing I
PRN 156	Screen Printing II
PRN 220	Offset Press Fundamentals 2
PRN 240	Print Estimating/Planning
116.	tive OR Co-op
_	ents are required to take 6 SHC from the following:
ART	=
BUS BUS	
BUS	
CIS	110 Introduction to Computers
COE GRD	
MKT	
MKT	
PHO	Fund of Photography5
OTHER RE	QUIRED COURSES:
ACA 111	College Student Success
	n: Qualified students may elect to take up to 6 credit hours of coopera- n in place of 6 hours Program electives.
Total Credit	t Hours Required66
DEVELOPM	MENTAL COURSE REQUIREMENTS*

Computing Fundamentals.

DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 ......5

(	Graphic Arts and Imaging Suggested Program			0180	Exp (	ı
Fall - 1st ye	ear.		Class	Lab	Clin/Wl	Credit
ACA 111 GRA 121 GRA 151 GRD 141 ENG 111	College Student Success Graphics Arts I Computer Graphics I Graphic Design I Expository Writing		1 2 1 2 3	0 4 3 4 0	0 0 0 0	1 4 2 4 3
a : .		Total	9	11	0	14
Spring - 1s GRA 152 GRA 255 PRN 155 PRN 220 ENG 114 Progra	Computer Graphics II Image Manipulation I Screen Printing I		1 1 1 1 3	3 3 3 0	0 0 0 0	2 2 2 2 3 3
		Total	7	12	0	14
MAT 140 MAT 140A	Introduction to Business	b	3 3 0	0 0 2	0 0 0	3 3 1
	Behavioral Science Electiv	re .	3	0	0	3
		Total	9	2	0	10
Fall - 2nd y GRA 252 GRA 256 GRD 265 GRD 271 MKT120	Imaging Techniques		1 1 1 1 3	4 3 4 3 0	0 0 0 0	3 2 3 2 3
		Total	7	14	0	13
		rk Experience	1 3 2 3	3 0 4 0	0 0 0 0	2 3 4 3 3
		Total	9	7	0	15
		Grand Total	41	46	0	66
ART 264, BI	lectives- Must be selected f US 125, BUS 137, BUS 153, C IKT 221, PHO 110.				142	2,

#### Graphic Arts and Imaging Technology Certificate • (C30180)

MAJO	R COU	JRSES:	SHC
GRA	121	Graphic Arts I	4
GRD	141	Graphic Design I	
GRA	151	Computer Graphics I	
GRA	152	Computer Graphics II	2
GRA	255	Image Manipulation I	2
PRN	155	Screen Printing I	2
Total (	Credit	Hours Required	16

#### Graphic Arts and Imaging Technology Certificate • (C30180) **Suggested Program Sequence Day**

Fall - 1st ye	ear					
GRA 121	Graphics Arts I Graphic Design I Computer Graphics I		2	4	0	4
GRD 141	Graphic Design I		2	4 4 3	0	4
GRA 151	Computer Graphics I		1	3	0	2
		TD 4 1	_	1.1	^	1.0
a		Total	5	11	U	10
Spring - 1st	year			_		_
GRA 152	Computer Graphics II		1	3 3 3	0	2
GRA 255	Image Manipulation I Screen Printing I		1	3	0	2
PRN 155	Screen Printing I		1	3	0	2
		Total	3	9	0	6
					-	
		Grand Total	8	20	0	16

CTS

**ENG** 

MAT

RED

080

090

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

#### HEALTH AND FITNESS SCIENCE (Pending) A.A.S. Program (A45630)

Courses required to meet graduation requirements in this curriculum are offered during day hours. Minimum time for completion: five semesters full-time attendance. The Associate of Applied Science degree is awarded graduates of this curriculum. The Health and Fitness Science curriculum is accredited by the Commission on Accreditation for Health and Fitness.

The Health and Fitness Science program is designed to provide students with the knowledge and skills necessary for employment in the fitness and exercise industry. Students will be trained in exercise science and be able to administer basic fitness tests and health risk appraisals, teach specific exercise and fitness classes and provide instruction in the proper use of exercise equipment and facilities. Graduates should qualify for employment opportunities in commercial fitness clubs, YMCA's/YWCA's, wellness programs in business and industry, Parks & Recreation Departments and other organizations implementing exercise & fitness programs.

GENI	ERAL	EDUCATION COURSES:	SHC
English	n/Comm	nunications:	
ENG	111	Expository Writing	
ENG OR	112	Argument-Based Research	3
ENG OR	113	Literature-Based Research	3
ENG	114	Prof Research & Reporting	3
Human	ities/Fi	ne Arts:	
Electiv	e		3
Natura	Scienc	es/Mathematics:	
MAT OR	115	Mathematical Models	3
MAT	140	Survey of Mathematics	3
MAT	140A	Survey of Mathematics Lab.	1
PSY	150	General Psychology	3
MAJO	R COL	URSES:	
BIO	155	Nutrition	3
BIO	168	Anatomy and Physiology I	4
BIO	169	Anatomy and Physiology II	4
HEA	112	First Aid & CPR	2
PSF	110	Exercise Science	
PSF	111	Fitness & Exer Testing I	
PSF	116	Pvnt & Care Exer Injuries	
PSF	118	Fitness Facility Mgmt	
PSF PSF	120 210	Group Exer Instruction	
PSF	210	Personal Training Exercise Programming	
PSF	212	Lifestyle Chng & Wellness	
		,	
	K MAJ	JOR COURSES:	1
COE PED	111	Coop Work Experience I	
PSF	114	Phys Fit Theory & Instr	
PSY	275	Health Psychology	
	_,_	3 63	
PED E	lectives PED		2
	PED	113 Aerobics I	
	PED	118 Weight Training II	
	PED	120 Walking for Fitness	
	PED	122 Yoga I	
OTHE	R REQ	QUIRED COURSES:	
COM	110	Introduction to Communication	3
		Hours Required	70/71
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*	
ENG	090	Composition Strategies	3
ENG	090A	Comp Strategies Lab	1
MAT		010, DMA 020, DMA 030, DMA 040, DMA 050	
RED	090	Improved College Reading	4

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Health and Fitness Science • A45630 Suggested Program Sequence Day						kExp	
Fall - ENG HEA PED PSF PSY	111 112 110 110 150	Expository Writing First Aid & CPR Fit And Well For Life Exercise Science		3 1 1 4 3	qap 0 2 2 0 0 0 0	0 0 0 0 0 0 Clin/WkExp	3 2 2 4 3 1
			Total	13	4	0	15
Spring ENG BIO BIO PSF PSF	9 - 1st ; 112 OR OR 168 155 111 114	year Argument-Based Researd ENG 113 Literature-Base ENG 114 Prof Research Anatomy and Physiology Nutrition Fitness & Exer Testing I Phys Fit Theory & Instr	ed Research & Reporting	3 3 3 3 4	0 0 0 3 0 2	0 0 0 0 0 0	3 3 4 3 4 4
			Total	16	5	0	18
Summ MAT	er - 1s 115 OR Hum	st year Mathematical Models MAT 140 Survey of Matl MAT 140A Survey of Ma anities/Fine Arts Elective		3 0 3	0 0 2 0	0 0 0 0	3 3 1 3
			Total	6	2	0	6/7
Fall - COE COM BIO PSF PSF	111 110 169 116 120	Coop Work Experience I Introduction to Commun Anatomy and Physiology Pvnt & Care Exer Injurie	' II	0 3 3 2 2 1	0 0 3 2 2 0	10 0 0 0 0 0	1 3 4 3 3 1
			Total	11	7	10	15
Spring PSF PSF PSF PSF PSF	g - 2nd 118 210 212 218 275	Fitness Facility Mgmt Personal Training	SS	4 2 2 3 3	0 2 2 2 0	0 0 0 0 0	4 3 3 4 3
			Total	14	6	0	17
			Grand Total	60	24	10	71/72

#### **HEALTH INFORMATION TECHNOLOGY A.A.S. Program (A45360)**

Courses required to meet graduation requirements in this curriculum are offered during day hours with selected courses offered during evening hours. Minimum time for completion: five semesters full-time attendance. The Associate of Applied Science degree is awarded graduates of this curriculum. The Health Information Technology curriculum is accredited by the Commission on Accreditation for Health Informatics and Information Management Education.

The Health Information Technology curriculum prepares individuals with the knowledge and skills to process, analyze, abstract, compile, maintain, manage, and report health information. Students will supervise departmental functions; classify, code and index diagnoses and procedures; coordinate information for cost control, quality management, statistics, marketing, and planning; monitor governmental and nongovernmental standards; facilitate research; and design system controls to monitor patient information security. Graduates of this program may be eligible to write the national certification examination to become a Registered Health Information Technician. Employment opportunities include hospitals, rehabilitation facilities, nursing homes, health insurance organizations, outpatient clinics. physicians' offices, hospice, and mental health facilities.

GENERAL English/Comm	EDUCATION COURSES:	SHC
ENG 111	Expository Writing	3
	/e	
	s are required to take one (1) course from the following:	
ENG 1	12 Argument-Based Research	
ENG 1	13 Literature-Based Research	
ENG 1		3
Humanities/Fir		
Elective	0.6.1	3
	es/Mathematics:	2
MAT 115	Mathematical Models	3
Social/Behavio		
PSY 150	General Psychology	3
MAJOR COU		
BIO 168	Anatomy and Physiology I	4
BIO 169	Anatomy and Physiology II	4
BUS 137	Principles of Management	
CIS 110 OR	Introduction to Computers	3
CIS 111	Basic PC Literacy	2
DBA 110	Database Concepts	
HIT 110	Fundamentals of HIM	
HIT 112	Health Law and Ethics	
HIT 114 HIT 122	Health Data Sys/Standards Prof Practice Exp I	
HIT 124	Prof Practice Exp II	
HIT 210	Healthcare Statistics	
HIT 211	ICD Coding	
HIT 214	CPT/Other Coding Systems	2
HIT 215	Reimbursement Methodology	2
HIT 216	Quality Management	2
HIT 220	Health Informatics & EHRs	
HIT 222 HIT 226	Prof Practice Exp III	
HIT 280	Professional Issues	
MED 121	Medical Terminology I	
MED 122	Medical Terminology II	3
Total Credit	Hours Required	70-71

Computing Fundamentals....

Improved College Reading .......4

DEVELOPMENTAL COURSE REQUIREMENTS*

	Health Information Technology • (A45360) Suggested Program Sequence Day							
Fall - 1st y	-ar		Class	Lab	Clin/WkExp	Credit		
ENG 111 MED 121 BIO 168 HIT 110 HIT 112 CIS 110		Info Mgmt	3 3 3 3 2 1	0 0 3 0 0 2 2	0 0 0 0 0 0	3 4 3 3 3 2		
Comina 1.	4	Total	16/17	5	0	18/19		
	Argument Based Research NG 113 Literature Based	Rèsearch	3	0	0	3		
MED 122 BIO 169 DBA 110	NG 114 Prof Research & R Med Term II Anatomy & Physiology I Database Concepts Health Data Sys/Standard	I	3 3 2 2	0 3 3 3	0 0 0 0	3 4 3 3		
C	l at	Total	13	9	0	16		
Huma	Prof Practice Exp I nities Elective Mathematical Models		0 3 2 3	0 0 2 0	3 0 0 0	1 3 3 3		
F-11 2-1		Total	8	2	3	10		
HIT 211 HIT 216 HIT 220	Healthcare Statistics ICD Coding Quality Management Health Informatics & EHI Principles of Disease	Rs	2 2 1 1 3	2 6 3 2 0	0 0 0 0 0	3 4 2 2 3		
Commission on One	4	Total	9	13	0	14		
HIT 222 HIT 214	Prof Practice Exp II Prof Practice Exp III CPT/Other Coding Syster Reimbursement Methodo	logy	0 0 1 1 3 2	0 0 3 2 0 0	3 6 0 0 0 0	1 2 2 2 3 2		
		Total	7	5	9	12		
	Grand	Total	53/54	34	12	70/71		

080

CTS

ENG MAT RED

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

#### HEALTH INFORMATION TECHNOLOGY Certificate Program (C45360)

Courses required to meet graduation requirements in this curriculum are offered during day hours with selected courses offered during evening hours. Minimum time for completion: two semesters part-time attendance. A certificate is awarded graduates of this curriculum.

MAJOI	R COURS	SES:	SHC	
CIS	110	Introduction to Computers	3	
OR				
CIS	111	Basic PC Literacy	2	
HIT	110	Fundamentals of HIM	3	
HIT	112	Health Law and Ethics	3	
HIT	114	Health Data Sys/Standards	3	
MED	121	Medical Terminology I	3	
MED	122	Medical Terminology II	3	
Total Credit Hours Required17-18				
DEVEI	OPMEN	TAL COURSE REQUIREMENTS*		
CTS RED	080 080	Computing Fundamentals		

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

#### Health Care Technology Cert. Prog. (C45360) Suggested Sequence

Fall - 2nd y	rear				
HIT 110	Fund of Health Information Mgmt	3	0	0	3
HIT 112	Health Law and Ethics	3	0	0	3
MED 121	Med Term I	3	0	0	3
	Total	9	0	0	9
Spring - 2n					
HIT 114	Health Data Sys/Standards	2	3	0	3
MED 122	Med Term II	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
OR	CIS 111 Basic PC Literacy	1	2	0	2
	Total	6/7	5	0	8/9
		0//	_		017
	Grand Total	15/16	5	0	17/18

#### HEALTHCARE MANAGEMENT TECHNOLOGY A.A.S. Program (A25200)

Core courses, those specific to Healthcare Management Technology, are offered during day hours, as well as distance learning opportunities. Most other courses required to meet graduation requirements are offered by the above methods and evening hours. Minimum time for completion: Day — five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum.

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 several certification examinations offered by healthcare management professional organizations.

	CRAL El	DUCATION COURSES: SHe	C
ENG	111	Expository Writing	3
ENG	114	Prof Research & Reporting.	3
	OR	ENG 112 Argument Based Research	3
	OR	ENG 113 Literature Based Research	3
	ities/Fine		
Elective	-		3
Natural MAT	Sciences 115	/Mathematics: Mathematical Models	3
		Il Sciences:	J
Elective			3
	R COUR		
ACC	120	Prin of Financial Accounting	4
ACC	121	Prin of Managerial Accounting	
CIS	110	Introduction to Computers	3
COE	XXX	Co-op Work Experience	2
CTS	130	Spreadsheet	
HMT	110	Intro to Healthcare Mgt	3
HMT	210	Medical Insurance	3
HMT	211	Long-Term Care Admin	3
HMT	212	Mgt of Healthcare Org	3
HMT	220	Healthcare Financial Mgmt	4
HMT	225	Practice Management Sim	3
MED	114	Prof Interac in Heal Care	1
MED	121	Medical Terminology I	3
MED	122	Medical Terminology II	3
OST	149	Medical Legal Issues	3
OST	247	Procedure Coding	2
OST	248	Diagnostic Coding	
OST	281	Emer Issues in Med Ofc	3
OTHE	R REQU	IRED COURSES:	
ACA	111	College Student Success	1
		ours Required6	8
		NTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
ENG MAT	090 DMA 01	Composition Strategies	5
RED	090	Improved College Reading	

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information

Health Car	e Management Technolog Suggested Program Se		SSI	0	Clin/WkExp	dit
Fall - 1st yea ACA 111 ACC 120 HMT 110 MED 114 MED 121 MED 122	College Student Success Prin of Financial Accoun Intro to Healthcare Mgt Prof Interac in Heal Care	1st Eight Wks	1 3 3 1 Class	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 Clii	1 4 3 1 3 3 3
Spring - 1st	vear	Total	14	2	0	15
ACC 121 CIS 110 HMT 210 OST 149 OST 281	Prin of Managerial According Intro to Computers	unting	3 2 3 3 3	2 2 0 0 0	0 0 0 0	4 3 3 3 3
Cummar 1	at waar	Total	14	4	0	16
	Expository Writing ities/Fine Arts Elective Behavioral Science Electiv	ve	3 3 3	0 0 0	0 0 0	3 3 3
Fall - 2nd ye	par	Total	9	0	0	9
CTS 130 ENG 112 OR OR	Spreadsheet	ed Research & Reporting	2 3 3 3	2 0 0 0	0 0 0 0	3 3 3
HMT 211 MAT 115 OST 247	Long-Term Care Admin Mathematical Models Procedure Coding	,	3 2 1	0 2 2	0 0 0	3 3 2
Coming 2 of	l	Total	11	2	0	15
Spring - 2nd HMT 212 HMT 220 HMT 225 OST 248 COE ***	Mgt. of Healthcare Org.		3 4 2 1 0	0 0 2 2 0	0 0 0 0 20	3 4 3 2 2
		Total	10	4	20	12
		Grand Total	58	12	20	68
HEALTHCARE MANAGEMENT TECHNOLOGY Healthcare Management Certificate Program (C25200 MAJOR COURSES: SE						

MAJU	K COU	JRSES:	SHC
HMT	110	Intro to Healthcare Mgt	3
HMT	210	Medical Insurance	3
HMT	211	Long-Term Care Admin	3
HMT	212	Mgt of Healthcare Org	3
MED	121	Medical Terminology I	3
MED	122	Medical Terminology II	3
		Hours RequiredENTAL COURSE REQUIREMENTS*	18
RED	080	Intro to College Reading	4

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions.

#### HealthCare Management Technology Cert. Prog. (C25200) **Suggested Sequence**

Fall - 1st year HMT 110 Intro to Healthcare Mgt MED 121 Medical Terminology I (1st 8 weeks) MED 122 Medical Terminology II (2nd 8 weeks)	3	0 0 0	0 0 0	3 3 3
Spring - 1st year Total	9	0	0	9
HMT 210 Medical Insurance HMT 211 Long-Term Care Admin HMT 212 Mgt of Healthcare Org	3 3 3	0 0 0	0 0 0	3 3 3
Total	9	0	0	9
Grand Total	18	0	0	18

#### HEALTHCARE MANAGEMENT TECHNOLOGY **Healthcare Receptionist** Certificate Program (C2520005)

		9 ( /	
MAJO	R COU	URSES:	SHC
HMT	110	Intro to Healthcare Mgt	3
HMT	210	Medical Insurance	
MED	114	Prof Interac in Heal Care	1
MED	121	Medical Terminology I	3
MED	122	Medical Terminology II	3
OST	149	Medical Legal Issues	3
Total (	Credit 1	Hours Required	16
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*	
RED	080	Intro to College Reading	4
whose reading	placemon, Englis	al coursework (including all prerequisites) will be requient test scores indicate a need for greater proficiency h, mathematics, and computers. Please refer to the Coursequisite course information	in the areas of
		Healthcare Management Technology Healthcare Receptionist (C2520005) Certificate Program Suggested Sequence	

Fall - 1	st year					
HMT	110	Intro to Healthcare Mgt	3	0	0	3
MED	121	Medical Terminology I (1st 8 weeks)	3	0	0	3
MED	122	Medical Terminology II (2nd 8 weeks)	3	0	0	3
~ ·		Total	9	0	0	9
	- 1st y					
MED	114	Prof Interac in Heal Care	1	0	0	1
HMT	210	Medical Insurance	3	0	0	3
OST	149	Medical Legal Issues	3	0	0	3
		Total	7	0	0	7
		Grand Total	16	0	0	16

### HEALTHCARE MANAGEMENT TECHNOLOGY Insurance Certificate Program (C2520004)

MAJO	R COU	JRSES:	SHC
HMT	110	Intro to Healthcare Mgt	3
HMT	210	Medical Insurance	3
MED	114	Prof Interac in Heal Care	1
MED	121	Medical Terminology I	3
MED	122	Medical Terminology II	3
OST	247	Procedure Coding	2
OST	248	Diagnostic Coding	2
Total (	Credit 1	Hours Required	17
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*	
RED	080	Intro to College Reading	4

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

#### HealthCare Management Technology Insurance (C2520004) **Certificate Program Suggested Sequence**

Fall - 1st year HMT 110 MED 121 MED 122	Intro to Healthcare Mgt Medical Terminology I (1st 8 Wks) Medical Terminology II (2nd 8 Wks)	3 3 3	0 0 0	0 0 0	3 3 3
Spring - 1st ye	Total	9	2	0	9
MED 114 HMT 210 OST 247 OST 248	Prof Interac In Heal Care Medical Insurance Procedure Coding Diagnostic Coding	1 3 1 1	0 0 2 2	0 0 0 0	1 3 2 2
	Total	6	4	0	8
	Grand Total	15	4	0	17

#### HORTICULTURE TECHNOLOGY **A.A.S. Program (A15240)**

Most courses required to meet graduation requirements in this curriculum are offered during day hours only. Selected courses are offered each semester via the Internet. Minimum time for completion: Day -- five semesters full-time attendance for the full curriculum; Evening -- three semesters for the certificate program option. The Associate in Applied Science Degree is awarded graduates of this curriculum. A certificate is awarded graduates of the certificate program option. Special University Articulation Agreement with North Carolina State University: NCSU may accept up to 15 semester credit hours in Horticulture from CVCC toward the Bachelor of Science in Horticulture Degree. A course grade of C or higher for each course is required. For details, call Darrell Kiser at extension 4238. CVCC has an 2 + 2 Articulation Agreement with N.C. Agricultural and Technological State University in Horticulture. These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study. Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses. Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination. A program that focuses on the general production and management of cultivated plants, shrubs, flowers, foliage, trees, groundcovers, and related plant materials; the management of technical and business operations connected with horticultural services; and the basic scientific principles needed to understand plants and their management and care.

GEN	ERAL ]	EDU	CATION COURSES:	SHC
Englis	h/Comm			
ENG	111	Ex	pository Writingof Research & Reporting	3
ENG	114	Pro	of Research & Reporting	3
	OR			
ENG	112	Ar	gument-Based Research	3
ENIC	OR		D 10 1	2
ENG	113		terature-Based Research	3
	nities/Fir			2
Electiv				3
			thematics:	2
MAT	115		athematical Models	3
	/Behavio			2
Electiv				3
	DR COU			
HOR	110	Int	ro to Landscaping	2
HOR	112	La	ndscape Design I	3
HOR	114 116	La	ndscape Construction	3
HOR HOR	118	La	ndscape Management Iuipment Op & Maint	د
HOR	134		eenhouse Operations	
HOR	160		ant Materials I	
HOR	162		oplied Plant Science.	
HOR	164		ort Pest Management	
HOR	166		ils & Fertilizers	
HOR	168		ant Propagation	
HOR	170	Ho	ort Computer Apps	2
HOR	213	La	ndscape Design II	3
HOR	215	La	ndscape Irrigation	3
HOR	260		ant Materials II	
HOR	265		lv Plant Materials	
HOR	273	Ho	or Mgmt & Marketing	3
TRF	110		ro Turfgrass Cult & ID	
Co-op	or Horti	culture	e Elective	4
	Please c	hoose	from the following:	
		XX	Co-op	1
	HOR 2		Interiorscapes	2
		20	Spanish for the Workplace	3
		20	Turfgrass Irrigat & Design	1
		25	Turfgrass Computer App	2
		30 40	Native Flora ID	
		50	Turfgrass Mgmt Safety	
		51	Landscape Drafting	
		52	Landscape Maintenance	
		210	Turfgrass Eqmt Mgmt	
		220	Turfgrass Calculations 2	
		230	Turfgrass Mgmt Apps 2	
		250	Golf/Sport Field Const	Ī
		260	Adv Turfgrass Mgmt	

Con't.

Horticulture Technology, Con't.

Total Credit Hours Required	•••••	•••••	•••••	70
ENG 090 Composition Strategies				3
RED 090 Improved College Reading				4
*Developmental coursework (including all prerequisites) w students whose placement test scores indicate a need for greathe areas of reading, English, mathematics, and computers. Course Descriptions section for prerequisite course information	ater j Plea	profi	cier fer	ncy in
Horticulture Technology • A15240			Clin/WkExp	Į.
Suggested Program Sequence Day Fall - 1st year	Class	Lab	Clin/	4 2 3 3 3 3 3
TRF 110 Intro Turfgrass Cult & ID HOR 118 Equipment Op & Maint	3 1 2 2 3	qe T 2 3 2 2 0	$_{0}^{0}$	4
HOR 162 Applied Plant Science HOR 166 Soils and Fertilizers	2	2	$0 \\ 0$	3
ENG 111 Expository Writing  Total	3 11	9	0	3 15
Spring - 1st year				
MAT 115 Mathematical Models HOR 168 Plant Propagation	2 2 2 2 1	2 2 2 2 2	0	3 3 3 2 3 3
HOR 160 Plant Materials I HOR 116 Landscape Management I	2	2	0	3
HOR 110 Intro To Landscaping ENG 114 Prof Research and Reporting (Preferred)	3	0	0	3
OR ENG 112 Argument-Based Research OR ENG 113 Literature-Based Research	3	0	$0 \\ 0$	3
Total Summer - 1st year	12	10	0	17
HOR 112 Landscape Design I HOR 114 Landscape Construction	2	3 2	0	3
HOR 260 Plant Materials II	2	2	0	3
Fall - 2nd year	6	7	0	9
HOR 170 Horticulture Computer Apps HOR 213 Landscape Design II	1 2	3 2 2	0	2 3 3 3 2
HOR 215 Landscape Irrigation HOR 134 Greenhouse Operations	2 2 2 3	2	0	3
HOR 273 Hort. Bus. Mgmt. Hort/Turf Elective OR Co-Op Work Exp	3	0	0	3 2
Spring 2nd year	10	9	0	16
Spring - 2nd year HOR 164 Horticulture Pest Management HOR 265 Advanced Plant Materials	2	2 2	0	3
Humanities/Fine Arts Elective	3	0	0	3 2 3 2 3
Hort/Turf Elective OR Co-Op Work Exp Social/Behavioral Science Elective	0	0	0	3
Total	9	4	0	13
Grand Total	48	39	0	70
HORTICULTURE TECHNOLOGY Cert. P	_			
MAJOR COURSES:				2
HOR 118 Equipment Op & Maint				3
HOR 168 Plant Propagation				3
HOR 255 Interiorscapes  Total Credit Hours Required				2
Horticulture Technology Cert. Prog. (C15240				
Fall - 1st year	, 5			_
HOR 110 Intro to Landscaping HOR 118 Equipment Op & Maint HOR 134 Greenhouse Operations	1 2	2 3 2 2	0 0	2 2 3 3
HOR 215 Landscape Imgation	2 2		0	
Total Spring - 1st year HOR 164 Horticulture Pest Management	6	9	0	10
HOR 168 Plant Propagation	2 2 1	2 2 2	$0 \\ 0$	3 3 2
	1	5	$\Omega$	2
HOR 255 Interiorscapes  Total	1 5	<ul><li>2</li><li>6</li></ul>	0	2 8

#### HORTICULTURE TECHNOLOGY Landscape Design

#### Diploma Program (D1524001)

		DUCATION COURSES: SE	łC
ENG		Expository Writing	.3
Natura	l Sciences	s/Mathematics:	
MAT	115	Mathematical Models	. 3
MAJO	R COUR	RSES:	
HOR	110	Intro to Landscaping	.2
HOR	112	Landscape Design I	. 3
HOR	114	Landscape Construction	
HOR	160	Plant Materials I	
HOR	162	Applied Plant Science	. 3
HOR	164	Hort Pest Management	. 3
HOR	166	Soils & Fertilizers	. 3
HOR	170	Hort Computer Apps	. 2
HOR	213	Landscape Design II	. 3
HOR	215	Landscape Irrigation	. 3
HOR	260	Plant Materials II	.3
HOR	265	Adv Plant Materials	. 2
Total (	Credit H	ours Required	39
DEVE	LOPME	NTAL COURSE REQUIREMENTS*	
ENG	090	Composition Strategies	
MAT		10, DMA 020, DMA 030, DMA 040, DMA 050	
RED	090	Improved College Reading	. 4

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

### Horticulture Technology - Landscape Design (D1524001)

Fall - 1st ye	Suggested S	Sequence	Class	Lab	Clin/WkExp	Credit
ENG 111 HOR 162 HOR 166 HOR 170 HOR 112 HOR 215	Expository Writing Applied Plant Science	pps	3 2 2 1 2 2	0 2 2 3 3 2	0 0 0 0 0	3 3 2 3 3
		Total	12	12	0	17
HOR 110 HOR 160	Mathematical Models Intro to Landscaping Plant Materials I Horticulture Pest Manage		2 1 2 2 1	2 2 2 2 2	0 0 0 0 0	3 2 3 3 2
		Total	8	10	0	13
Summer - 1 HOR 213 HOR 114 HOR 260	Landscape Design II Landscape Construction		2 2 2	2 2 2	0 0 0	3 3 3
		Total	6	6	0	9
		Grand Total	26	28	0	39

### HORTICULTURE TECHNOLOGY Landscape Management

	Diploma Program		)			
	AL EDUCATION COURSES:					SH
ENG 11	mmunications: 1 Expository Writing					
	ences/Mathematics:					
MAT 11	5 Mathematical Models					
MAJOR (	OURSES:					
HOR 11	0 Intro to Landscaping					
HOR 11						
HOR 11 HOR 11						
HOR 16						
HOR 16	2 Applied Plant Science					
MAJOR (	OURSES (CONT.):					
HOR 16 HOR 16						
HOR 21						
HOR 26	0 Plant Materials II					
HOR 26						
	urf/Horticulture Electivese choose from the following:					
COF	XXX					
HOI SPA	120 Spanish for the Workplace					
TRF	110 Intro Turfgrass Cult & ID				4	
TRF TRF						
TRE						
TRE	8					
TRF TRF						
TRF	152 Landscape Maintenance				3	
TRF TRF					3 د	
TRE	230 Turfgrass Mgmt Apps				2	
TRF TRF						
T 4 1 C						
	lit Hours Required		•••••	•••••	•••••	3//3
	PMENTAL COURSE REQUIREM					
ENG 09 MAT DI RED 09	MA 010, DMA 020, DMA 030, DMA	4 040, DMA 050				
placement t	ental coursework (including all prerequiest scores indicate a need for greater pross, and computers. Please refer to the Comation.	oficiency in the are	eas o	f reac	ling.	Engli
Hortic	ulture Technology - Landsca		ent	(D1	524	4002
	Suggested Sec	quence			Д	
					Clin/WkExp	
			SSI	0	n∕w	żġ
Fall - 1st	vear		Class	Lab	$\Box$	Credit
ENG 111	Expository Writing		3	0	0	3
HOR 118	Equipment Op & Maintenance	ee	1		0	2
HOR 162 HOR 166	Applied Plant Science Soils and Fertilizers		3 1 2 2 2	3 2 2 2	0	3 2 3 3 3
HOR 100 HOR 215	Landscape Irrigation		2	2	0	3
MAT 115	Math Models		$\bar{2}$	2	Ö	3
		otal	12	11	0	17
Spring -						
HOR 110	Intro to Landscaping		1	2	0	2
HOR 116 HOR 160	Landscape Management I Plant Materials I		2	2	0	3
HOR 164		nt	2	2	0	2 3 3 3
HOR 265	Advanced Plant Materials	-	1	2	0	2
Co-c	p or HOR Elective					1/2
	T	otal	8	10	0	14/1
Summer HOR 114	- 1st year Landscape Construction		2	2	0	3

4 4 0 6

Grand Total 24 25 0 37/38

Total

#### INDUSTRIAL SYSTEMS TECHNOLOGY

**A.A.S. Program (A50240)** 

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. Minimum time for completion: Day—four semesters full-time attendance; Evening—eight semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum.

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.

GENE	ERAL E	DUCATION COURSES:	SHC
English	/Commu	nications:	
ENG	111	Expository Writing	3
ENG	114	Prof Research & Reporting	3
	OR		
ENG	112	Argument-Based Research	3
	OR		
ENG	113	Literatured-Based Research	3
Human	ities/Fine	Arts:	
Electiv	e		3
		s/Mathematics:	
MAT	115	Mathematical Models	3
Social/	Behaviora	al Sciences:	
Electiv	e		3
MAJO	R COUR	RSES:	
BPR	111	Blueprint Reading	2
CIS	110	Introduction to Computers	3
OR			
CIS	111	Basic PC Literacy	2
ELC	112	DC/AC Electricity	5
ELC	113	Basic Wiring I	4
ELC	115	Industrial Wiring	
ELC	117	Motors and Controls	4
ELC	118	National Electrical Code	
ELC	119	NEC Calculations	
HYD	110	Hydraulics/Pneumatics I	
ISC	112	Industrial Safety	2
MAC	141	Machining Applications I	4
MAC	142	Machining Applications II	4
MNT	110	Intro to Maint Procedures	
WLD	112	Basic Welding Processes	
IST Pro	ogram Ele	ectives	9

Studer	its are red	quired to take a minimum of 9 SHC from the following:
AHR	110	Intro to Refrigeration5
AHR	112	Heating Technology4
AHR	113	Comfort Cooling4
COE	XXX	Co-op Work Experience 1-3
ELC	128	Intro to PLC3
ELN	229	Industrial Electronics4
MAC	122	CNC Turning
MAC	124	CNC Milling2
MAC	222	Advanced CNC Turning
MAC	224	Advanced CNC Milling2
WLD	110	Cutting Processes2
WLD	115	SMAW (Stick) Plate5
O	R	
	115AC	SMAW (Stick) Plate-AC
WLD	115BC	SMAW (Stick) Plate-BC2
WLD	115CC	SMAW (Stick) Plate-CC

**Co-op Option:** Qualified students may elect to take up to 3 credit hours of cooperative education in place of 3 hours Program Elective.

*		~	
<b>Total Credit Hours</b>	Required		66-67

DEVEI	LOPMENTAL COURSE REQUIREMENTS*	
	080 Computing Fundamentals	3
ENG	090 Composition Strategies	3
MAT	DMA 010, DMA 020, DMA 030, DMA 040, DMA 050	;
RED	090 Improved College Reading	ļ

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

	Industrial Systems Tec Suggested Program			)	Exp	
			Class	qı	O Clin/WkExp	2 Credit
Fall - 1st year				Lab	ū	Ü
BPR 111	Blueprint Reading		1	2		2
ELC 112	DC/AC Electricity		3 2	6	0	5 4
ELC 113	Basic Wiring I National Electrical Cod	9	1	6	0	2
ELC 118 ELC 119	NEC Calculations	C	1	2	0	2
		Total	8	18	0	15
Spring - 1st			_		_	
ELC 115	Industrial Wiring		2	6	0	4
ELC 117 ENG 111	Motors and Controls		2	6	0	4
MAT 115	Expository Writing Mathematical Models		2	2	0	3
	rogram Elective		3	0	0	3
		Total	12	14	0	17
G 1						
Summer - 1	year vioral Science Elective		2	0	Λ	2
	Fine Arts Elective		3	0	0	3
riumamues/i	rille Arts Elective		3	U	U	3
		Total	6	0	0	6
Fall - 2nd ye	ar					
ISC 112			2	0	0	2
MAC 141	Machining Applications	s I	2	6	0	4
MAC 142	Machining Applications		2	6	0	4
MNT 110	Intro to Maint Procedur		1	3	0	2
IST P	rogram Elective		3	0	0	3
G : 0 1		Total	10	15	0	15
Spring - 2nd CIS 111	Basic PC Literacy		1	2	0	2
	CIS 110 Introduction to Co	amputara	2	2	0	3
ENG 114	Prof. Research & Report			0	0	3
OR	ENG 112 Argument-Ba		3	0	0	3
OR	ENG 112 Algument-Ba		3	0	0	3
HYD 110	Hydraulics/Pneumatics		2	3	0	3
WLD 112	Basic Welding Processe		1	3	0	2
	rogram Elective	5	3	0	0	3
		Total 10	/11	0	0	12/14
			/11	8	0	13/14
	Gra	and Total 46/	47	55	0	66/67

**Co-op Option:** Qualified students may elect to take up to 3 credit hours of cooperative education in place of 3 hours of Program Elective.

Industrial Systems Technology • A50240 Suggested Program Sequence Evening						
Fall - 1st ye	ar		Class	Lab	Clin/WkExp	Credit
ELC 113 ELC 118	Basic Wiring I National Electrical Code Mathematical Models		2 1 2	6 2 2	0 0 0	4 2 3
~		Total	5	10	0	9
ELC 119	year DC/AC Electricity NEC Calculations Blueprint Reading		3 1 1	6 2 2	0 0 0	5 2 2
Eall 2nd r	200	Total	5	10	0	9
	Motors and Controls ogram Elective		2 3	6	0	4 3
g : 2	1	Total	5	6	0	7
	d year Industrial Wiring ogram Elective		2 3	6	0	4 3
T 11 A 1		Total	5	6	0	7
MNT 110	ear Expository Writing Intro to Maint Procedures Behavioral Science Elective	e	3 1 3	0 3 0	0 0 0	3 2 3
		Total	7	3	0	8
OR C	l year Basic PC Literacy IS 110 Introduction to Com Prof. Research & Reporting ENG 112 Argument-Based ENG 113 Literature-Based	(Preferred)3 Research	3	2 2 0 0 0	0 0 3 0 0	2 3 3 3
HYD 110	Hydraulics/Pneumatics I		2	3	0	3
Fall - 4th ye	ear Industrial Safety	Total	6/7	0	0	8/9
MAC 141	Machining Applications I Basic Welding Processes		1	6	0	4 2
Coming Adle		Total	5	9	0	8
IST Pr	Machining Applications II ogram Elective iities/Fine Arts Elective		2 3 3	6 0 0	0 0 0	4 3 3
		Total	8	6	0	10
	Gra	nd Total	46/47	55	0	66/67

**Co-op Option:** Qualified students may elect to take up to 3 credit hours of cooperative education in place of 3 hours of program elective.

**Program electives:** The student is required to take a minimum of 9 credits from this list.

AHR	110	Intro to Refrigeration	2	6	0	5	
AHR	112	Heating Technology	2	4	0	4	
AHR	113	Comfort Cooling	2	4	0	4	
COE	Co-op Wor	k Experience	0	0	10	1/3	
ELC	128	Intro to PLC	2	3	0	3	
ELN	229	Industrial Electronics	2	4	0	4	
MAC	122	CNC Turning	1	3	0	2	
MAC	124	CNC Milling	1	3	0	2	
MAC	222	Advanced CNC Turning	1	3	0	2	
MAC	224	Advanced CNC Milling	1	3	0	2	
WLD	110	Cutting Processes	1	3	0	2	
WLD	115	SMAW (Stick) Plate	2	9	0	5	
WLD	115AC	SMAW (Stick) Plate-AC	1	3	0	2	
WLD	115BC	SMAW (Stick) Plate-BC	1	3	0	2	
WLD	115CC	SMAW (Stick) Plate-CC	0	3	0	1	

### INFORMATION SYSTEMS SECURITY A.A.S. Program (A25270)

Courses required to meet graduation requirements in this curriculum are offered during day and evening hours. The Associate in Applied Science is awarded graduates of this curriculum.

Information Systems Security covers a broad expanse of technology concepts. This curriculum provides individuals with the skills required to implement effective and comprehensive information security controls. Course work includes networking technologies, operating systems administration, information policy, intrusion detection, security administration, and industry best practices to protect data communications. Graduates should be prepared for employment as security administrators. Additionally, they will acquire the skills that allow them to pursue security certifications.

		EDUCATION COURSES: SHC
		inications:
ENG	111	Expository Writing
ENG	114	Prof Research & Reporting
ENIC	OR	The state of the s
ENG	113	Literatured-Based Research
Human Electiv	nities/Fine	e Arts:
Natura	l Science	s/Mathematics:
	140	Survey of Mathematics
MAT	140A	Survey of Mathematics Lab1
O	R	
MAT	161	College Algebra
MAT	161A	College Albegra Lab1
Social/	Behavior	ral Sciences:
Electiv	-	3
MAJO	R COUI	RSES:
CIS	110	Introduction to Computers
CIS	115	Intro to Prog & Logic
CTS	115	Info Sys Business Concept
DBA	110	Database Concepts
NET	125	Networking Basics
NET	126	Routing Basics
NET	175	Wireless Technology3
NET	225	Routing & Switching I
NET	226	Routing & Switching II
NOS	110	Operating System Concepts
NOS	120	Linux/UNIX Single User
NOS	130	Windows Single User
SEC	110	Security Concepts
SEC	150	Secure Communications
SEC	160	Secure Admin I
SEC	210	Intrusion Detection
SEC	220	Defense-In-Depth
SEC	240	Wireless Security
SEC	289	Security Capstone Project
	0 "	

**Co-op Option:** Qualified students may elect to take up to 3 credit hours of cooperative education in place of SEC 240.

Total Credit Hours Required:	3
DEVELOPMENTAL COURSE REQUIREMENTS*	

CTS	080	Computing Fundamentals	3
ENG	090	Composition Strategies	3
MAT	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050	5
RED	090	Improved College Reading	4

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Information Systems Security • A25270 Suggested Program Sequence Day  Seq. J.						INFORMATION SYSTEMS SECURITY Operating System Security Certificate Certificate Program (C2527003)
Fall - 1st year CIS 110 Introduction to Com CIS 115 Intro to Prog & Log SEC 110 Security Concepts NET 125 Networking Basics DBA 110 Database Concepts	ic & Apps	2 2 2 1 2	2 3 2 4 3	0 0 0 0	3 3 3 3	MAJOR COURSES:         SHC           NET         125         Networking Basics         3           NOS         110         Operating System Concepts         3           NOS         120         Linux/UNIX Single User         3           NOS         130         Windows Single User         3           SEC         110         Security Concepts         3
Spring - 1st year NET 126 Routing Basics CTS 115 Info Sys Business C NOS 110 Operating System C ENG 111 Expository Writing Humanities/Fine Arts Elect	concepts	9 1 3 2 3 3		0 0 0 0 0	15 3 3 3 3 3	SEC 150 Secure Communications
Summer - 1st year ENG 114 Prof Researach & R OR ENG 113 Literature MAT 140 Survey of Math OR MAT 161 College A MAT 140A Survey of Math Lai	-Based Research	3	7 0 0 0 0 2	0 0 0 0	15 3 3 3 1	Fall - 1st year SEC 110 Security Concepts 3 0 0 3 NET 125 Networking Basics 1 4 0 3 NOS 110 Operating System Concepts 2 3 0 3  Total 6 7 0 9 Spring - 1st year
OR MAT 161 College A MAT 161A College Social/Behavioral Science Fall - 2nd year SEC 160 Secure Admin I	lgebra Albegra Lab Elective Total	3 0 3 9	0 2 0 2	0 0 0 0	3 1 3 10	SEC 150       Secure Communication       2 2 0 3         NOS 120       Linux/UNIX Single User       2 2 0 3         NOS 130       Windows Single User       2 2 0 3         Total       6 6 0 9         Grand Total       12 13 0 18
NET 226 Routing & Switching SEC 220 Defense-in-Depth  Spring - 2nd year	g I (1st eight week) g II (2nd eight week) Total	1 2 8	4 2 14	0 0 0 0	3 3 3 15	INFORMATION SYSTEMS SECURITY Wireless Security Certificate
NOS 120 Linux/UNIX Single NOS 130 Windows Single Us SEC 150 Secure Communica Intrusion Detection Wireless Security OR COE Co-op Option SEC 289 Security Capstone F	er tions	2 2 2 1 11			3 3 3 3 3 3 18 73	Certificate Program (C2527004)           MAJOR COURSES:         SHC           NET         125         Networking Basics         3           NET         126         Routing Basics         3           NET         175         Wireless Technology         3           SEC         110         Security Concepts         3           SEC         150         Secure Communications         3           SEC         240         Wireless Security         3
INFORMATION Network Security Certi MAJOR COURSES:				70	01) SHC	Information Systems Security Wireless Security Certificate (C2527004) Suggested Sequence
NET 125 Networking Basics. NET 126 Routing Basics SEC 110 Security Concepts. SEC 160 Secure Admin I SEC 210 Intrusion Detection					3 3 3 3	Fall - 1st year SEC 110 Security Concepts 2 2 0 3 NET 125 Networking Basics 1 4 0 3  Total 3 6 0 6 Spring - 1st year NET 126 Routing Basics 1 4 0 3
<b>Network Security Cert.</b>	Systems Security - (C2527001) Sugges		eque	nce	<b>.</b>	SEC 150   Secure Communication   2   2   0   3
Fall - 1st year SEC 110 Security Concepts NET 125 Networking Basics	Total	2 1 3	2 4 6	0 0 0	3	NET 175 Wireless Technology 2 2 0 3  Total 2 2 0 3
Spring - 1st year NET 126 Routing Basics Fall - 2nd year SEC 160 Secure Admin I SEC 220 Defense-In-Depth	Total	1 1 2 2	4 4 2 2	0 0 0 0	3 3 3	Spring - 2nd year       2       2       0       3         SEC 240       Wireless Security       2       2       0       3         Total       2       2       0       3         Grand Total       10       16       0       18
Spring - 2nd year SEC 210 Intrusion Detection	Total Total	2 4 2 2	2 4 2 2	0 0 0	6 3 3	

10 16 0 18

91

Grand Total

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#### MECHANICAL ENGINEERING TECHNOLOGY A.A.S. Program (A40320)

Courses required to meet graduation requirements in this curriculum are offered during day hours only. Minimum time for completion: four semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum.

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.

GENI	ERAL E	EDUCATION COURSES: SHC						
Englisl	h/Commu	inications:						
ENG	111	Expository Writing						
ENG	114	Prof Research & Reporting						
	OR							
ENG	112	Argument-Based Research						
Livo	OR	Inguinon Buseu Itessualer						
ENG	113	Literature-Based Research						
Humar	nities/Fine							
Electiv	e	3						
	-	s/Mathematics:						
MAT	121							
		ral Sciences:						
Electiv								
Electiv	re	3						
MAJO	R COU	RSES:						
CSC	134	C++ Programming3						
DFT	111	Technical Drafting I2						
DFT	111A	Technical Drafting I Lab						
DFT	151	CAD I						
DFT	152	CAD II						
MAT	122	Algebra/Trigonometry II						
MEC	111	Machine Processes I						
MEC	180	Engineering Materials						
MEC	237 250	Instr and Control Systems						
MEC MEC	265	Statics & Strength of Mat						
MEC	203	Fluid Mechanics 3 Machine Design 4						
MEC	270	Dynamics 3						
PHY	131	Physics-Mechanics 4						
PHY	131	Physics-Elec & Magnetism 4						
WLD	112	Basic Welding Processes 2						
		Qualified students may elect to take up to 4 credit hours of coop-						
	•	n in place of MEC 270.						
	•							
Total	Credit H	Iours Required65						

Improved College Reading

DEVELOPMENTAL COURSE REQUIREMENTS*

	Mechanical Engineering T Suggested Program			320	kExp	
F 11 1 .			Class	Lab	Clin/WkExp	Credit
Fall - 1st ye			2	3	0	3
DFT 151	CAD I		2	3	0	3
ENG 111	Expository Writing		3	0	0	3
MAT 121	Algebra/Trigonometry I		2	2	0	3
MEC 180	Engineering Materials		2	3	0	3
		Total	11	11	0	15
Spring - 1s				2	0	2
DFT 111	Technical Drafting I Technical Drafting I Lab		1	3	0	2
ENG 114	Prof. Research and Reportin	ng (Preferred)	3	0	0	3
OR	-		3	0	0	3
OR	ENG 113 Literature-Based		3	0	0	3
	Algebra/Trigonometry II		2	2	0	3
WLD 112	Basic Welding		1	3	0	2
Huma	nities/Fine Arts Elective		3	0	0	3
		Total	10	11	0	14
Summer - 1 Social	lst year /Behavioral Science Electiv	/e	3	0	0	3
		Total	3	0	0	3
Fall - 2nd y						
DFT 152			2	3	0	3
MEC 250			3	2	0	4 5
MEC 250 PHY 131	Statics & Strength of Mat Physics-Mechanics		3	<i>3</i>	0	3 4
1111 131	Thysics-Mechanics		3	4	U	4
Spring 2m	dayaan	Total	12	10	0	16
Spring - 2n MEC 111	-		2	3	0	3
MEC 111 MEC 265			2	2	0	3
MEC 270			3	3	0	
MEC 272	Dynamics		2	2	0	3
PHY 132	Physics-Elec & Magnetism	n	3	2	0	4
		Total	12	12	0	17
		Grand Total	48	44	0	65

**Co-op Option:** Qualified students may elect to take up to 4 credit hours of cooperative education in place of MEC 270.

ENG MAT RED

090

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

#### MEDICAL OFFICE ADMINISTRATION Diploma Program (D25310)

This curriculum prepares individuals for employment in medical and other health-care related offices. Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments. Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

GENI	ERAL	EDUCATION COURSES:	SHC
Englisl	h/Comn	nunications:	
ENG		Expository Writing	3
Social/	Behavi	oral Sciences:	
Electiv	re		3
MAJO	R COU	URSES:	
CIS	110	Introduction to Computers	3
HMT	110	Intro to Healthcare Mgt	3
MED	114	Prof Interaction in HC	1
MED	121	Medical Terminology I	3
MED	122	Medical Terminology II	3
OST	132	Keyboard Skill Building	2
OST	136	Word Processing	3
OST	148	Med Coding Billing & Insu	3
OST	149	Medical Legal Issues	3
OST	164	Text Editing Applications	
OST	243	Med Office Simulation	
OST	247	Procedural Coding	2
OST	248	Diagnostic Coding	2
OST	281	Emer Issues in Med Ofc	3
Total (	Credit 1	Hours Required:	43
DEVE	LOPMI	ENTAL COURSE REQUIREMENTS	
CTS	080	Computing Fundamentals	3
ENG	090	Composition Strategies	
RED	090	Improved College Reading	

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Medical Office Administration • D25310 Suggested Program Sequence Day								
Fall - 1st y	Class	Lab	Clin/WkExp	Credit				
HMT 110	Intro to Healthcare Mgt	3	0	0	3			
MED 121	Medical Terminology I (1st Eight Wks)		0	0	3			
MED 122	Medical Terminology II (2nd Eight Wks)		0	0	3			
OST 132	Keyboard Skill Building	1	2	0	2			
OST 136	Word Processing	2	2	0	3			
OST 164	Text Editing Applications	3	0	0	3			
	Total	15	4	0	17			
Spring - 1s	st year							
CIS 110	Introduction to Computers	2	2	0	3			
MED 114	Prof Interac in Heal Care	1	0	0	1			
OST 148	Med Coding Billing & Insu (1st 8 Wks)	3	0	0	3			
OST 243	Med Office Simulation (2nd 8 Wks)	2	2	0	3			
OST 247	Procedure Coding	1	2	0	2			
OST 248	Diagnostic Coding	1	2	0	2			
OST 281	Emer Issues in Med Ofc	3	0	0	3			
	Total	13	8	0	17			
Summer -	1st year							
OST 149	Medical Legal Issues	3	0	0	3			
ENG 111	Expository Writing	3	0	0	3			
Socia	l/Behavioral Science Elective	3	0	0	3			
	Total	9	0	0	9			
	Grand Total	37	12	0	43			

#### NETWORKING TECHNOLOGY A.A.S. Program (A25340)

Courses required to meet graduation requirements in this curriculum are offered during the day and online. Minimum time for completion: Day--five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum.

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 entrylevel 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.

				SHC
		mun	nications:	2
ENG	111		Expository Writing	
ENG	114 OR		Prof Research & Reporting	3
ENG	113		Literature-Based Research	3
	nities/	Fine 2		
Electi		,	0.6.1	3
			Mathematics:	2
MAT MAT	140 140		Survey of Mathematics Lab.	3
MAI		А	Survey of Mathematics Lab	I
MAT	161		College Algebra	3
MAT	161	A	College Algebra Lab	1
Social	l/Behav	vioral	l Sciences:	
Electi	ve			3
MAJ	OR CO	OUR	SES:	
CIS	110	Int	troduction to Computers	3
CIS	115	Int	tro to Prog & Logic	3
COE	XXX		p-op Work Experience	
CTS	115		fo Sys Business Concept	
CTS	120		ardware/Software Support	
CTS DBA	286 110		etwork Support	
NET	125		atabase Conceptsetworking Basics	
NET	126		outing Basics	
NET	225		outing & Switching I	
NET	226		outing & Switching II	
NET	240		etwork Design	
NOS	110		perating System Concepts	
NOS	120		nux/UNIX Single User	
NOS	130	Wi	indows Single User	3
SEC	110	Sec	curity Concepts	3
Serve	r Opera	ating	System Electives	6
	Studen	nts m	nust select one set of courses from the following:	
	NOS			
	NOS		Linux/UNIX Admin II	
	O			
	NOS			
	NOS	231		
Netwo			tive	3
			nust select one course from the following:	
	CIS NET	277 175	5 · I	
	NET	270		
	NET	271	Remote Access Networks	
	NET	272		
	NET	273	Internetworking Support	
	NOS	222		
	NOS	232		
	NOS	240	- 10 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	NOS SEC	244 150	operating of stem 110/100 initiality	
	SEC	160		
	SEC	100	Secure Admin 1	

Total Credit Hours Required .......72

Con't.

#### Networking Technology, Con't.

DEVE	LOPM	IENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
ENG	090	Composition Strategies	3
MAT	DMA	. 010, DMA 020, DMA 030, DMA 040, DMA 050	5
RED	090	Improved College Reading	4

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

	Networking Technology • A25340 Suggested Program Sequence Day			o Clin/WkExp	Į.
Fall 1ct ve	ar	2 Class	ap	lin/	S S Credit
Fall - 1st ye NOS 110	Operating System Concepts	S	2 Lab	C	$\mathcal{I}$
NET 125	Networking Basics	1	4		3
SEC 110	Security Concepts	2			3
CIS 115	Intro to Prog & Logic	2			3
CIS 110	Introduction to Computers	2	2	0	3
C15 110	introduction to computers	-	-	Ů	,
	Total	9	14	0	15
Spring - 1st	year				
CTS 120	Hardware/Software Support	2	3	0	3
NET 126	Routing Basics	1	4	0	3
NET 240	Network Design	3		0	3
NOS 120	Linux/UNIX Single User	2		0	
	Windows Single User	2		0	3
Huma	nities/Fine Arts Elective	3	0	0	3
	Total	13	11	0	18
Summer - 1	2				
	Expository Writing	3	0	0	3
	Survey of Mathematics	3		0	
	Survey of Mathematics Lab	0	2		
	AT 161 College Alegbra	3	0		3
	AT 161A College Alegbra Lab	0	2	0	
Social	Behavioral Science Elective	3	0	0	3
F 11 2 1	Total	9	2	0	10
Fall - 2nd y		1	4	0	2
NET 225 NET 226	Routing & Switching I (First eight weeks) Routing & Switching II (See eight wks)	1 1	4 4	0	3
	Database Concepts	2			
	Windows Admin I	2			3
	OS 220 Linux/UNIX Admin I	2	2	0	3
OIC IV	OU 220 Eman OT WITH MINIT	-	-	Ů	,
	Total	6	13	0	12
Spring - 2n	d year				
	Network Support	2	2	0	3
Netwo	rking Elective	3	0	0	3
COE	Co-op Work Experience	0	0	20	2
ENG 114	Prof Research & Reporting	3	0	0	3
OR	ENG 113 Literature-Based Research	3	0	0	3
CTS 115	Info Sys Business Concept	3	0	0	3
NOS 231	Windows Admin II	2	2	0	3
OR N	OS 221 Linux/UNIX Admin II	2	2	0	3
	Total	13	4	20	17

Grand Total 50 44 20 72

# NETWORKING TECHNOLOGY

MAJOR COURSES: SHC   NET   125   Networking Basics	CCNA - Cisco Certifica			iate		
NET   125		IIII (C2354001	J			SHC
Networking Technology - CCNA Cert. (C2534001) Suggested Seq.   Day	NET     125     Networking Basics       NET     126     Routing Basics       NET     225     Routing & Switching I					3
Fall - 1st year	Total Credit Hours Required	•••••		•••••		12
NET 125		rt. (C2534001) Su	ıgg	este	l Se	eq. <u>Day</u>
Spring - 1 st year		Total	-	-		
Total		Total	•			
NET 225	_	Total	-			
Total	NET 225 Routing & Switching I (Fi				-	
Fall - 1st year  NET 125 Networking Basics	THE TELEVISION OF THE TELEVISI	Total	2	8	0	6
NET 125	Networking Technology - CCNA Cert	t. (C2534001) Sug	gge	sted	Se	q. <u>Night</u>
NET 126			1	4	0	3
NET 225	- C	T-4-1	1	4	0	3
NET 226   Routing & Switching II (Second eight weeks)   1	Spring - 1st year	Iotal	2	8	0	6
NETWORKING TECHNOLOGY   CCNP - Cisco Certified Network Professional Certificate Program (C2534002)   (Students must have CCNA certificate or equivalent.)		ond eight weeks)	1	4	0	3
CCNP - Cisco Certified Network Professional Certificate Program (C2534002) (Students must have CCNA certificate or equivalent.)    MAJOR COURSES: SHC   NET 270   Building Scalable Networks   3   3   3   3   3   3   3   3   3			_		-	
Networking Technology - CCNP   Certificate (C2534002) - Suggested Sequence Day	CCNP - Cisco Certified Certificate Progra (Students must have CCNA)  MAJOR COURSES:  NET 270 Building Scalable Network  NET 271 Remote Access Networks  NET 272 Multi-Layer Networks  NET 273 Internetworking Support	Network Profes am (C2534002 certificate or equi	ssio l) val	ent.)		3 3 3
Certificate (C2534002) - Suggested Sequence Day         Fall - 1st year       NET 270       Building Scalable Networks       1       4       0       3         NET 270       Total       1       4       0       3         Spring - 1st year       1       4       0       3         NET 271       Remote Access Networks       1       4       0       3         Fall - 2nd year         NET 272       Multi-Layer Networks       1       4       0       3	_		••••	•••••	•••••	12
NET 270       Building Scalable Networks       1       4       0       3         Spring - 1st year       Total       1       4       0       3         NET 271       Remote Access Networks       1       4       0       3         Fall - 2nd year         NET 272       Multi-Layer Networks       1       4       0       3			nce	e Da	y	
Spring - 1st year       1       4       0       3         NET 271       Remote Access Networks       1       4       0       3         Fall - 2nd year       NET 272       Multi-Layer Networks       1       4       0       3	Fall - 1st year NET 270 Building Scalable Network					
Fall - 2nd year NET 272 Multi-Layer Networks 1 4 0 3	Spring - 1st year NET 271 Remote Access Networks		1	4	0	3
					0	3

#### **NETWORKING TECHNOLOGY Operating Systems Certificate Program (C2534004)**

Operating Systems Certifica	ate Program	(C2	2534	100	4)
MAJOR COURSES:					SHC
NOS 110 Operating System Concepts NOS 120 Linux/UNIX Single User					3
NOS 130 Windows Single User NOS 230 Windows Admin I					3
NOS 240 Novell Admin I					3
NOS 244 Operating System AS/40 <b>Total Credit Hours Required</b>					
Operating Systems Certificate (C2					
Fall - 1st year					
NOS 110 Operating Systems Concepts	Total	2 2	3	0	3
Spring - 1st year NOS 130 Windows Single User	Total	2	2	0	3
NOS 130 Windows Single User NOS 120 Linux/UNIX Single User		2	2	0	3
Fall - 2nd year	Total	4	4	0	6
NOS 230 Windows Admin I NOS 240 Novell Admin I		2 2	2	0	3
Spring - 2nd year	Total	4	4	0	6
NOS 244 Operating System - ASS400		2	2	0	3
	Total Grand Total	2 12	2 13	0	3 18
	Grana Total	12	13	Ů	10
NETWORKING T			00 <i>5</i>	`	
RED HAT Certificate P	rogram (C2	334	บบอ	,	CHC
MAJOR COURSES: NOS 110 Operating System Concepts	S				<b>SHC</b> 3
NOS 120 Linux/UNIX Single User NOS 220 Linux/UNIX Admin I					3
NOS 221 Linux/UNIX Admin II					3
NOS 222 Linux/UNIX Admin III  Total Credit Hours Required					
Red Hat Certificate (C25340					
Fall - 1st year	os) suggest	iu se	que		,
NOS 110 Operating System Concepts	Total	2 2	3	0	3
Spring - 1st year NOS 120 Linux/UNIX Single User	Total	_	2		
	Total	2	2	0	3
Fall - 2nd year NOS 220 Linux/UNIX Admin I		2	2	0	3
Spring - 2nd year	Total	2	2	0	3
NOS 221 Linux/UNIX Admin II	Total	2 2	2	0	3
Fall - 3rd year NOS 222 Linux/UNIX Admin III		2	2	0	3
	Total	2	2	0	3
	Grand Total	10	11	0	15
NETWORKING T					
Windows Server Certificat	e Program	(C25	534(	)03	_
MAJOR COURSES: NOS 110 Operating System Concepts	S				<b>SHC</b>
NOS 130 Windows Single User					3
NOS 231 Windows Admin II					3
NOS 232 Windows Admin III  Total Credit Hours Required					
NetTech - Windows Server Cert Fall - 1st year	mcate (C2534	vu3)	Sug	g.56	eq.
NOS 110 Operating System Concepts		2 2	3	0	3
Spring - 1st year	Total	2	3	0	5
NOS 130 Windows Single User		2 2	2	0	3
Fall - 2nd year	Total	2	2	0	3
NOS 230 Windows Admin I		2 2	2	0	3
Spring - 2nd year	Total	2	2	0	3
Spring - 2nd year NOS 231 Windows Admin II		2 2	2	0	3
Fall - 3rd year	Total	2	2	0	3
NOS 232 Windows Admin III		2 2	2	0	3
	Total Grand Total	2 10	2 11	0	3 15
=	Grana Iotal	10	11	U	1.5

1 4 0 3

1 4 0 3

1 4 0 3 4 16 0 12

Total

Total

Grand Total

Spring - 2nd year NET 273 Internetworking Support

#### OFFICE ADMINISTRATION A.A.S. Program (A25370)

Courses required to meet graduation requirements in this curriculum are offered during the day and online. The Associate in Applied Science Degree is awarded graduates of this curriculum. A certificate is awarded graduates of the Office Administration certificate option.

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.

**GENERAL EDUCATION COURSES:** 

GLITLI	RE EDUCATION COCKSES.	10			
	ommunications:	2			
ENG 11					
ENG 11 OR					
ENG 11	4 Prof Research & Reporting	3			
	ciences/Mathematics:				
MAT 11 OR					
MAT 16					
	1A College Algebra Lab	1			
	es/Fine Arts:	_			
Elective		3			
	havioral Sciences:				
Elective		3			
MAJOR	COURSES:				
ACC 12					
BUS 11					
BUS 26					
CIS 11					
CTS 13					
OST 13					
OST 13	5				
OST 13 OST 15	- Fr				
OST 15 OST 16					
OST 16					
OST 18					
OST 18					
OST 28	2				
OST 28					
OST 28		3			
WEB 11		3			
OR					
COE X	XX Co-op Work Experience	3			
Co-op Op	otion: Qualified students may elect to take up to 3 credit hours of cooper	era-			
tive educa	ation in place of WEB 110.				
Total Credit Hours Required					
DEVELO	PMENTAL COURSE REQUIREMENTS*				
CTS 0	80 Computing Fundamentals	3			
	000	2			

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 .....

Keyboarding Literacy

Improved College Reading.....4

Composition Strategies......

Office Administration • A2537	70			
Suggested Program Sequence D	ay		Зхр	
			Clin/WkExp	
	ass	Р	ii/	Credit
Fall - 1st year	Class	Lab	IJ	
CIS 110 Introduction to Computers	2 3	2	0	3
ENG 111 Expository Writing		0	0	3
OST 132 Keyboard - Skill Building	1	2	0	2
OST 164 Text Editing Applications	3	0	0	3
OST 136 Word Processing	2	2	0	3
Total	11	6	0	14
Spring - 1st year				
OST 184 Records Management	2	2	0	3
CTS 130 Spreadsheet Software	2	2	0	3
ENG 113 Literature - Based Research	3	0	0	3
OR ENG 114 Prof Research & Reporting	3	0	0	3
OST 284 Emerging Technologies	1	2	0	2
OST 137 Office Software Applicat	2	2	0	3
OST 181 Intro to Office Systems	2	2	0	3
Total	12	10	0	17
Fall - 2nd year				
ACC 120 Princ of Financial Acct	3	2	0	4
BUS 260 Business Communication	3	0	0	3
MAT 115 Mathematical Models	2	2	0	3
OR MAT 161 College Algebra	3	0	0	3
and MAT 161A College Albegra Lab	0	2	0	1
OST 165 Adv Text Editing Apps	2	2	0	3
OST 286 Professional Development	3	0	0	3
Total Spring - 2nd year	13/14	6	0	16/17
OST 289 Administrative Office Mgt	2	2	0	3
WEB 110 Internet/Web Fundamentals	2	2	0	3
OR Co-op Work Experience	0	0	30	3
OST 153 Office Finance Solutions	1	2	0	2
BUS 115 Business Law I	3	0	0	3
Humanities/Fine Art Elective	3	0	0	3
Social/Behavioral Science Elective	3	0	0	3
Total	14	6	0/30	17
Grand Total 5	0/51	28	0/30	64/65

SHC

ENG

MAT

OST

RED

090

080

090

#### OFFICE ADMINISTRATION Diploma Program (D25370)

GENE	ERAL I	EDUCATION COURSES:	SHC
English	n/Comm	nunications:	
ENG	111	Expository Writing	3
ENG	113	Literature - Based Research	3
	OR E	ENG 114 Prof Research & Reporting	3
		URSES:	
BUS	115	Business Law I	
CIS	110	Introduction to Computers	
CTS	130	Spreadsheet Software	
OST	132	Keyboard Skill Building	
OST	136	Word Processing	
OST	137	Office Software Applicat	
OST	153	Office Finance Solutions	
OST	164	Text Editing Applications	
OST	181	Intro to Office Systems	
OST	184	Records Management	
WEB	110	Internet/Web Fundamentals	3
Total (	Credit	Hours Required:	37
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
ENG	070	Basic Language Skills	3
OST	080	Keyboarding Literacy	3
RED	080	Intro to College Reading	

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

ç

Office Administration - Diploma (D25370)						
	Suggested Se	equence	SS	_	Clin/WkEx	Credit
Fall - 1st ye	ear		Class	Lab	<u> </u>	Cre
CIS 110 OST 132 OST 136 OST 164 ENG 111	Introduction to Computers Keyboarding Skill Buildin Word Processing Text Editing Applications Expository Writing	g	2 1 2 3 3	2 2 2 0 0	0 0 0 0	3 2 3 3 3
		Total	11	6	0	14
Spring - 1s OST 181 OST 184 OST 137 OST 153 CTS 130 WEB 110	t year Intro to Office Systems Records Management Office Software Applicat Office Finance Solutions Spreadsheet Software Internet/Web Fundamental	s	2 2 2 1 2 2	2 2 2 2 2 2 2	0 0 0 0 0	3 3 2 3 3
		Total	11	12	0	17
	Literature - Based Research NG 114 Prof Research & R		3 3 3	0 0 0	0 0 0	3 3 3
		Total	6	0	0	6
	Grand	l Total	28	18	0	37

#### OFFICE ADMINISTRATION Certificate Program (C25370)

SHC

**MAJOR COURSES:** 

CIS OST OST	110 132 136	Introduction to Computers Keyboard Skill Building Word Processing					2
OST	164	Text Editing Applications					3
OST	181	Intro to Office Systems					3
OST	184	Records Management					3
Total	Credit	Hours Required:		•••••	•••••	•••••	17
DEVE	LOPM	ENTAL COURSE REQUIRE	MENTS*				
CTS	080	Computing Fundamentals					3
ENG	070	Basic Language Skills					3
OST	080	Keyboarding Literacy					3
RED	080	Intro to College Reading					4
whose reading	placem g, Englis	tal coursework (including all pre ent test scores indicate a need to sh, mathematics, and computers. requisite course information.	for greater profic	iency	in th	e aı	reas of
		Office Administration - (	Certificate (C	2537	70)		
		Suggested So	equence				
Fall -	1st ye		•				
CIS		Introduction to Computers		2	2	0	3
OST		Keyboarding Skill Buildin	g	1 2 3	2 2 2	0	3 2 3 3
OST		Word Processing		2	2	0	3
OST	164	Text Editing Applications		3	0	0	3
			Total	8	6	0	11
	g - 1st	year					
OST	181	Intro to Office Systems		2	2	0	3
OST	184	Records Management		2	2	0	3
			Total	4	4	0	6
			Grand Total	12	10	0	17
OFFICE ADMINISTRATION Microsoft Office Specialist Contiferate (MOS)							

# OFFICE ADMINISTRATION Microsoft Office Specialist Certificate (MOS) Certificate Program (C2537001)

MAJ(	OR COU	JRSES:	SHC
CIS	110	Introduction to Computers	3
CTS	130	Spreadsheet	3
OST	136	Word Processing	3
OST	137	Office Software Applicat	3
Total	Credit	Hours Required:	12
	LOPM	ENTAL COURSE REQUIREMENTS*	
	2 <b>LOPM</b> 1	ENTAL COURSE REQUIREMENTS*  Computing Fundamentals	3

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

### Office Administration - Microsoft Office Specialist - Certificate (C2537001) - Suggested Sequence

Fall - 1st ye	ear					
CIS 110	Introduction to Computers		2	3	0	3
OST 136	Word Processing		2	2	0	3
		Total	4	5	0	6
Spring - 1st	t year					
CTS 130	Spreadsheet Software		2	2	0	3
OST 137	Office Software Applicat		2	2	0	3
		Total	4	4	0	6
		Grand Total	8	9	0	12

#### PHOTOGRAPHIC TECHNOLOGY A.A.S. Program (A30280)

Courses required to meet graduation requirements in this curriculum are offered during day hours only. Minimum time for completion: five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum. The Photographic Technology curriculum offers training in photographic techniques and their application in professional photographic disciplines. Where offered, students will receive comprehensive course work in four areas of concentration: Biomedical Photography, Photojournalism, Commercial Photography and Portrait Studio Management. Special emphasis is placed on developing skills in the following areas: fundamentals of camera systems, lighting, photographic process, digital imaging, design and business practices. Graduates should qualify for entry level jobs in the diverse photographic industry. Employment opportunities exist in the following areas: commercial photography, photojournalism, biomedical photography, portrait photography, equipment sales, photographic laboratories, and imaging technologies, depending upon courses offered and completed.

	EDUCATION COURSES:	SHC
English/Commu		
ENG 111	Expository Writing	
ENG 113 OR	Literature-Based Research	3
ENG 114	Prof Research & Reporting	3
Humanities/Fine		
Elective		3
Natural Science		
MAT 115 OR	Mathematical Models	
MAT 140	Survey of Mathematics	
MAT 140A OR	Survey of Mathematics Lab	1
A higher Math		3/4
Social/Behavior	ral Sciences:	
Elective		3
MAJOR COUL		
PHO 110	Fund of Photography	5
PHO 113	History of Photography	
PHO 115	Basic Studio Lighting	
PHO 120	Intermediate Photography	
PHO 139 PHO 150	Intro to Digital Imagining Portfolio Development I	
PHO 216	Documentary Photography	
PHO 217	Photojournalism I	
PHO 219	Digital Applications	
PHO 220	Business of Photography	3
PHO 224	Multimedia Producations	3
PHO 226	Portraiture	
PHO 235	Commercial Photography	
PHO 250	Portfolio Development II	4
_	Electives	
Studen	ts are required to take a minimum of 1 SHC from the followi	ng:
BUS 11	10 Introduction to Business	
BUS 12	25 Personal Finance 3	
BUS 13	37 Principles of Management	
BUS 13		
CIS 1	10 Introduction to Computers	
COE X	XXX Co-op Work Experience1-3	
OTHER REOI	UIRED COURSES:	
ACA 111	College Student Success	1
Total Credit H	Hours Required	. 67-70
DEVELOPME	ENTAL COURSE REQUIREMENTS*	
CTS 080	Computing Fundamentals	3
ENG 090	Composition Strategies	3
	010, DMA 020, DMA 030, DMA 040, DMA 050	
RED 090	Improved College Reading	4
whose placemen	al coursework (including all prerequisites) will be required of ent test scores indicate a need for greater proficiency in the n, mathematics, and computers. Please refer to the Course Desc	areas of

Photographic Technology • A30280 Suggested Program Sequence Day							
Edl. 14		Class	Lab	Clin/WkExp	Credit		
Fall - 1st year ACA 111 College Student Success ENG 111 Expository Writing MAT 115 Mathematical Models OR MAT 140 Survey of Mathen and MAT 140A Survey of Mathe OR a higher Math		1 3 2 3 0	0 0 2 0 2	0 0 0 0	1 3 3 3 1		
PHO 110 Fundamentals of Photogra PHO 139 Intro to Digital Imaging	aphy	3	6	0	5 2		
Spring - 1st year	Total 1	0/11	11	0	14/15		
PHO 115 Basic Studio Lighting PHO 120 Intermediate Photography PHO 219 Digital Applications PHO 220 Business of Photography PHO 224 Multimedia Productions	, Total	2 2 1 3 2	6 4 3 0 3	0 0 0 0 0	4 4 2 3 3		
Summer - 1st year							
ENG 113 Literature - Based Research OR ENG 114 Prof Research and Humanities/Fine Arts Elective Social/Behavioral Science Elective	Reporting	3 3 3	0 0 0 0	0 0 0 0	3 3 3		
	Гotal	9	0	0	9		
Fall - 2nd year PHO 150 Portfolio Development I PHO 217 Photojournalism I PHO 226 Portraiture PHO 235 Commercial Photography		3 1 3 2	3 6 3 4	0 0 0 0	4 4 4 4		
	otal	9	16	0	16		
Spring - 2nd year PHO 113 History of Photography PHO 216 Documentary Photograph PHO 250 Portfolio Development II Program Elective	у	3 2 2	0 4 4	0 0 0	3 4 4 1/3		
	otal	7	8	0	12/14		
Grand T  Photographic Technology		• (C3)	51 0 <b>280</b>	0	67/70		
MAJOR COURSES:							
PHO 110 Fund of Photography PHO 115 Basic Studio Lighting PHO 139 Intro to Digital Imagining PHO 219 Digital Applications					4 2		
PHO 224 Multimedia Producations							
Total Credit Hours Required	•••••	•••••	•••••	•••••	16		
Photographic Technology ( Suggested Program S			0280	)			
Fall - 1st year PHO 110 Fund of Photography PHO 139 Intro to Digital Imaging	Total	3 1 4	6 3 9	0 0 0	5 2 7		
Spring - 1st year PHO 219 Digital Applications	Total	1	3	0	2 2		
Fall - 2nd year PHO 115 Basic Studio Lighting	Total	2 2	6	0	_		
Spring - 2nd year PHO 224 Multimedia Productions	Total	2 2		0	3 3		
	Grand Tot	_	21	0	16		

section for prerequisite course information.

#### POLYSOMNOGRAPHY A.A.S. Program (A45670)

Courses required to meet graduation requirements in this curriculum are offered during day hours only with clinicals in the evenings. Minimum time for completion: four semesters full-time attendance. The Associate of Applied Science degree is awarded graduates of this curriculum.

The Polysomnography curriculum prepares individuals, working in conjunction with a physician, to perform and interpret sleep studies and to provide comprehensive clinical evaluations that are required for the diagnosis of sleep related disorders. Students will acquire the knowledge and skills necessary to perform sleep studies, including recording and interpreting events observed during sleep. Treatment of sleep related disorders and patient education focused on healthy sleep habits will also be discussed. Graduates of accredited programs may be eligible to apply to take the examination offered by the Board of Registered Polysomnographic Technologists. Employment opportunities may be found in hospitals and freestanding sleep centers.

GENI	ERAL E	CDUCATION COURSES: SI	HC
English	n/Commu	inications:	
ENG	111	Expository Writing	3
ENG	114	Prof Research & Reporting	3
	OR		
ENG	112	Argument-Based Research	3
	OR		
ENG	113	Literature-Based Research	3
Humar	ities/Fine	e Arts:	
Electiv	e		3
Natura	l Sciences	s/Mathematics:	
MAT	115	Mathematical Models	3
	110		5
		ral Sciences:	
Electiv	e		3
MAJO	R COUE	RSES:	
BIO	163	Basic Anat & Physiology	5
CIS	110	Introduction to Computers	
ELC	111	Intro to Electricity	
MED	118	Medical Law and Ethics	
MED	121	Medical Terminology I	
MED	122	Medical Terminology II	
PSG	110	Intro to Polysomnography	4
PSG PSG	111 112	Neuro/Cardiopulmonary A&P PSG Fundamentals	
PSG	210	Polysomnography I	
PSG	211	Polysomnography II	
PSG	212	Infant/Pediatric PSG	
PSG	213	Case Study/Exam Review	
PSG	214	PSG Clinical Apps I	1
OTHE	R REOU	JIRED COURSES:	
ACA	111	College Student Success	1
Total (	Credit H	Iours Required	.66
DEVE	LOPME	NTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	2
ENG	090	Composition Strategies	
MAT		10, DMA 020, DMA 030, DMA 040, DMA 050	
RED	090	Improved College Reading	
		r	

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Fall - 1st year  ACA 111 College Student Success  ENG 111 Expository Writing  MED 121 Medical Terminology I  MAT 115 Mathematical Models  PSG 110 Intro to Polysomnography  Total  Spring - 1st year  MED 122 Medical Terminology II  Spring - 1st year  MED 122 Medical Terminology II  Spring - 1st year  MED 122 Medical Terminology II  Spring - 1st year  MED 122 Medical Terminology II  Spring - 1st year  MED 112 Intro to Computers  2 2 0 3  ELC 111 Intro to Electricity  PSG 112 Fundamentals  Total  Total  14 4 0 16  Summer - 1st year  MED 118 Medical Law and Ethics  ENG 114 Prof Research & Reporting  OR ENG 112 Argument-Based Research  OR ENG 113 Literature-Based Research  Humanities/Fine Arts Elective  Total  8 0 0 8  Fall - 2nd year  PSG 210 Polysomnography I  Social Behavioral/Science Elective  Total  Total  Spring - 2nd year  PSG 211 Polysomnography II  Spring - 2nd year  PSG 212 Infant/Pediatric PSG  Total  Total  Total  S 11 9 12	Polysomnography • A45670 Suggested Program Sequence Day						Credit
Spring - 1st year   MED 122   Medical Terminology II   3 0 0 3	ACA 111 ENG 111 MED 121 MAT 115	College Student Success Expository Writing Medical Terminology I Mathematical Models			0 0 0	0 0 0	
MED 122         Medical Terminology II         3 0 0 3           CIS 110 Intro to Computers         2 2 0 3           ELC 111 Intro to Electricity         2 2 0 3           PSG 111 Neuro/CP A&P         4 0 0 4           PSG 112 Fundamentals         3 0 0 3           Total         14 4 0 16           Summer - 1st year           MED 118 Medical Law and Ethics         2 0 0 2           ENG 114 Prof Research & Reporting         3 0 0 3           OR ENG 112 Argument-Based Research         3 0 0 3           OR ENG 113 Literature-Based Research         3 0 0 3           Humanities/Fine Arts Elective         3 0 0 3           Total         8 0 0 8           Fall - 2nd year         7           PSG 210 Polysomnography I         3 2 9 7           PSG 214 PSG Clinical Apps I         0 2 0 1           Social Behavioral/Science Elective         3 0 0 3           Total         6 4 9 11           Spring - 2nd year           PSG 211 Polysomnography II         2 6 9 7           PSG 212 Infant/Pediatric PSG         3 2 0 4           PSG 213 Exam Review/Case Studies         0 3 0 1			Total	12	4	0	14
Summer - 1st year         MED 118       Medical Law and Ethics       2       0       0       2         ENG 114       Prof Research & Reporting       3       0       0       3         OR       ENG 112 Argument-Based Research       3       0       0       3         OR       ENG 113 Literature-Based Research       3       0       0       3         Humanities/Fine Arts Elective       3       0       0       3         Fall - 2nd year       Total       8       0       0       8         Fall - 2nd year       PSG 214       PSG Clinical Apps I       0       2       0       1         Social Behavioral/Science Elective       3       0       0       3         Total       6       4       9       11         Spring - 2nd year       Total       6       4       9       11         Spring - 2nd year       Total       6       4       9       11         Spring - 2nd year       Total       6       4       9       11         Spring - 2nd year       Total       6       4       9       11         Spring - 2nd year       Total       6       4       <	MED 122 CIS 110 ELC 111 PSG 111	Medical Terminology II Intro to Computers Intro to Electricity Neuro/CP A&P		3 2 2 4 3	2 2 0	0 0 0	3 3 4 3
MED 118         Medical Law and Ethics         2         0         0         2           ENG 114         Prof Research & Reporting         3         0         0         3           OR         ENG 112 Argument-Based Research         3         0         0         3           OR         ENG 113 Literature-Based Research         3         0         0         3           Humanities/Fine Arts Elective         3         0         0         3           Total         8         0         0         8           Fall - 2nd year           PSG 210         Polysomnography I         3         2         9         7           PSG 214         PSG Clinical Apps I         0         2         0         1           Social Behavioral/Science Elective         3         0         0         3           Total         6         4         9         11           Spring - 2nd year           PSG 211         Polysomnography II         2         6         9         7           PSG 212         Infant/Pediatric PSG         3         2         0         4           PSG 213         Exam Review/Case Studies         <			Total	14	4	0	16
Fall - 2nd year PSG 210 Polysomnography I	MED 118 ENG 114 OR OR	Medical Law and Ethics Prof Research & Reporting ENG 112 Argument-Based ENG 113 Literature-Based	Research	2 3 3 3 3	0 0 0	0 0 0	2 3 3 3 3
PSG 210 Polysomnography I 3 2 9 7 PSG 214 PSG Clinical Apps I 0 2 0 1 Social Behavioral/Science Elective 3 0 0 3  Total 6 4 9 11  Spring - 2nd year PSG 211 Polysomnography II 2 6 9 7 PSG 212 Infant/Pediatric PSG 3 2 0 4 PSG 213 Exam Review/Case Studies 0 3 0 1			Total	8	0	0	8
Spring - 2nd year PSG 211 Polysomnography II 2 6 9 7 PSG 212 Infant/Pediatric PSG 3 2 0 4 PSG 213 Exam Review/Case Studies 0 3 0 1	PSG 210 PSG 214	Polysomnography I PSG Clinical Apps I	ve	0	2 2 0	0	1
PSG 211 Polysomnography II 2 6 9 7 PSG 212 Infant/Pediatric PSG 3 2 0 4 PSG 213 Exam Review/Case Studies 0 3 0 1			Total	6	4	9	11
Total 5 11 9 12	PSG 211 PSG 212	Polysomnography II Infant/Pediatric PSG	es	2 3 0	2	0	4
Grand Total 45 23 18 61		Grand		-			

**Note:** Students must complete BIO 163, Basic Anat & Physiology 5 credit hours, prior to admission into the program.

#### POLYSOMNOGRAPHY Certificate Program (C45650)

Courses required to meet graduation requirements in this curriculum are offered during day hours, clinicals are offered in the evening hours. Minimum time for completion: three semesters part-time attendance. A certificate is awarded graduates of this curriculum.

MAJO	R COUF	RSES: SH	C			
*PSG	189	Polysomnog Transition	3			
PSG	210	Polysomnography I	7			
PSG	211	Polysomnography II	7			
*Credit for course may be earned by successfully completing the Polysomnography Entrance Test.						
Total Credit Hours Required17						

Poly	somnography Certificate	• C45650	Sugges	sted	Seq	
Summer -	1st year					
*PSG 189	Polysomnog Transition		1	3	3	3
	, .	Total	1	3	3	3
Fall - 1st y	ear					
PSG 210	Polysomnography I			2		
	2 0 1 2	Total	3	2	9	7
Spring - 1s	t year					
PSG 211	Polysomnography II			6		
		Total	2	6	9	7
		Grand To	tal 6	11	21	17

#### RADIOGRAPHY A.A.S. Program (A45700)

Courses required to meet graduation requirements in this curriculum are offered during day hours only. Minimum time for completion: five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum.

The Radiography curriculum prepares the graduate to be a radiographer, a skilled health care professional who uses radiation to produce images of the human body. Course work includes clinical rotations to area health care facilities, radiographic exposure, image processing, radiographic procedures, physics, pathology, patient care and management, radiation protection, quality assurance, anatomy and physiology, and radiobiology. Graduates of accredited programs are eligible to apply to take the American Registry of Radiologic Technologists' national examination for certification and registration as medical radiographers. Graduates may be employed in hospitals, clinics, physicians' offices, medical laboratories, government agencies, and industry.

_		EDUCATION COURSES: SHC
English	h/Comi	munications:
ENG	111	Expository Writing
English		ive3
		nts are required to take one (1) course from the following:
	ENG ENG	112   Argument-Based Research
	ENG	114 Prof Research & Reporting
Humar	nities/F	ine Arts:
Electiv	re	3
Natura	l Scien	ces/Mathematics:
BIO	168	Anatomy and Physiology I4
BIO	169	Anatomy and Physiology II4
Social/	Behavi	ioral Sciences:
PSY	150	General Psychology3
MAJO	R CO	URSES:
RAD	110	Rad Intro & Patient Care
RAD	111	Rad Procedures I
RAD	112	RAD Procedures II4
RAD	121	Radiographic Imaging I
RAD	122	Radiographic Imaging II
RAD	131	Radiographic Physics I
RAD	151	RAD Clinical Ed I
RAD	161	Rad Clinical Ed II5
RAD	171	Rad Clinical Ed III
RAD	211	Rad Procedures III
RAD	231	Radiographic Physics II
RAD	241	Radiobiology/Protection
RAD	245	Image Analysis
RAD	251	Rad Clinical Ed IV
RAD RAD	261 271	Rad Clinical Ed V
KAD	2/1	Radiography Capstone
Total (	Credit	Hours Required73
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*
ENG	090	Composition Strategies
MAT		A 010, DMA 020, DMA 030, DMA 040

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Improved College Reading......4

	Radiography Prog Suggested Program		7		Clin/WkExp	.t.
Fall - 1st y BIO 168 ENG 111 PSY 150	ear Anat. & Physiology Expository Writing General Psychology		S Class	9 0 0	0 0 0 Clin/	3 Credit
		Total	9	3	6	10
OR E	t year Anat. & Physiology II Argument Based Research ENG 113 Literature Based I NG 114 Prof Research & Research From the Arts Elective	Research	3 3 3 3	3 0 0 0 0	0 0 0 0	4 3 3 3 3
		Total	9	3	0	10
Fall - 2nd y RAD 110 RAD 111 RAD 151	Rad Intro & Patient Care Rad Procedures I		2 3 0	3 3 0	0 0 6	3 4 2
		Total	5	6	6	9
Spring - 2r RAD 112 RAD 121 RAD 131 RAD 161	-		3 2 1 0	3 3 0	0 0 0 15	4 3 2 5
		Total	6	9	15	14
Summer - 2 RAD 122 RAD 171			1 0	3	0 12	2 4
		Total	1	3	12	6
Fall - 3rd y RAD 211 RAD 231 RAD 251		Total	2 1 0 3	3 3 0	0 0 21 21	3 2 7
Spring - 3r RAD 241 RAD 245 RAD 261 RAD 271	d year Radiobiology/Protection Image Analysis Rad Clinical Ed V Radiography Capstone		2 1 0 0	0 3 0 3	0 0 21 0	2 2 7 1
		Total	3	6	21	12
		Grand Total	36	36	75	73

**Note:** Students must complete BIO 168, BIO 169, ENG 111, ENG 112 or ENG 113 or ENG 114, MAT 140 or higher, PSY 150, and a Humanities/Fine Arts elective, prior to the program application deadline and prior to admission to the program. Students must also be accepted into the Radiography program prior to taking RAD courses.

#### **REAL ESTATE**

Real Estate courses offered can be taken as an elective for Business Administration and General Occupational Technology, or for the North Carolina Real Estate Sales and Broker examinations.

Course requirements for the North Carolina Real Estate Sales Examination:

RLS 112 Broker Prelicensing 5 0 0 5 RLS 113 Real Estate Mathematics 2 0 0 2

For additional information on examination requirements, please contact the North Carolina Real Estate Office.

## RESPIRATORY THERAPY A.A.S. Program (A45720)

Courses required to meet graduation requirements in this curriculum are offered during day hours only. Minimum time for completion: five semesters full-time attendance. The Associate of Applied Science Degree is awarded graduates of this curriculum.

The Respiratory Therapy curriculum prepares individuals to function as respiratory therapists. In these roles, individuals perform diagnostic testing, treatments, and management of patients with heart and lung diseases. Students will master skills in patient assessment and treatment of cardiopulmonary diseases. These skills include life support, monitoring, drug administration, and treatment of patients of all ages in a variety of settings. Graduates of accredited programs may be eligible to take entry-level examinations from the National Board of Respiratory Care. Therapy graduates may also take the Advanced Practitioner examination. Graduates may be employed in hospitals, clinics, nursing homes, education, industry, and home care.

GENERAL EDUCATION COURSES:

_		unications:
ENG	111	Expository Writing
ENG	112	Argument-Based Researach
OR		
ENG	113	Literature-Based Research
OR		
ENG	114	Prof Research & Reporting
Humai	nities/Fir	
Electiv	re.	3
	-	es/Mathematics:
BIO	163	Basic Anat & Physiology
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		oral Sciences:
Electiv	re	3
MAJO	R COU	RSES:
BIO	175	General Microbiology
RCP	110	Intro to Respiratory Care
RCP	111	Therapeutics/Diagnostics
RCP	113	RCP Pharmacology
RCP	114	C-P Anatomy & Physiology
RCP	115	C-P Pathophysiology2
RCP	122	Special Practice Lab
RCP	123	Special Practice Lab
RCP	145	RCP Clinical Practice II5
RCP	152	RCP Clinical Practice III
RCP	210	Critical Care Concepts4
RCP	211	Adv Monitoring/Procedures4
RCP	214	Neonatal/Ped's RC
RCP	215	Career Prep-Adv Level
RCP	236	RCP Clinical Practice IV6
RCP	247	RCP Clinical Practice V
Total	Crodit	Hours Required69
Total	Creuit	itours Required09
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*
<b>ENG</b>	090	Composition Strategies
MAT	DMA	010, DMA 020, DMA 030, DMA 040

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Improved College Reading......4

	Respiratory Thera	ру • А45720				
	Suggested Program	<b>Sequence Day</b>			χp	
					Clin/WkExp	
			ISS	0	N _V	śdit
Fall - 1st ye	ear		Class	Lab	CE	Ç
RCP 110	Intro to Resp. Care		3	3	0	4
RCP 113	RCP Pharmacology		2	0	0	2
RCP 122	Special Practice Lab		0	2	0	1
RCP 114	C-P Anatomy & Physiolo	gy	3	0	0	3
BIO 163	Basic Anatomy & Physiol	ogy	4	2	0	5
ENG 111	<b>Expository Writing</b>		3	0	0	3
		Total	15	7	0	18
Spring - 1s	t year					
RCP 111	Therapeutics/Diagnostics		4	3	0	5
RCP 145	Clinical Practice II		0	0	15	5
RCP 115	C-P Pathophysiology		2	0	0	2
BIO 175	General Microbiology		2	2	0	3
ENG 112		1	3	0	0	3
OR	ENG 113 Literature-Base	d Research	3	0	0	3
OR	ENG 114 Professional Wi	riting	3	0	0	3
(Students a	re recommended to take EN	•				
		Total	11	5	15	18
Summer - 1	lst year					
	Clinical Practice III		0	0	6	2
RCP 123	Special Practice Lab		0	3	0	1
		Total	0	3	6	3
Fall - 2nd y	vear					
RCP 210			3	3	0	4
RCP 236	Clinical Practice IV		0	0	18	
RCP 214			1	3	0	
Huma	nities/Fine Arts Elective		3	0	0	3
		Total	7	6	18	15
Spring - 2n	d year					
RCP 211		ced.	3	3	0	4
RCP 247	_		0	0	21	7
RCP 215	Career Prep - Adv. Level		0	3	0	
	Behavioral Science Electiv	/e	3	0	0	3
		Total	6	6	21	15
		Grand Total	39	27	60	69

**Note:** Students must complete college level chemistry, 4 credit hours, prior to admission into the program. CHM 100 or greater.

SHC

RED

090

#### SURGICAL TECHNOLOGY Diploma Program (D45740)

Courses required to meet graduation requirements in this curriculum are offered during day hours only. Minimum time for completion: three semesters full-time attendance. The Diploma is awarded graduates of the surgical technology curriculum. The Surgical Technology curriculum prepares individuals to assist in the care of the surgical patient in the operating room and to function as a member of the surgical team. Students will apply theoretical knowledge to the care of patients undergoing surgery and develop skills necessary to prepare supplies, equipment, and instruments; maintain aseptic conditions; prepare patients for surgery; and assist surgeons during operations. Employment opportunities include labor/delivery/emergency departments, inpatient/outpatient surgery centers, dialysis units/facilities, physicians' offices, and central processing units. Students of Commission on Accreditation of Allied Health Education Programs (CAAHEP) accredited programs are required to take the national certification exam administered by the National Board on Certification in Surgical Technology and Surgical Assisting (NBSTSA) within a four-week period prior to or after graduation.

_		DUCATION COURSES: SHC nications:	
ENG		Expository Writing	
		al Sciences:	
PSY		General Psychology	
гот	130	General Esychology	
MAJO	R COUF	RSES:	
BIO	163	Basic Anat & Physiology5	
BIO	175	General Microbiology	
SUR	110	Intro to Surg Tech	
SUR	111	Periop Patient Care	
SUR	122	Surgical Procedures I	
SUR	123	SUR Clinical Practice I	
SUR	134	Surgical Procedures II5	
SUR	135	SUR Clinical Practice II4	
SUR	137	Prof Success Prep	
OTHE	R REQU	URED COURSES:	
ACA	111	College Student Success	
Total (	Credit H	ours Required48	
DEVE	LOPME	NTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	
ENG	090	Composition Strategies	
MAT	DMA 0	10, DMA 020, DMA 030, DMA 040	
RED	090	Improved College Reading	
*Devel	opmental	coursework (including all prerequisites) will be required of students	
		at test scores indicate a need for greater proficiency in the areas of	

reading, English, mathematics, and computers. Please refer to the Course Descriptions

section for prerequisite course information.

	Surgical Technolo	ogy • (D45740	0)		_	
	Suggested Program	n Sequence I	<b>)</b> ay		Œxp	
Fall - 1st ye	ear		298	Lab	Clin/WkExp	Credit
ENG 111 ACA 111 BIO 163 SUR 110 SUR 111	Expository Writing College Student Success Basic Anatomy & Physic Intro to Surg Tech Periop Patient Care	ology	3 1 4 3 5	0 0 2 0 6	0 0 0 0	3 1 5 3 7
Spring - 1st		Total	16	8	0	19
BIO 175 PSY 150 SUR 122 SUR 123	General Microbiology General Psychology Surgical Procedures I SUR Clinical Practice I		2 3 5 0	2 0 3 0	0 0 0 21	3 6 7
Summer - 1 SUR 135 SUR 134 SUR 137	st year SUR Clinical Practice II Surgical Procedures II Prof Success Prep	Total	10 0 5 1	5 0 0 0	21 12 0 0	19 4 5 1
	•	Total	6	0	12	10
		Grand Total	32	13	33	48

#### TURFGRASS MANAGEMENT TECHNOLOGY A.A.S. Program (A15420)

Most courses required to meet graduation requirements in this curriculum are offered during day hours only. Minimum time for completion: five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum. CVCC has an 2 + 2 Articulation Agreement with N.C. Agricultural and Technological State University in Horticulture. CVCC has an 2+2 Online Articulation Agreement with Pennsylvania State University for the B.S. Degree in Turfgrass Management. These curricula are designed to prepare individuals for various careers in horticulture. Classroom instruction and practical laboratory applications of horticultural principles and practices are included in the program of study. Course work includes plant identification, pest management, plant science and soil science. Also included are courses in sustainable plant production and management, landscaping, and the operation of horticulture businesses. Graduates should qualify for employment in a variety of positions associated with nurseries, garden centers, greenhouses, landscape operations, governmental agencies/parks, golf courses, sports complexes, highway vegetation, turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the North Carolina Pesticide Applicator's Examination and/or the North Carolina Certified Plant Professional Examination. A program that focuses on turfgrasses and related groundcover plants and prepares individuals to development ornamental or recreational grasses and related products; plant, transplant, and manage grassed areas; and to produce and store turf used for transplantation. Potential course work includes instruction in applicable plant sciences, genetics of grasses, turf science, use analysis, turf management, and related economics.

GENI	ERAL E	DUCATION COURSES: SHO	7
Englisl	n/Commu	nications:	
ENG	111	Expository Writing	3
ENG	114	Prof Research & Reporting	
	OR	Τ	
ENG	112	Argument-Based Research	3
	OR		
ENG	113	Literature-Based Research 3	3
	nities/Fine		,
Electiv		3	,
	•		,
		s/Mathematics:	
MAT	115	Mathematical Models	;
Social/	Behavior	al Sciences:	
Electiv	-	3	3
	R COUI	RSES:	_
COE	XXX	Co-op Work Experience	,
HOR	162	Applied Plant Science 3 Soils & Fertilizers 3	,
HOR TRF	166 110	Intro Turfgrass Cult & ID	
TRF	120	Turfgrass Irrigat & Design	
TRF	125	Turfgrass Computer App	
TRF	130	Native Flora ID 2	
TRF	140	Turfgrass Mgmt Safety	
TRF	150	Landscape Drafting 2	2
TRF	151	Intro Landscape Design	
TRF	152	Landscape Maintenance	
TRF	210	Turfgrass Eqmt Mgmt	3
TRF	220	Turfgrass Calculations 2	
TRF	230	Turfgrass Mgmt Apps	
TRF TRF	240 250	Turfgrass Pest Control	
TRF	260	Adv Turfgrass Mgmt 4	
			r
		JIRED COURSES: Spanish for the Workplace	,
SPA	120		
Total	Credit H	ours Required70	)
DEVE	LOPME	NTAL COURSE REQUIREMENTS*	
ENG	090	Composition Strategies	3
MAT	DMA 0	10, DMA 020, DMA 030, DMA 040, DMA 050	
RED	090	Improved College Reading4	

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

	Turfgrass Management Te			20	Exp	
	Suggested Program	Sequence Da	-		Clin/WkExp	.t
			Class	Lab	Clin/	Credi
Fall - 1st ye					•	_
ENG 111	1 3 8		3	0	0	3
	Mathematical Models		2	2	0	_
TRF 110	Č	)	3	2	0	
HOR 166	Soils & Fertilizers		2	2	0	-
TRF 150	Landscape Drafting		1	3	0	
HOR 162	Applied Plant Science		2	2	0	3
		Total	13	11	0	18
Spring - 1st						
TRF 220	Turfgrass Calculations		2	0	0	2
TRF 210	Turfgrass Equipment Mgm	it	1	4	0	3
TRF 120	Turfgrass Irrigat & Design		2	4	0	4
ENG 114	Prof Research & Reporting	(Preferred)	3	0	0	3
OR	ENG 112 Argument-Based	Research	3	0	0	3
OR	ENG 113 Literature-Based	Research	3	0	0	3
TRF 151	Intro Landscape Design		2	2	0	3
		Total	10	10	0	15
Summer - 1	ct voor	Total	10	10	U	13
	Co-op Work Experience		0	0	20	2
COL AAA	Co-op Work Experience		U	U	20	2
		Total	0	0	20	2
Fall - 2nd y						
TRF 240	Turfgrass Pest Control		2	2	0	_
TRF 140	Turfgrass Mgmt Safety		2	2	0	-
TRF 125	Turfgrass Computer App		1	3	0	
TRF 130	Native Flora ID		1	3	0	2
TRF 152	Landscape Maintenance		2	2	0	3
COE XXX	Co-op Work Experience		0	0	10	1
Huma	nities/Fine Arts Elective		3	0	0	3
		Total	11	12	0	17
Spring - 2n	d year					
TRF 260	Adv Turfgrass Mgmt		3	2	0	4
TRF 230	Turfgrass Mgmt Apps		1	2	0	2
TRF 250	Golf/Sport Field Const		2	4	0	4
COE XXX	Co-op Work Experience		0	0	20	2
SPA 120	Spanish for the Workplace		3	0	0	3
Social	Behavioral Science Electiv	e	3	0	0	3
		Total	12	8	0	18
	C 1					
	Grand	iotai	46	41	50	/0

#### TURFGRASS MANAGEMENT TECHNOLOGY Diploma Program (D15420)

GENERA	L EDUCATION COURSES					SHC
ENG 11	Expository Writing					3
MAT 11	5 Mathematical Models					3
MAJOR	COURSES:					
COE 11	Co-op Work Experience I					3
COE X	XX Co-op Work Experience					
HOR 16	6 Soils & Fertilizers					3
TRF 11	Intro Turfgrass Cult & ID					4
TRF 12	0 Turfgrass Irrigat & Design.					4
TRF 13						
TRF 14						
TRF 15						
TRF 21						
TRF 22						2
TRF 24						
TRF 25						
Total Cre	lit Hours Required		•••••	•••••	•••••	39
DEVELO	PMENTAL COURSE REQUIRE	EMENTS*				
ENG 09						3
	MA 010, DMA 020, DMA 030, DN	4A 040, DMA 050				5
RED 09	Improved College Reading					4
whose plac reading, Er	ental coursework (including all pre- ement test scores indicate a need f glish, mathematics, and computers n for prerequisite course informati	for greater proficie Please refer to the	ncy i	n the	area	as of
Fall - 1st ENG 11 MAT 11 HOR 16 TRF 11 TRF 14 TRF 24	Expository Writing Mathematical Models Soils & Fertilizers Intro to Turfgrass Cul & I Turfgrass Mgmt Safety	D	3 2 2 3 2 2	0 2 2 2 2 2 2	0 0 0 0 0	3 3 4 3 3
		Total	12	8	0	19
Spring -	st year	10141		Ü		
Spring - TRF 120		1	2 1 2 2	4	0	4
TRF 151	Intro Landscape Design		2	4 2 4	0	4 3 2 4
TRF 210		nt	1		0	3
TRF 220			2	$\frac{0}{4}$	0	2
	o o o p o o - o o - o -	r	0	0	0	1
COE AA	X Co-op Work Experience	L	U	U	U	1
C	1.4	Total	9	14	0	17
Summer COE 113			0	0	30	3
COL 113	Co-op Work Experience I	T 1	•		-	_
		Total	0	0	30	3
	Gran	d Total	21	22	30	39
TUR	FGRASS MANAGEM	IENT TECH	IN.	OL	00	ŝΥ

# Certificate Program (C15420)

MAJ(	OR CO	URSES:	SHC
TRF	110	Intro Turfgrass Cult & ID	4
TRF	120	Turfgrass Irrigat & Design	4
TRF	140	Turfgrass Mgmt Safety	3
TRF	220	Turfgrass Calculations	2
TRF	240	Turfgrass Pest Control	3
Total (	Credit 1	Hours Required	16
DEVE	LOPMI	ENTAL COURSE REQUIREMENTS*	
ENG	090	Composition Strategies	3
MAT		010, DMA 020, DMA 030, DMA 040, DMA 050	
RED	090	Improved College Reading	4

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Fall - 1st year	ar				
TRF 110	Intro to Turfgrass Cul & ID	3	2	0	4
TRF 140	Turfgrass Mgmt Safety	2	2	0	3
TRF 240	Turfgrass Pest Control	2	2	0	3
a : 1 .	Total	7	6	0	10
Spring - 1st	year				
TRF 120	Turfgrass Irrigat & Design	2	4	0	4
TRF 220	Turfgrass Calculations	2	0	0	2
	Total	4	4	0	6
	Grand Total	11	10	0	16

### WEB TECHNOLOGIES A.A.S. Program (A25290)

Courses required to meet graduation requirements in this curriculum are offered during the day and online. Minimum time for completion: Day--five semesters full-time attendance. The Associate in Applied Science Degree is awarded graduates of this curriculum. 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.

GENE	ERAL E	DUCATION COURSES: SHC
English	n/Commu	nications:
ENG	111	Expository Writing
ENG	114	Prof Research & Reporting
	OR	
ENG	113	Literature-Based Research
Human	ities/Fine	e Arts:
Electiv	e	3
Natural	Sciences	s/Mathematics:
MAT	140	Survey of Mathematics
MAT	140A	Survey of Mathematics Lab
Social/	Rehavior	al Sciences:
Electiv		3
MAJO CIS	R COUF	Introduction to Computers
CIS	115	Intro to Prog & Logic
COE	XXX	Co-op Work Experience
CTS	115	Info Sys Business Concept
DBA NET	110 125	Database Concepts
NOS	110	Networking Basics
SEC	110	Security Concepts
WEB	110	Internet/Web Fundamentals
WEB	115	Web Markup and Scripting
WEB WEB	120 140	Intro Internet Multimedia 3 Web Development Tools 3
WEB	210	Web Design
WEB	230	Implementing Web Serv
WEB	250	Database Driven Websites
WEB	289	Internet Technologies Project
		ndustry Elective
	BUS 23	
	CSC 15	1 JAVA Programming
	MKT 12 MKT 22	
	SGD 11	
5	SGD 11	= =====================================
	SGD 11	
	WEB 18 WEB 18	
	WEB 26	
OTHE	R REOI	URED COURSES:
ACA	111	College Student Success
9	Students	are required to take one (1) course from the following:
FVP	220	Editing I
WEB	111	Intro to Web Graphics
WEB	151	Mobile Application Development 1
WEB	220	Advanced Multimedia
WEB	240	Internet Security
Total (	Credit H	ours Required70
DEVE	LOPME	NTAL COURSE REQUIREMENTS*
CTS	080	Computing Fundamentals
ENG	090	Composition Strategies
MAT	DMA 0 090	10, DMA 020, DMA 030, DMA 040, DMA 050
RED		

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

	Web Technologie Suggested Program				Clin/WkExp	dit
Fall - 1st ye	ear College Student Success		Class	0 Lab	O Clir	1 Credi
CIS 110	Introduction to Computers		2	2	0	3
CIS 115	$\varepsilon$	_	2 2	3	0	3
DBA 110 WEB 110	Database Concepts & Appr Internet Web Fundamental		2	3	0	3
MAT 140	Survey of Math	3	3	0	0	3
MAT 140A	Survey of Math Lab		0	2	0	1
		Total	12	12	0	17
Spring - 1st			2	2	٥	2
CTS 115	Web Development Tools Info Sys Business Concep	ate	2	2	0	3
ENG 111		ois	3	0	0	3
NET 125			1	4	0	3
WEB 120	~		2	2	0	3
WEB 1	Program Elective		0	0	0	3
Summer - 1	st veer	Total	11	8	0	18
ENG 114	Prof Research & Reporting	)	3	0	0	3
OR	ENG 113 Literature-Based		3	0	0	3
Humai	nities/Fine Arts Elective		3	0	0	3
E 11 2 1		Total	6	0	0	6
Fall - 2nd y SEC 110			2	2	0	3
WEB 250			2	2	0	3
WEB 115			2	2	0	3
	Implementing Web Serv	,	2	2	0	3
WEB !	Elective		0	0	0	3
Garaine 200	1	Total	8	8	0	15
Spring - 2nd WEB 210			2	2	0	3
WEB 289			1	4	0	3
NOS 110	1 2 3	ots	2	3	0	_
	Co-op Work Experience		0	0	20	_
Social	Behavioral Science Electiv	re	3	0	0	3
		Total	8	9		14
		Grand Total	45	37	20	70

#### WEB TECHNOLOGIES

#### Basic Web Developer • Certificate Program (C25290)

MAJOR CO CSC 151 WEB 110 WEB 120 WEB 140	DURSES:  JAVA Programming  Internet/Web Fundamentals  Intro Internet Multimedia  Web Development Tools					3
Total Credi	t Hours Required		•••••	•••••	•••••	12
<b>Basic Wel</b> Fall - 1st y	Developer Certificate •	C25290 Sugg	est	ed S	Seq	uence
CSC 151	JAVA Programming		2	3	0	3
WEB 110	Internet Web Fundamenta	ls	2	2	0	3
		Total	4	5	0	6
Spring - 1s						
	Web Development Tools		2	2	0	
WEB 120	Intro Internet Multimedia		2	2	0	3
		Total	4	4	0	6
		Grand Total	8	9	0	12
W	WEB TECHNebmaster • Certificate		252	900	)1)	
MAJOR CO						SHC
CTS 115 SEC 110	Info Sys Business Concept Security Concepts					
WEB 115	Web Markup and Scripting					
WEB 210	Web Design					3
Total Credit	Hours Required	•••••	•••••	•••••	•••••	12
Web	Technologies - Webmaste Suggested S		<b>C</b> 2	2529	900	1
	zuggesteu z	-quener				
Fall - 1st y			2	2	0	2
SEC 110 WEB 115	Security Concepts Web Markup and Scriptin	σ	2	2	0	3
., 22 110	Internal and Soliphin,	<del>D</del>	_	-	~	-
Coming 1	<b>4</b>	Total	4	4	0	6
Spring - 1s CTS 115	-	nt	3	0	0	3
	-	Ρ.		2		
WED 210	Web Design		2	2	0	3

#### WELDING TECHNOLOGY

Diploma Program (D50420)

Courses required to meet graduation requirements in this curriculum are offered during day, afternoon, and evening hours. Minimum time for completion: five semesters fultime attendance. Students may begin any semester. The Diploma is awarded graduates of this curriculum. A Certificate is awarded graduates who complete the certificate program option.

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 nonconsumable 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.

SHC

**GENERAL EDUCATION COURSES:** 

023112		De Critical Colonialist
English	n/Commu	
ENG	102	Applied Communications II
	OR	
ENG	111	Expository Writing
		/Mathematics:
MAT	101	Applied Mathematics I
MAT	OR 115	Mathematical Models
MAI	113	Wathematical Wodels
MAJO	R COUR	SES:
WLD	110	Cutting Processes
WLD	115	SMAW (Stick) Plate5
OR		
WLD	115AC	SMAW (Stick) Plate-AC
WLD WLD	115BC 115CC	SMAW (Stick) Plate-BC
WLD	11300	SMAW (Stick) Plate-CC
WLD	116	SMAW (Stick) Plate/Pipe4
OR		•
WLD	116AB	SMAW (Stick) Plate/Pipe-AB
WLD	116BB	SMAW (Stick) Plate/Pipe-BB
WLD	121	GMAW (MIG) FCAW/Plate4
WLD WLD	131 141	GTAW (TIG) Plate
WLD	141	Symbols & Specifications
WLD OR	215	SMAW (Stick) Pipe
WLD	215AB	SMAW (Stick) Pipe-AB
WLD	215BB	SMAW (Stick) Pipe-BB
WLD	261	Certification Practices 2
OTHE	R REOU	IRED COURSES:
WLD		Inspection & Testing
Total (	Credit H	ours Required39
DEVE		NTAL COURSE REQUIREMENTS*
MAT RED	DMA 03 080	10, DMA 020, DMA 030

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Welding Technology Con't.

Grand Total 9 6 0 12

,	Welding Technology - I Suggested Program S			0	kExp	
Fall - 1st year			Class	Lab	Clin/WkExp	Credit
WLD 110	Cutting Processes		1	3	0	2 2 2
WLD 115AC	SMAW (Stick) Plate-A	C	1	3	0	2
WLD 143	Welding Metallurgy		1	2	0	2
		Total	3	8	0	6
Spring - 1st ye	ear					
WLD 115BC	SMAW (Stick) Plate-Bo	C	1	3	0	2
WLD 115CC	SMAW (Stick) Plate-Co	C	0	3	0	1
WLD 141	Symbols & Specification	ons	0 2 2 2	3 2 2 2	0	2 1 3 3 3
MAT 101	Applied Mathematics I		2	2	0	3
OR	MAT 115 Mathematical	l Models	2	2	0	3
		Total	5	10	0	9
Fall - 2nd year	r					
WLD 116AB	SMAW (Stick) Plate/Pi	pe-AB	1	4	0	2
WLD 116BB	SMAW (Stick) Plate/Pi	pe-BB	0	5	0	2 2 3 3
ENG 102	Applied Communicatio	ns II	3	0	0	3
OR	ENG 111 Expository W	riting	3	0	0	3
		Total	4	9	0	7
Spring - 2nd y						
WLD 121	GMAW (MIG) FCAW/	Plate	2	6	0	4
WLD 215AB		3		4	0	2 2 3
WLD 215BB	SMAW (Stick) Pipe-BE	3	0	5	0	2
WLD 262	Inspection & Testing		2	2	0	3
		Total	5	17	0	11
Fall - 3rd year						
WLD 131	GTAW (TIG) Plate		2	6	0	4
WLD 261	Certification Practices		1	3	0	2
		Total	3	9	0	6
		Grand Total	20	53	0	39

# WELDING TECHNOLOGY Certificate Program (C50420)

MAJOR COURSES:  WLD 110 Cutting Processes  WLD 115AC SMAW (Stick) Plate-AC  WLD 115BC SMAW (Stick) Plate-BC  WLD 115CC SMAW (Stick) Plate-CC  WLD 121 GMAW (MIG) FCAW/Plate  WLD 131 GTAW (TIG) Plate  WLD 141 Symbols & Specifications  Total Credit Hours Required	ite				2 4 4 3
Welding Technology - Certificate •	C50420 - Sug	gesi	ted S	Seq	uence
Fall - 1st year WLD 110 Cutting Processes WLD 115AC SMAW (Stick) Plate-AC	C Total	1 1 2	3 3 6	0 0 0	
Spring - 1st year WLD 115BC SMAW (Stick) Plate-Be WLD 115CC SMAW (Stick) Plate-C		1 0 1	3 3 6	0 0 0	1
Fall - 2nd year WLD 121 GMAW (MIG) FCAW/Pla	te Total	2 2	6	0	4
Spring - 2nd year WLD 141 Symbols & Specifications WLD 131 GTAW (TIG) Plate	Total Grand Total	2 2 4 9	0	0	-

#### **SPECIAL PROGRAMS**

#### Associate in Applied Science Degree Curricula:

Funeral Service Education

#### Diploma Curriculum:

• NC Funeral Director

#### **Certificate Curriculum:**

Truck Driver Training

Special programs are offered on demand in conjunction with other institutions when justified by employment needs and student interest. Details concerning current special programs are included on the following pages. Additional information may be obtained from the college website.

#### FUNERAL SERVICE EDUCATION

A.A.S. Program (A55260) Collaborative Program Catawba Valley Community College/ Fayetteville Technical Community College

Funeral Service Education is an associate degree program offered at CVCC by Fayetteville Technical Community College. The Funeral Service Education courses are offered by FTCC via a live interactive video feed in one of the NC Information Highway classrooms at CVCC, with the general education courses being offered by CVCC. For details, please contact CVCC's Advising Center 828-327-7000, Ext. 4687. The Funeral Service Education curriculum provides students with the opportunity to become proficient in basic funeral service skills. In addition to the general education courses offered in the curriculum, technical courses such as human anatomy, embalming theory and practice, embalming chemistry, restorative arts, funeral law, and funeral home operations are taught. Students in the FTCC Funeral Service Education program are also required to take the National Board Exam for Funeral Service as a condition of Graduation. Graduates of the curriculum, upon passing the state or national exam and completing an internship in a funeral home, will be qualified for employment as embalmers and/or funeral directors. The Associate in Applied Science Degree in Funeral Service Education at Fayetteville Technical Community College is accredited by:

American Board of Funeral Service Education 3432 Ashland Avenue, Suite U • St. Joseph, MO 64506 Telephone: 816-223-3747

#### NC FUNERAL DIRECTOR

Diploma Program (D55260) • Collaborative Program Catawba Valley Community College/ Fayetteville Technical Community College

Funeral Service Education -- NC Funeral Director is a diploma program offered at CVCC by Favetteville Technical Community College, The Funeral Service Education courses are offered by FTCC via a live interactive video feed in one of the NC Information Highway classrooms at CVCC, with the general education courses being offered by CVCC. For details, please contact CVCC's Advising Center 828-327-7000, Ext. 4687. The Funeral Service Education curriculum provides students with the opportunity to acquire the funeral service education necessary to become proficient in basic funeral directing skills. Students completing the diploma are eligible to sit for the NC Board of Funeral Service Funeral Director state exam. This academic program is designed to meet specific state or professional needs. It is not accredited by the American Board of Funeral Service Education owing to the fact that it does not include instruction in the following areas: Anatomy, Chemistry, Embalming, Microbiology and Restorative Arts. Students graduating from this program are not eligible to take the National Board Examination or any state examination for which graduation from an ABFSE accredited program is required.

#### TRUCK DRIVER TRAINING

Certificate Program (C60300) • Collaborative Program Catawba Valley Community College/ Caldwell Community College & Technical Institute

Truck Driver Training is an eight-week certificate program (384 hours) that teaches the basics of professional truck driving. In addition to classroom instruction, students will practice driving range maneuvers along with rural, city, and interstate driving in 18-wheel, tractor-trailer rigs. This program will prepare the student for a beginning career in driving a commercial motor vehicle. Graduates of this program are always in demand. For details, call 828-726-2386 or 828-726-2380. The Truck Driver Training curriculum prepares individuals to drive tractor trailer rigs. This program teaches proper driving procedures, safe driver responsibility, commercial motor vehicle laws and regulations and the basic principles and practices for operating commercial vehicles. The course work includes motor vehicle laws and regulations, map reading, trip planning, vehicle maintenance, safety procedures, daily logs, defensive driving, freight handling, security, and fire protection. Highway driving, training range exercises, and classroom lectures are used to develop the student's knowledge and skills. Graduates of this program will have a Class A driver's license and may be immediately employed by commercial trucking firms. They may also become owners/operators and work as private contract haulers.

#### CAREER AND COLLEGE PROMISE (High School Students)

The Career and College Promise program is established by the State Board of Education and the State Board of Community Colleges.

Career and College Promise provides dual enrollment educational opportunities for eligible North Carolina high school students in order to accelerate completion of college certificates, diplomas, and associate degrees that lead to college transfer or provide entry-level job skills. North Carolina community colleges may offer the following Career and College Promise pathways aligned with the K-12 curriculum and career and college ready standards adopted by the State Board of Education:

- A Core 44 College Transfer Pathway leading to a minimum of 30 hours of college transfer credit
- A Career and Technical Education Pathway leading to a certificate, diploma or degree.

#### **Core 44 College Transfer Pathway**

- 1. The Career and College Promise Core 44 College Transfer Pathway requires the completion of at least thirty semester hours of transfer courses, including English and mathematices.
- 2. To be eligible for enrollment, a high school student must meet the following criteria:
  - a. Be a high school junior or senior;
  - b. Have a weighted GPA of 3.0 on high school courses; and
  - c. Demonstrate college readiness on an assessment or placement test. A student must demonstrate college readiness in English, reading and mathematics to be eligible for enrollment in a Core 44 College Transfer Pathway.
- 3. A high school junior or senior who does not demonstrate college-readiness on an approved assessment or placement test may be provisionally enrolled in a College Transfer Pathway. To qualify for Provisional Status, a student must meet the following criteria:
  - a. Have a cumulative weighted GPA of 3.5;
  - b. Have completed two years of high school English
  - with a grade of 'C' or higher;
    c. Have completed high school Algebra II (or a higher level math class) with a grade of 'C' or higher;
    d. Obtain the written approval of the high school principal
  - or his/her designee; and,
  - e. Obtain the written approval of the community college president or his/her designee.

A Provisional Status student may register only for college mathematics (MAT) and college English (ENG) courses within the chosen Pathway. To be eligible to register for other courses in the Pathway, the student must first successfully complete matematics and English courses with a grade of 'C' or higher.

- 4. To maintain eligibility for continued enrollment, a student must
  - a. Continue to make progress toward high school graduation, and
  - b. Maintain a 2.0 GPA in college coursework after completing two courses.
- 5. A student must enroll in one Core 44 College Transfer Pathway program of study and may not substitute courses in one program for courses in another.
- 6. A student may change his or her program of study major with approval of the high school principal or his/her designee and the college's chief student development
- 7. With approval of the high school principal or his/her designee and the college's chief student development administrator, a student who completes a Core 44 College Transfer Pathway while still enrolled in high school may continue to earn college transfer credits leading to the completion of the 44-hour general education transfer core.
- 8. With approval of the high school principal or his/her designee and the college's chief student development administrator, a student may enroll in both a Core 44 College Transfer Pathway program of study and a Career Technical Education program of study.

#### **Career Technical Education Pathway**

- 1. The Career and College Promise Career Technical Education Pathway leads to a certificate or diploma aligned with a high school Career Cluster.
- 2. To be eligible for enrollment, a high school student must meet the following criteria:
  - a. Be a high school junior or senior;
  - b. Have a weighted GPA of 3.0 on high school courses or have the recommendation of the high school principal or his/her designee; and
  - c. Meet the prerequisites for the career pathway.
- 3. High school counselors should consider students' PLAN scores in making pathway recommendations.
- 4. College Career Technical Education courses may be used to provide partial or full fulfillment of a four-unit career cluster. Where possible, students should be granted articulated credit based on the local or state North Carolina High School to Community College articulation agreement.
- 5. To maintain eligibility for continued enrollment, a student must
  - a. Continue to make progress toward high school graduation, and
  - b. Maintain a 2.0 in college coursework after completing two courses.
- 6. A student must enroll in one program of study and may not substitute courses in one program for courses in an other. The student may change his or her program of study major with approval of the high school principal or his/her designee and the college's chief student development administrator.

#### CORE 44 College Transfer Pathway Humanities and Social Science (P1012A)

Humanities and Social Science (P1012A)	
GENERAL EDUCATION COURSES:	SHC
English/Communication (6 SHC)	
ENG 111 Expository Writing	
ENG 113 Literature-Based Research	3
Humanities/Fine Arts (6 SHC) ART 111 Art Appreciation	3
ENG 232 American Literature II	
Natural Sciences/Mathematics (7 SHC)	
BIO 111 General Biology I	4
MAT 161 College Algebra	3
Social/Behavioral Sciences (6 SHC)	
HIS 121 Western Civilization	
	3
Other Required General Education (6 SHC) COM 231 Public Speaking	3
SPA 111 Elementary Spanish I	
OTHER REQUIRED COURSES (3 SHC)	
ACA 122 College Transfer Success	
MAT 161A College Algebra Lab	
SPA 181 Spanish Lab 1	
Total Credit Hours Required	34
CORE 44 College Transfer Pathway Business and Economics (P1012B)	
GENERAL EDUCATION COURSES:	SHC
English/Communication (6 SHC)	
ENG 111 Expository Writing	3
ENG 113 Literature-Based Research	3
Humanities/Fine Arts (3 SHC)	
ENG 232 American Literature II	3
Natural Sciences/Mathematics (7 SHC) BIO 111 General Biology I	4
MAT 161 College Algebra	
Social/Behavioral Sciences (9 SHC)	
ECO 251 Principles of Microeconomics	3
HIS 121 Western Civilization	
SOC 210 Introduction to Sociology	3
Other Required General Education (6 SHC)	2
CIS 110 Introduction to Computers	
OTHER REQUIRED COURSES (2 SHC)	
ACA 122 College Transfer Success	1
MAT 161A College Algebra Lab	1
Total Credit Hours Required	33
CORE 44 College Transfer Pathway Life and Health Sciences (P1042A)	
GENERAL EDUCATION COURSES:	SHC
English/Communication (6 SHC)	
ENG 111 Expository Writing	
ENG 113 Literature-Based Research	3
Humanities/Fine Arts (3 SHC) ENG 232 American Literature II	3
Natural Sciences/Mathematics (19 SHC)	А
BIO 111 General Biology I	
CHM 151 General Chemistry I	
CHM 152 General Chemistry II	4
MAT 171 Precalculus Algebra	3
Social/Behavioral Sciences (3 SHC) HIS 121 Western Civilization	2
OTHER REQUIRED COURSES (2 SHC)	
ACA 122 College Transfer Success	1
MAT 171A Precalculus Algebra Lab	
Total Credit Hours Required	33

### CORE 44 College Transfer Pathway Engineering and Mathematics (P1042B)

GENER	AL EDI	UCATION COURSES:	SHC					
English/	English/Communication (6 SHC)							
ENG	111	Expository Writing						
ENG	113	Literature-Based Research	3					
Humani	ties/Fine	e Arts (3 SHC)						
ENG	232	American Literature II	3					
Natural	Science	s/Mathematics (14 SHC)						
CHM	151	General Chemistry I	4					
MAT	171	Precalculus Algebra	3					
MAT	172	Precalculus Trigonometry	3					
MAT	271	Calculus I	4					
Social/E	Behavior	ral Sciences (6 SHC)						
HIS	121	Western Civilization	3					
ECO	251	Principles of Microeconomics	3					
OTHER	REQU	IRED COURSES (3 SHC)						
ACA	122	College Transfer Success	1					
MAT	171A	Precalculus Algebra Lab	1					
MAT	172A	Precalculus Trig Lab	1					
Total Cr	edit Ho	urs Required	32					

#### CAREER TECHNICAL CAREER PATHWAY

#### Advertising and Graphic Design • Pathway (C30100P)

CORE	COURS	SES (12 SHC):	SHC
GRA	151	Computer Graphics I	
GRA GRD	152 110	Computer Graphics II	
GRD	121	Drawing Fundamentals I	
GRD	141	Graphic Design I	4
GRD	142	Graphic Design II	4
Total C	redit Ho	ours Required	17

#### Air Conditioning, Heating, and Refrigeration Technology Pathway (D35100P)

SHC

GENERAL EDUCATION COURSES (6 SHC)

ENG	102	Applied Communications II3
MAT	101	Applied Mathematics I
CORE	COURS	ES (20 SHC)
AHR	110	Intro to Refrigeration5
AHR	111	HVACR Electricity
AHR	112	Heating Technology4
AHR	113	Comfort Cooling4
AHR	114	Heat Pump Technology4
OTHER	R MAJO	R COURSES (10 SHC)
AHR	130	HVAC Controls
AHR	160	Refrigerant Certification1
AHR	180	HVACR Customer Relations1
AHR	210	Residential Building Code
AHR	211	Residential System Design3
Total C	redit Ho	urs Required36
DEVEL	OPMEN	NTAL COURSE REQUIREMENTS*
CTS	080	Computing Fundamentals
MAT	DMA 0	10, DMA 020, DMA 0303
RED	080	Intro to College Reading4

*Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

#### Air Conditioning, Heating, and Refrigeration Technology Pathway (C35100P)

	ratilway (C33100F)	
CORE COURS		łС
AHR 110	Intro to Refrigeration	
AHR 112	Heating Technology	
AHR 113 AHR 114	Comfort Cooling  Heat Pump Technology	
Iotal Credit Ho	ours Required	1/
Automo	otive Systems Technology Pathway (D60160P)	
GENERAL EL	DUCATION COURSES (6 SHC) SI	НС
English/Comm	` /	10
ENG 111	Expository Writing	.3
	e/Mathematics:	
MAT 115	Mathematical Models	.3
MAJOR COUI		
CORE COURS	SES (18 SHC) Suspension & Steering Sys	2
AUT 151	Brake Systems	
AUT 181	Engine Performance 1	
TRN 110	Intro to Transport Tech	
TRN 120 TRN 140	Basic TraspElectricity	
	OR COURSES (21 SHC)	. 2
AUT 141A	Suspension & Steering Lab	.1
AUT 151A		
AUT 116 AUT 116A	Engine Repair Engine Repair Lab	
AUT 163	Adv Auto Electricity	
AUT 181A	Engine Performance 1 Lab	.1
AUT 183	Engine Performance 2	.4
AUT 221 AUT 221A	Auto Transm/Transaxles Auto Transm/Transax Lab	.3 1
AUT 231	Man Trans/Axles/Drtrains	
OTHER REQU		
	UIRED COURSES (3 SHC)	
AUT 231A TRN 140A		
	ours Required	
	Qualified Students may elect to take up to 4 credit hours	
cooperative ed	ucation in place of AUT 116A, AUT 141A, AUT 151A, A	UT
181A, AUT 22	21A, AUT 241A.	
	ENTAL COURSE REQUIREMENTS*	
CTS 080	Computing Fundamentals	
ENG 090 MAT DMA	Improved College Reading 010, DMA 020, DMA 030, DMA 040, DMA 050	
RED 090	Improved College Reading	
*Development	al coursework (including all prerequisites) will be required	
students whose	e placement test scores indicate a need for greater proficier	ıcy
	reading, English, mathematics, and computers. Please references	r to
the Course Des	scriptions section for prerequisite course information.	
	Automotive Systems Technology	
	Pathway (C60160P)	
CORE COURS	SES (7 SHC)	2
TRN 110 TRN 120	Intro to Transport Tech	
	OR COURSES (24 SHC)	.5
AUT 141	Suspension & Steering Sys	3
AUT 141A	Suspension & Steering Lab	.1
AUT 151	Brake Systems	.3
AUT 151A	Brake Systems Lab	
	ours Required	17
	ENTAL COURSE REQUIREMENTS*	_
CTS 080	Computing Fundamentals	
MAT DMA 0 RED 090	010, DMA 020, DMA 030 Improved College Reading	
	al coursework (including all prerequisites) will be required	
students whose	e placement test scores indicate a need for greater proficier	ıcy
	reading, English, mathematics, and computers. Please refer	r to
the Course Des	scriptions section for prerequisite course information.	

#### Computer Integrated Machining Technology Pathway (D50210P)

		Pathway (D50210P)	
GENEI ENG		UCATION COURSES (6 SHC) Expository Writing	SHC
MAT	121	Algebra/Trigonometry I	3
CORE MAC		S (16 SHC) CNC Turning	
MAC		CNC Milling	
MAC	131	Blueprint Reading/Mach. I	2
MAC MAC	141 142	Machining Applications I	4
MEC		Intro to CAD/CAM	
	R MAJOR	R COURSES (14 SHC)	
MAC MAC	132 151	Blueprint Reading/Mach. II	2
MAC		Advanced CNC Turning	
MAC	224	Advanced CNC Milling	2
MAC MAC		CAM: CNC Turning	
		RED COURSES (2 SHC)	
CIS 111	1 :	Basic PC Literacy	2
Total C	redit Hou	rs Required	38
	LOPMEN	TAL COURSE REQUIREMENTS*	2
CTS ENG		Computing Fundamentals	
MAT		10, DMA 020, DMA 030	
RED	090	Improved College Reading	4
*Develo	opmentai c olacement	coursework (including all prerequisites) will be required of test scores indicate a need for greater proficiency in the	students areas of
reading,	English, n	nathematics, and computers. Please refer to the Course Des	scriptions
section	ior prerequ	uisite course information.	
		Cosmetology • Pathway (D55140P)	
GENE	RAL EDU		SHC
ENG	102	Applied Communications II	
PSY	150	General Psychology	3
CORE OR	111	SS (41 SHC) Cosmetology Concepts I	4
COS COS	111AB 111BB	Cosmetology Concepts I-AB Cosmetology Concepts I-BB	2
COS OR	112	Salon I	8
COS	112AB	Salon I-AB	
COS	112BB	Salon I-BB	
COS OR	113	Cosmetology Concepts II	
COS	113AB 113BB	Cosmetology Concepts II-BB	2
COS OR	114	Salon II	8
COS COS	114AB 114BB	Salon II-AB Salon II-BB	
COS OR	115	Cosmetology Concepts III	4
COS COS	115AB 115BB	Cosmetology Concepts III-AB	
COS OR	116	Salon III	4
COS COS	116AB 116BB	Salon III-AB	
COS OR	117	Cosmetology Concepts IV	2
COS COS	117AB 117BB	Cosmetology Concepts IV-AB Cosmetology Concepts IV-BB	
COS	118	Salon IV	7
		rs Required	47
	LOPMEN	TAL COURSE REQUIREMENTS*	
RED *Develo	090 opmental c	Improved College Readingoursework (including all prerequisites) will be required or	4 f students

### Criminal Justice Technology Law Enforcement Pathway (C55180P)

]	Law Enforcement Pathway (C55180P)	
CORE COURS	SES (12 SHC)	SHC
CJC 111 CJC 113	Intro to Criminal Justice	
CJC 131	Criminal Law	3
CJC 212	Ethics & Comm Relations	3
CJC 121	JIRED COURSES (3 SHC)	2
	Law Enforcement Operations	
Total Credit Ho	ours Required	15
Criminal Ju	ustice Technology-Latent Evidence Conc Crime Scene Pathway (C5518AP)	entration
CORE COURS	SES (16 SHC)	SHC
CJC 111	Intro to Criminal Justice	3
CJC 144 CJC 146	Crime Scene Processing Trace Evidence	
CJC 221	Investigative Principles	4
CJC 245	Friction Ridge Analysis	3
CJC 114	JIRED COURSES (2 SHC) Investigative Photography	2
	ours Required	
	1	
Electrica	al/Electronics Technology Pathway (C35	5220P)
CORE COURS ELC 112		SHC
ELC 113	Basic Wiring I	4
ELC 115	Industrial Wiring	4
OTHER MAJO BPR 111	OR COURSES (4 SHC) Blueprint Reading	2
ELC 118	National Electrical Code	2
Total Credit Ho	ours Required	
Graphic A	rts and Imaging Technology Pathway (C	(30180P)
CORE COUR	RSES (14 SHC)	SHC
GRA 121	Graphic Arts I	4
GRA 151 GRA 152	Computer Graphics I	
GRA 255	Image Manipulation I	2
GRD 141	Graphic Design I	4
PRN 155	JIRED COURSES (2 SHC) Screen Printing I	2
Total Credit Ho	ours Required	16
Health	Information Technology Pathway (C252	200P)
CORE COURS	SES (12 SHC)	SHC
HIT 110 HIT 112	Fundamentals of HIM Health Law and Ethics	
MED 121	Medical Terminology I	3
MED 122	Medical Terminology II	3
OTHER REQU	JIRED COURSES (3 SHC) Introduction to Computers	2
	ours Required	
Total Cledit IIC	ouis Required	13
	Healthcare Management Technology Receptionist Pathway (C45360P)	
CORE COURS		SHC
HMT 110	Intro to Healthcare Mgt	3
HMT 210	Medical Insurance	
MED 121 MED 122	Medical Terminology I (1st 8 weeks)	3
OST 149	Medical Legal Issues	
	JIRED COURSES (1 SHC)	
MED 114	Prof Interac in Heal Care	
	ours Required	16
	NTAL COURSE REQUIREMENTS*	4
RED 080 *Developmenta	Intro to College Readingal coursework (including all prerequisites) will b	4 e required of
students whose	e placement test scores indicate a need for greate eading, English, mathematics, and computers. P	r proficiency
the Course Des	scriptions section for prerequisite course information	ation.

Hor	ticulture Technology Pathwa	ay (C15240P)			
CORE COURS HOR 160 HOR 162 HOR 164 HOR 168	Plant Materials I	3			
HOR 110 HOR 118 HOR 255	OR COURSES (6 SHC) Intro to Landscaping Equipment Op & Maint Interiorscapes	2			
Photographic Technology Pathway (C30280P)					
CORE COURS PHO 110 PHO 115 PHO 139 PHO 224	SES (14 SHC) Fund of Photography Basic Studio Lighting Intro to Digital Imagining Multimedia Production	4			
Total Credit Hours Required					
RED 090 *Developments students whose in the areas of r	NTAL COURSE REQUIREMEN' Intro to College Reading al coursework (including all prereq e placement test scores indicate a n eading, English, mathematics, and ccriptions section for prerequisite c	uisites) will be required of eed for greater proficiency computers. Please refer to			
WeldingTechnology Pathway (D50420P)					

WeldingTechnology Pathway (D50420P)				
GENER ENG MAT	AL EDU 102 101	Applied Communications II	SHC 3	
WLD WLD	COURSI 110 115	Cutting Processes		
WLD WLD WLD	115AC 115BC 115CC	SMAW (Stick) Plate-AC	2 2 1	
WLD WLD WLD	121 131 141	GTAW (TIG) Plate	4	
ELC WLD	MAJOI 111 116	Intro to Electricity		
WLD WLD	116BB	SMAW (Stick) Plate/Pipe-BB	2	
WLD OR	215	SMAW (Stick) Pipe	4	
WLD	215BB	SMAW (Stick) Pipe-BB	2	
WLD	262	Inspection & Testing	3	
DEVEL MAT RED *Develor students the areas	OPMEN DMA ( 080 pmental whose p	TAL COURSE REQUIREMENTS*  1010, DMA 020, DMA 030  Introduction to College Reading  coursework (including all prerequisites) will be relacement test scores indicate a need for greater profing, English, mathematics, and computers. Please re		
	ENG MAT  CORE O WLD WLD WLD WLD WLD WLD WLD OTHER ELC WLD OR WLD	GENERAL EDUENG 102 MAT 101  CORE COURSE WLD 110 WLD 115 OR WLD 115BC WLD 115BC WLD 131 WLD 131 WLD 141  OTHER MAJOR ELC 111 WLD 116BB WLD 116BB WLD 143 WLD 215 OR WLD 215AB WLD 215AB WLD 261 WLD 262  Total Credit Hot DEVELOPMEN MAT DMA OR RED 080 *Developmental students whose p the areas of readi	GENERAL EDUCATION COURSES (6 SHC) ENG 102 Applied Communications II. MAT 101 Applied Mathematics I  CORE COURSES (18 SHC) WLD 110 Cutting Processes. WLD 115 SMAW (Stick) Plate. OR WLD 115 SMAW (Stick) Plate-AC. WLD 115BC SMAW (Stick) Plate-BC. WLD 115CC SMAW (Stick) Plate-CC. WLD 131 GTAW (TIG) Plate. WLD 131 GTAW (TIG) Plate. WLD 141 Symbols & Specifications. OTHER MAJOR COURSES (18 SHC) ELC 111 Intro Electricity. WLD 16 SMAW (Stick) Plate/Pipe OR WLD 16AB SMAW (Stick) Plate/Pipe-AB. WLD 143 Welding Metallurgy WLD 215 SMAW (Stick) Pipe-AB. WLD 215 SMAW (Stick) Pipe-BB. WLD 215AB SMAW (Stick) Pipe-BB. WLD 261 Certification Practices. WLD 262 Inspection & Testing. Total Credit Hours Required DEVELOPMENTAL COURSE REQUIREMENTS* MAT DMA 010, DMA 020, DMA 030.	