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.

		EDUCATION COURSES: nunications:	SHC
ENG 1		Writing and Inquiry	3
ENG 1	OR	Writing/Research in the Disc ENG 113 Literature-Based Research	
	OR	ENG 114 Prof Research & Reporting	
Humai Electiv	nities/Fii ve	ne Arts:	3
Natura	l Scienc	es/Mathematics:	
MAT		Math Measurement & Literacy	
	OR	MAT 143 Quantitative Literacy	3
Social. Electiv		oral Sciences:	3
	R COUI		
ACC	120	Prin of Financial Accounting	4
ACC	120	Prin of Managerial Accounting	
ACC	129	Individual Income Taxes	
ACC	140	Payroll Accounting	
ACC	150	Accounting Software Appl	
ACC	220	Intermediate Accounting I	4
ACC	225	Cost Accounting	3
ACC	240	Gov & Not-for-Profit Acct	3
BUS	110	Introduction to Business	3
BUS	115	Business Law I	
BUS	116	Business Law II	
CIS	110	Introduction to Computers	
CTS	130	Spreadsheet	
ECO	251	Prin of Microeconomics	3
Α	Accounti	ing Electives6	
		30 Business Income Taxes	
		21 Intermediate Acct II	
		69 Auditing & Assurance Services 3	
	BUS 1	25 Personal Finance	
		39 Entrepreneurship I	
		Employment Law and Regs	
		Entrepreneurship II	
		Funding for Entrepreneurs 3	
		10 International Business	
	WBL 1	10 World of Work 1 XXX Work-Based Learning 1-6	
	WDL A	MAA WORE-DASEU LEATHING	
Total	Credit 1	Hours Required	64
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DDE	000	Integrated Deading Writing III	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 Description section for prerequisite course information.

 098
 Integrated Reading Writing III
 3

 DMA 010, DMA 020, DMA 030, (MAT 110)
 3

DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, (MAT 143)......5

Accounting • A25100 Suggested Program Sequence Day

Fall - 1st year	Class	Lab	Clin/WkExp	Credit
ACC 120 Prin of Financial Accounting BUS 110 Introduction to Business ENG 111 Writing and Inquiry MAT 110 Math Measurement & Literacy OR MAT 143 Quantitative Literacy Social/Behavorial Science Elective Total	3 3 2 2 2 3 14	2 0 0 2 2 0 4	0 0 0 0 0 0	4 3 3 3 3 3 16
Spring - 1st year ACC 121 Principles of Managerial Accounting BUS 115 Business Law I CIS 110 Introduction to Computers ENG 112 Writing/Research in the Disc (Preferred) OR ENG 113 Literature-Based Research OR ENG 114 Prof Research & Development Accounting Elective Total	3 3 2 3 3 3 3 14	2 0 2 0 0 0 0 4	0 0 0 0 0 0 0	4 3 3 3 3 3 16
Fall - 2nd year ACC 129 Individual Income Taxes ACC 220 Intermediate Accounting I ACC 225 Cost Accounting CTS 130 Spreadsheet Humanities/Fine Arts Elective Total	2 3 3 2 3 13	2 2 0 2 0 6	0 0 0 0 0	3 4 3 3 16
Spring - 2nd year ACC 140 Payroll Accounting ACC 150 Accounting Software Appl ACC 240 Gov & Not-for-Profit Acct BUS 116 Business Law II ECO 251 Prin of Microeconomics Accounting Elective	1 1 3 3 3 3	2 2 0 0 0 2	0 0 0 0 0	2 2 3 3 3 3
Total Grand Total	14 55	6 20	0	16 64

DRE

DMA

ACCOUNTING - Diploma Program (D25100)

GENE	CRAL E	EDUCATION COURSES:	SHC
ENG	111	Writing and Inquiry	3
Social	Behavi/	oral Sciences Elective	3
MAJO	OR CO	URSES:	SHC
	120		
ACC	121	Prin of Managerial Accounting	4
ACC	129	Individual Income Taxes	3
ACC	140	Payroll Accounting	2
ACC	150	Accounting Software Appl	2
BUS	110	Introduction to Business	3
BUS	115	Business Law I	3
CIS	110	Introduction to Computers	3
CTS	130	Spreadsheet	3
ECO	251	Prin of Microeconomics	3
Total	Credit	Hours Required	36
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	3
*Deve	lopmen	tal coursework (including all prerequisites) will be requi	red of students
	Î	ant tast assure in diserte a most for another mack along a the	

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) Suggested Sequence

		0 1	,	00		•		
Fall –	1st ve	ear						
		Prin of Financial Accounting	12	3	2	0	4	
		Introduction to Business	8	3	0	0	3	
		Introduction to Computers		2	2	0	3	
ENG		Writing and Inquiry		3 3 2 3	0	0 0 0	3	
		2 1 7	Total	11	4	0	13	
Spring	$\sigma = 1s^{2}$	t vear	10111		•	Ü	13	
		Prin of Managerial Account	ing	3	2	0	4	
		Payroll Accounting	8	1	2	0	2	
		Accounting Software Appl		1 3	2	0 0 0 0	2	
		Business Law I		3	0	0	3	
			Total	8	6	0	11	
Fall -	2nd v	/ear			-	-		
		Individual Income Taxes		2	2	0	3	
CTS	130	Spreadsheet		2	2	0	3	
ECO	251	Prin of Microeconomics		3	2 2 0	0	3	
			Total	7	4	0	9	
Spring	2-2n	d year		,	-	-		
		avorial Science Elective		3	0	0	3	
			Total	3	0	0	3	
		C		_	-		-	
		Grand	l Total	29	14	0	36	

ACCOUNTING

General – Certificate Program (C2510001)

MAJ(DR COU	URSES:	SHC		
ACC	120	Prin of Financial Accounting	4		
ACC	121	Prin of Managerial Accounting	4		
ACC	129	Individual Income Taxes	3		
ACC	140	Payroll Accounting	2		
Total	Credit	Hours Required	13		
DEVELOPMENTAL COURSE REQUIREMENTS*					
CTS	080	Computing Fundamentals	3		
DRE	098	Integrated Reading Writing III	3		
*Deve	lopment	tal coursework (including all prerequisites) will be require	ed 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					
prerea	nisite co	nurse information			

General - Certificate Program • (C2510001) **Suggested Program Sequence Day**

Fall – 1st Year				
ACC 120 Prin of Financial Accounting		2	0	4
ACC 121 Prin of Managerial Accounting	3	2	0	4
Total	6	4	0	8
Spring – 1st Year				
ACC 129 Individual Income Taxes		2	0	3
ACC 140 Payroll Accounting	1	2	0	2
Total	3	4	0	5
Grand Total	9	8	0	13

ACCOUNTING

Computerized – Certificate Program (C2510003)

MAJO	DR CO	URSES:	SHC
ACC	120	Prin of Financial Accounting	4
ACC	150	Accounting Software Appl	2
CIS	110	Introduction to Computers	3
CTS	130	Spreadsheet	3
Total	Credit	t Hours Required	12
DEVE	LOPN	MENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	3
*Deve	lopmer	ntal coursework (including all prerequisites) will be required	of studen

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 – Certificate Program • (C2510003) Suggested Program Sequence Day

Fall – 1st Year	Class	Lab	Clin/WkExp	Credit
ACC 120 Prin of Financial Accounting	3	2	0	4
CIS 110 Introduction to Computers	2	2	0	3
Total	5	4	0	7
Spring – 1st Year				
ACC 150 Accounting Software Appl	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)

CITO

4	
4	
3	
3	
2	
12	2
3	
	2 12

DRE 098 Integrated Reading Writing III *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

Taxation - Certificate Program • (C2510004)

prerequisite course information.

Suggested Program Sequence Day					
Fall – 1st Yea	ar	Class	Lab	Clin/WkExp	Credit
	Prin of Financial Accounting	3	2	0	4
ACC 129 I	Individual Income Taxes	2	2	0	3
	Total	5	4	0	7
Spring – 1st	Year				
	Business Income Taxes	2	2	0	3
ACC 140 I	Payroll Accounting	1	2	$0 \\ 0$	2
	Total	3	4	0	5
	Grand Total	8	8	0	12

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.

English/Communications: 3 ENG 111 Writing and Inquiry. 3 ENG 113 Literature-Based Research 3 OR ENG 114 Prof Research & Reporting 3 Humanities/Fine Arts:	
ENG 113 Literature-Based Research 3 OR ENG 114 Prof Research & Reporting 3 3 Humanities/Fine Arts: 3 Elective 3 MAT 143 Quantitative Literacy 3 OR MAT 152 Statistical Methods I 3 OR MAT 171 Precalculus Algebra 4 Social/Behavioral Sciences: 2 Elective 3 MAJOR COURSES: 3 BUS 110 Introduction to Business 3 GRA 151 Computer Graphics I 2 GRA 151 Computer Graphics III 2 GRA 152 Computer Graphics III 2 GRA 255 Image Manipulation I 2 GRA 255 Image Manipulation I 2 GRD 110 Typography I 3 GRD 121 Drawing Fundamentals I 2 GRD 131 Illustration I 2 GRD 141	
OR ENG 114 Prof Research & Reporting 3 Humanities/Fine Arts: 3 Elective 3 Natural Sciences/Mathematics: 3 MAT 143 Quantitative Literacy 3 OR MAT 152 Statistical Methods I 3 OR MAT 171 Precalculus Algebra 4 Social/Behavioral Sciences: 2 Elective 3 MAJOR COURSES: 3 BUS 110 Introduction to Business. 3 GRA 151 Computer Graphics I. 2 GRA 152 Computer Graphics II. 2 GRA 152 Computer Graphics III. 2 GRA 255 Image Manipulation I. 2 GRA 255 Image Manipulation I. 2 GRD 110 Typography I. 3 GRD 121 Drawing Fundamentals I. 2 GRD 131 Illustration I. 2 GRD 131 Illustration I. 2 GRD 141 Graphic Design II. 4 GRD 142 Graphic Design III.	
Humanities/Fine Arts:	
Elective	
Natural Sciences/Mathematics: MAT	
MAT 143 Quantitative Literacy 3 OR MAT 152 Statistical Methods I 3 OR MAT 171 Precalculus Algebra 4 Social/Behavioral Sciences: 3 Elective 3 3 MAJOR COURSES: 3 BUS 110 Introduction to Business 3 GRA 151 Computer Graphics II 2 GRA 152 Computer Graphics II 2 GRA 153 Computer Graphics III 2 GRA 255 Image Manipulation I 2 GRD 110 Typography I 3 GRD 121 Drawing Fundamentals I 2 GRD 131 Illustration I 2 GRD 131 Illustration I 2 GRD 141 Graphic Design I 4 GRD 142 Graphic Design III 4 GRD 180 Interactive Design Practice 4 GRD 249 Advanced Design Practice 4	
OR MAT 152 Statistical Methods I 3 OR MAT 171 Precalculus Algebra 4 Social/Behavioral Sciences: 3 Elective 3 MAJOR COURSES: 3 BUS 110 Introduction to Business 3 GRA 151 Computer Graphics I 2 GRA 152 Computer Graphics II 2 GRA 153 Computer Graphics III 2 GRA 255 Image Manipulation I 2 GRD 110 Typography I 3 GRD 121 Drawing Fundamentals I 2 GRD 131 Illustration I 2 GRD 131 Illustration I 2 GRD 142 Graphic Design I 4 GRD 142 Graphic Design III 4 GRD 180 Interactive Design III 4 GRD 249 Advanced Design Practice 4 GRD 265 Digital Print Production 3 GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing 3	
OR MAT 171 Precalculus Algebra 4 Social/Behavioral Sciences: Elective 3 MAJOR COURSES: BUS 110 Introduction to Business 3 GRA 151 Computer Graphics I. 2 GRA 152 Computer Graphics II. 2 GRA 153 Computer Graphics III. 2 GRA 255 Image Manipulation I. 2 GRD 110 Typography I. 3 GRD 121 Drawing Fundamentals I. 2 GRD 131 Illustration I. 2 GRD 131 Illustration I. 2 GRD 141 Graphic Design II. 4 GRD 180 Interactive Design III. 4 GRD 241 Graphic Design III. 4 GRD 249 Advanced Design Practice. 4 GRD 280 Portfolio Design. 4 MKT 120 Principles of Marketing. 3 Program Elective OR Work-Based Learning. <td rowspan<="" td=""></td>	
Social/Behavioral Sciences: Elective	
Elective	
MAJOR COURSES: BUS 110 Introduction to Business. 3 GRA 151 Computer Graphics I. 2 GRA 152 Computer Graphics III. 2 GRA 153 Computer Graphics III. 2 GRA 255 Image Manipulation I. 2 GRD 110 Typography I. 3 GRD 121 Drawing Fundamentals I. 2 GRD 131 Illustration I. 2 GRD 131 Illustration I. 2 GRD 141 Graphic Design I. 4 GRD 142 Graphic Design II. 4 GRD 142 Graphic Design III. 4 GRD 249 Advanced Design Practice. 4 GRD 249 Advanced Design Practice. 4 GRD 280 Portfolio Design. 4 MKT 120 Principles of Marketing. 3 Program Elective OR Work-Based Learning. 3	
BUS 110 Introduction to Business. 3 GRA 151 Computer Graphics I. 2 GRA 152 Computer Graphics II. 2 GRA 153 Computer Graphics II. 2 GRA 153 Computer Graphics III. 2 GRA 255 Image Manipulation I. 2 GRD 110 Typography I. 3 GRD 121 Drawing Fundamentals I. 2 GRD 121 Drawing Fundamentals I. 2 GRD 131 Illustration I. 2 GRD 141 Graphic Design II. 4 GRD 142 Graphic Design III. 4 GRD 241 Graphic Design III. 4 GRD 249 Advanced Design Practice. 4 GRD 249 Advanced Design Practice. 4 GRD 250 Digital Print Production. 3 GRD 280 Portfolio Design. 4 MKT </td	
GRA 151 Computer Graphics I 2 GRA 152 Computer Graphics II 2 GRA 153 Computer Graphics III 2 GRA 255 Image Manipulation I 2 GRD 110 Typography I 3 GRD 121 Drawing Fundamentals I 2 GRD 131 Illustration I 2 GRD 131 Illustration I 4 GRD 142 Graphic Design I 4 GRD 142 Graphic Design III 4 GRD 180 Interactive Design Practice 4 GRD 249 Advanced Design Practice 4 GRD 249 Advanced Design Practice 4 GRD 280 Portfolio Design 3 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 Students are required to take 3 SHC from the following: ART 131 Drawing I 3	
GRA 152 Computer Graphics II. 2 GRA 153 Computer Graphics III 2 GRA 255 Image Manipulation I 2 GRD 110 Typography I 3 GRD 121 Drawing Fundamentals I 2 GRD 121 Drawing Fundamentals I 2 GRD 131 Illustration I 2 GRD 142 Graphic Design I 4 GRD 142 Graphic Design II 4 GRD 180 Interactive Design 3 GRD 241 Graphic Design III 4 GRD 249 Advanced Design Practice 4 GRD 249 Advanced Design Practice 4 GRD 280 Portfolio Design 3 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 Students are required to take 3 SHC from the following: 3 ART 131 Drawing I 3 ART 264 Digital Photography I 3	
GRA 153 Computer Graphics III 2 GRA 255 Image Manipulation I 2 GRD 110 Typography I 3 GRD 121 Drawing Fundamentals I 2 GRD 131 Illustration I 2 GRD 141 Graphic Design I 4 GRD 142 Graphic Design II 4 GRD 180 Interactive Design 3 GRD 241 Graphic Design III 4 GRD 249 Advanced Design Practice 4 GRD 265 Digital Print Production 3 GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing. 3 Program Elective OR Work-Based Learning 3 Students are required to take 3 SHC from the following: 3 ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 244 Digital Photography I <t< td=""></t<>	
GRA 255 Image Manipulation I 2 GRD 110 Typography I 3 GRD 121 Drawing Fundamentals I 2 GRD 131 Illustration I 2 GRD 141 Graphic Design I 4 GRD 142 Graphic Design II 4 GRD 180 Interactive Design 3 GRD 241 Graphic Design III 4 GRD 249 Advanced Design Practice 4 GRD 265 Digital Print Production 3 GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 3 Students are required to take 3 SHC from the following: 3 ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 240 Digital Photography I 3 CIS 110 Introduction to Com	
GRD 110 Typography I 3 GRD 121 Drawing Fundamentals I 2 GRD 131 Illustration I 2 GRD 141 Graphic Design I 4 GRD 142 Graphic Design II 4 GRD 180 Interactive Design III 4 GRD 241 Graphic Design III 4 GRD 249 Advanced Design Practice 4 GRD 265 Digital Print Production 3 GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 3 Students are required to take 3 SHC from the following: 3 ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II	
GRD 121 Drawing Fundamentals I 2 GRD 131 Illustration I 2 GRD 141 Graphic Design I 4 GRD 142 Graphic Design III 4 GRD 241 Graphic Design III 4 GRD 249 Advanced Design Practice 4 GRD 265 Digital Print Production 3 GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 Students are required to take 3 SHC from the following: ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3 <	
GRD 131 Illustration I 2 GRD 141 Graphic Design I 4 GRD 142 Graphic Design II 4 GRD 180 Interactive Design 3 GRD 241 Graphic Design III 4 GRD 249 Advanced Design Practice 4 GRD 280 Dortfolio Design 3 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 3 Students are required to take 3 SHC from the following: 3 ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 244 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sa	
GRD 141 Graphic Design I 4 GRD 142 Graphic Design II 4 GRD 180 Interactive Design 3 GRD 241 Graphic Design III 4 GRD 249 Advanced Design Practice 4 GRD 265 Digital Print Production 3 GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 3 ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 231 Printmaking I 3 ART 240 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
GRD 142 Graphic Design II 4 GRD 180 Interactive Design 3 GRD 241 Graphic Design III 4 GRD 249 Advanced Design Practice 4 GRD 265 Digital Print Production 3 GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 Students are required to take 3 SHC from the following: 3 ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
GRD 180 Interactive Design 3 GRD 241 Graphic Design III 4 GRD 249 Advanced Design Practice 4 GRD 265 Digital Print Production 3 GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 Students are required to take 3 SHC from the following: 3 ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
GRD 249 Advanced Design Practice 4 GRD 265 Digital Print Production 3 GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
GRD 265 Digital Print Production 3 GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 Students are required to take 3 SHC from the following: ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
GRD 280 Portfolio Design 4 MKT 120 Principles of Marketing 3 Program Elective OR Work-Based Learning 3 Students are required to take 3 SHC from the following: ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
MKT 120 Principles of Marketing	
Program Elective OR Work-Based Learning 3 Students are required to take 3 SHC from the following: 3 ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
Students are required to take 3 SHC from the following: ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
ART 131 Drawing I 3 ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
ART 231 Printmaking I 3 ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
ART 264 Digital Photography I 3 CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
CIS 110 Introduction to Computers 3 GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
GRA 121 Graphic Arts I 4 GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
GRA 256 Image Manipulation II 2 GRD 271 Multimedia Design I 2 MKT 220 Advertising and Sales Promotion 3	
GRD 271 Multimedia Design I2 MKT 220 Advertising and Sales Promotion3	
MKT 220 Advertising and Sales Promotion3	
PHO 110 Fund of Photography5	
PRN 155 Screen Printing I2	
SGD 111 Introduction to SGD	
SGD 112 SGD Design3	
SGD 114 3D Modeling3	
WBL XXX Work-Based Learning1-3	
WEB 110 Internet/Web Fundamentals	
WEB 111 Intro to Web Graphics	
WEB 120 Intro Internet Multimedia3	
OTHER REQUIRED COURSES:	

Work-Based Learning Option: Qualified students may elect to take up to 3 credit

Total Credit Hours Required 66/67

hours of Work-Based Learning in place of 3 hours Program electives.

DEVELOPMENTAL COURSE REQUIREMENTS*

Advertising and Graphic Design • A30100 Suggested Program Sequence Day

		-	-			
Fall – 1st ACA 11 GRA 15 GRD 14 GRD 11 GRD 12 ENG 11	 College Student Success Computer Graphics I Graphic Design I Typography I Drawing Fundamentals I 	Total	SSEO 1 1 2 2 1 3	qeT 0 3 4 2 3 0 12	0 0 0 0 0 0 Clin/WkExp	1 2 4 3 2 2 3 15
		Total	10	12	U	13
Spring – 1 GRA 15 GRD 14 GRA 25 GRD 13 ENG 11	2 Computer Graphics II 2 Graphic Design II 5 Image Manipulation I 1 Illustration I	& Reporting 3	1 2 1 1 3 0	3 4 3 3 0 0	0 0 0 0 0 3	2 4 2 2 3
		Total	8	13	0	13
MAT 14 OI OI	O Introduction to Business Quantitative Literacy MAT 152 Statistical Meth		3 2 3 3 3	0 2 2 2 0	0 0 0 0 0	3 3 4 4 3
		Total	8/9	2	0	9/10
Fall – 2nd GRA 15 GRD 18 GRD 24 GRD 26 MKT 12	3 Computer Graphics III 0 Interactive Design 1 Graphic Design III 5 Digital Print Production	Total	1 1 2 1 3 8	3 4 4 4 0	0 0 0 0 0	2 3 4 3 3
a : .	.					
GRD 28 Huma	2nd year 9 Advanced Design Practic 0 Portfolio Design nities/Fine Arts Elective m/ Work-Based Learning El		1 2 3	9 4 0	0 0 0	4 4 3 3
		Total	6	13	0	14
	•	Grand Total 4	0/41	55	0	66/67

Program Electives 3 SHC: Must be selected from the following list: ART 131, ART 231, ART 264, CIS 110, GRA 121, GRA 256, GRD 271, MKT 220, MKT 221, PHO 110, PRN 155, SGD 111, SGD 112, SGD 114, WEB 110, WEB 111, WEB 120, WBL XXX.

^{*}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

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.

GENERAL EDUCATION COURSES:SHC
English/Communications:
ENG 102 Applied Communications II
OR ENG 111 Writing and Inquiry3
Natural Sciences/Mathematics:
MAT 110 Math Measurement & Literacy
OR MAT 121 Algebra/Trigonometry I
MAJOR COURSES:
AHR 110 Intro to Refrigeration5
AHR 111 HVACR Electricity
AHR 112 Heating Technology
AHR 113 Comfort Cooling4
AHR 114 Heat Pump Technology
AHR 130 HVAC Controls 3
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
WBL 110 World of Work1
Total Credit Hours Required39
DEVELOPMENTAL COURSE REQUIREMENTS*
CTS 080 Computing Fundamentals
DRE 097 Integrated Reading Writing II
DMA DMA 010, DMA 020, DMA 030 (MAT 110)
DMA DMA 010, DMA 020, DMA 030, DMA 040, DMA 050,
DMA 060 (MAT 121)
*PD 1 (1 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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 • D35100

All Conditioning, Heating and Kerrigeration D33100									
		Suggested Program Sequence Day			kExp				
Fall – 1	lst vea	r	2 2 2	Lab	Clin/WkExp	5 3 4 2			
AHR	110	Intro to Refrigeration (1st 8 weeks)	2	6	0	5			
AHR	111	HVACR Electricity (1st 8 weeks)	2	2	0	3			
AHR	112	Heating Technology (2nd 8 weeks)	2	4	Ŏ	4			
AHR	151	HVAC Duct Systems I	1	3	0	2			
AHR	180	HVACR Customer Relations (2nd 8 weeks)	1	0	0	1			
AHR	211	Residential Systems Design (2nd 8 weeks)	2	2	0	3			
		Total	10	17	0	18			
Spring	– 1st y	year							
AHR	113	Comfort Cooling (2nd 8 weeks)	2	4	0	4			
AHR	210	Residential Building Code (1st 8 weeks)	1	2	0	2 4 3			
AHR	114	Heat Pump Technology (1st 8 weeks)	2 2	4	0	4			
AHR	130	HVAC Controls (2nd 8 weeks)	2	2	0	3			
AHR	160	Refrigerant Certification (2nd 8 weeks)	1	0	0	1			
WBL	110	World of Work	1	0	0	1			
MAT	110	Math Measurement & Literacy	2	2	0	1 3 3			
	OR	MAT 121 Quantitative Literacy	2	2	0	3			
C		Total	11	14	0	18			
Summe	er – Ty								
ENG	102	Applied Communications II	3	0	0	3			
	OR	ENG 111 Writing and Inquiry	3	0	0	3			
		Total	3	0	0	3			
		Grand Total	24	31	0	39			

Air Conditioning, Heating and Refrigeration • D35100 **Evening Courses Are Offered On Demand** (See Your HVAC Advisor)

ENG	102	Applied Communications II	3
	OR	ENG 111 Writing and Inquiry	3
MAT	110	Math Measurement & Literacy	3
		MAT 121 Algebra/Trigonometry I	
AHR	110	Intro to Refrigeration.	5
AHR	111	HVACR Electricity	3
AHR	112	Heating Technology	4
AHR		Comfort Cooling	
AHR	114	Heat Pump Technology	4
AHR	130	HVAC Controls	3
AHR	151	HVAC Duct Systems I	2
AHR	160	Refrigerant Certification	1
AHR	180	HVACR Customer Relations	1
AHR	210	Residential Building Code	2
AHR	211	Residential System Design	3
WBL	110	World of Work	1
Total	Cred	lit Hours Required	39
		MENTAL COURSE REQUIREMENTS*	2
CTS		Computing Fundamentals	
DRE		Integrated Reading Writing II	
		A 010, DMA 020, DMA 030 (MAT 110)	3
		A 010, DMA 020, DMA 030, DMA 040, DMA 050,	
DMA	060 (1	MAT 121)	3
*Deve	lonm	ental coursework (including all prerequisites) will be required of s	tudents

*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

MAJOR CO	URSES:	
AHR	110	Intro to Refrigeration5
AHR	111	HVACR Electricity3
AHR	112	Heating Technology4
AHR	160	Refrigerant Certification

Total	Total Credit Hours Required13							
DEVE	DEVELOPMENTAL COURSE REQUIREMENTS*							
CTS	080	Computing Fundamentals	3					
DRE	097	Integrated Reading Writing II	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.

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

Fall -	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	Refrigerant Certification	1	0	0	1
		Total	7	12	0	13
		Grand Total	7	12	0	13

Air Conditioning, Heating and Refrigeration Certificate • C35100 **Evening Courses Are Offered On Demand** (See Your HVAC Advisor)

		Refrigerant Certification	
AHR AHR		Heating Technology	
AHR	111	HVACR Electricity	3
AHR	110	Intro to Refrigeration	5

1000	Creat Hours required	
DEVE	LOPMENTAL COURSE REQUIREMENTS*	
CTS	080 Computing Fundamentals	. 3
DRE	097 Integrated Reading Writing II	. 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.

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. Coursework 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	Writing and Inquiry3
ENG 112	Writing/Research in the Disc
OR	ENG 114 Prof Research & Reporting
Humanities/	Fine Arts:
Elective	3
Natural Scie	nces/Mathematics:
BIO 168	Anatomy and Physiology I
BIO 169	Anatomy and Physiology II4
Social/Behav	vioral Sciences:
PSY 150	General Psychology
MAJOR CO	OURSES:
BIO 275	Microbiology4
CIS 111	Basic PC Literacy
NUR 111	Intro to Health Concepts8
NUR 112	Health-Illness Concepts 5
NUR 113	Family Health Concepts
NUR 114	Holistic Health Concepts
NUR 211	Health Care Concepts
NUR 211	Health System Concepts 5
NUR 212	Complex Health Concepts 10
PSY 241	Developmental Psych
	it Hours Required
Iotal Cred	it Hours Required/2
	MENTAL COURSE REQUIREMENTS*
CTS 080	
DRE 098	
DMA DM	1A 010, DMA 020, DMA 030, DMA 040, DMA 0505
whose place reading, Eng	ental coursework (including all prerequisites) will be required of students ment test scores indicate a need for greater proficiency in the areas of dish, mathematics, and computers. Please refer to the Course Descriptions rerequisite course information.
	Fine Arts Elective
	nts must select one course from the following:
ART	Tr-
ART	
ART	
HUM	5
MUS	TT
MUS PHI	112 Introduction to Jazz
PHI	
1 111	270 Introduction to Ethics

NOTE: The courses listed in CVCC's Associate Degree Nursing Program have a Uniform Articulation Agreement between the University of North Carolina Registered Nurse to Bachelor of Science in Nursing (RN to BSN) Programs. Students who transfer to senior institutions outside of the University of North Carolina system should contact each college directly for transfer information.

Associate Degree N Suggested Progran	_			kExp	
Fall – 1st year NUR 111 Intro to Health Concepts BIO 168 Anatomy and Physiology I PSY 150 General Psychology CIS 111 Basic PC Literacy	•	3 3 1	qe 7 6 3 0 2	0 0 0 9 Clin/WkExp	8 4 3 2
	Total	11	11	6	17
Spring – 1st year NUR 112 Health-Illness Concepts NUR 114 Holistic Health Concepts BIO 169 Anatomy and Physiology II PSY 241 Developmental Psychology		3 3 3 3	0 0 3 0	6 6 0 0	5 5 4 3
Summer – 1st year	Total	12	3	12	17
NUR 212 Health System Concepts ENG 111 Writing and Inquiry		3	0	6	5 3
Fall – 2nd year	Total	6	0	6	8
NUR 113 Family Health Concepts NUR 211 Health Care Concepts BIO 275 Microbiology Humanities/Fine Arts Elective	Total	3 3 3 3	0 0 3 0	6 6 0 0	5 5 4 3
Spring – 2nd year NUR 213 Complex Health Concepts	Total			15	
NUR 213 Complex Health Concepts ENG 112 Writing/Research in the Disc OR ENG 114 Prof Research & Repor		4 3 3	3 0 0	0	10 3 3
(Students considering transfer to a four-year	-				-
	Total Grand Total	7 48	3 20	51	13 72
Associate Degree Nursing • A45110 S	uggested Prog.	Segu	enc	e Ev	ening
Spring – 1st year		-			
NUR 111 AB Intro to Health Concept	C-AR				
BIO 168 Anatomy and Physiolog CIS 111 Basic PC Literacy		2 3 1	3 2	3 0 0	4 4 2
CIS 111 Basic PC Literacy		3	3	0	4
	gy I Total s-BB	3	3 2	0	4 2
CIS 111 Basic PC Literacy Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog PSY 150 General Psychology	gy I Total s-BB	3 1 6 2 3	3 2 8 3 3	0 0 3 3	4 2 10 4 4
CIS 111 Basic PC Literacy Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog	gy I Total s-BB gy II Total	3 1 6 2 3 3	3 2 8 3 3 0	0 0 3 0 0	4 2 10 4 4 3
Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog PSY 150 General Psychology Fall – 1st year NUR 112 Health-Illness Concepts NUR 114 Holistic Health Concep PSY 241 Developmental Psych	gy I Total s-BB gy II Total	3 1 6 2 3 3 8 3 3	3 2 8 3 3 0 6 0	0 0 3 3 0 0 3 6 6	4 2 10 4 4 3 11 5
Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog PSY 150 General Psychology Fall – 1st year NUR 112 Health-Illness Concepts NUR 114 Holistic Health Concep PSY 241 Developmental Psych Spring – 2nd year NUR 211 Health Care Concepts NUR 212 Health System Concept	Total s-BB sy II Total ts Total	3 1 6 2 3 3 8 3 3 3 9 3 3	3 2 8 3 3 0 6 0 0 0 0	0 0 3 3 0 0 3 6 6 6 0 12 6 6	4 2 10 4 4 3 11 5 5 3 13 5 5
Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog PSY 150 General Psychology Fall – 1st year NUR 112 Health-Illness Concepts NUR 114 Holistic Health Concep PSY 241 Developmental Psych Spring – 2nd year NUR 211 Health Care Concepts	Total s-BB sy II Total ts Total	3 1 6 2 3 3 8 3 3 3 9	3 2 8 3 3 0 6 0 0 0 0	0 0 3 3 0 0 3 6 6 6 0 12 6	4 2 10 4 4 3 11 5 5 3 13 5 5 3
Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog PSY 150 General Psychology Fall – 1st year NUR 112 Health-Illness Concepts NUR 114 Holistic Health Concep PSY 241 Developmental Psych Spring – 2nd year NUR 211 Health Care Concepts NUR 212 Health System Concept	Total s-BB sy II Total ts Total ss Total	3 1 6 2 3 3 8 3 3 3 9 3 3 3	3 2 8 3 3 0 6 0 0 0 0 0	0 0 3 3 0 0 3 6 6 0 12 6 6 0	4 2 10 4 4 3 11 5 5 3 13 5 5 3
Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog PSY 150 General Psychology Fall – 1st year NUR 112 Health-Illness Concepts NUR 114 Holistic Health Concep PSY 241 Developmental Psych Spring – 2nd year NUR 211 Health Care Concepts NUR 212 Health System Concept ENG 111 Writing and Inquiry Summer – 2nd year NUR 113 Family Health Concepts	Total s-BB sy II Total ts Total ss Total	3 1 6 2 3 3 8 3 3 3 9 3 3 9 3	3 2 8 3 3 0 6 0 0 0 0 0 0 0	0 0 3 3 0 0 3 6 6 0 12 6 6 0 12	4 2 10 4 4 3 11 5 5 3 13 5 5 3 13
Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog PSY 150 General Psychology Fall – 1st year NUR 112 Health-Illness Concepts NUR 114 Holistic Health Concep PSY 241 Developmental Psych Spring – 2nd year NUR 211 Health Care Concepts NUR 212 Health System Concept ENG 111 Writing and Inquiry Summer – 2nd year NUR 113 Family Health Concepts	Total s-BB sy II Total Total ss Total ss Total ss Total	3 1 6 2 3 3 8 3 3 3 9 3 3 9	3 2 8 3 3 0 6 0 0 0 0 0 0 0 0 0 0	0 0 3 3 0 0 3 6 6 0 12 6 6 0 12	4 2 10 4 4 3 11 5 5 3 13 5 5 3 13
Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog PSY 150 General Psychology Fall – 1st year NUR 112 Health-Illness Concepts NUR 114 Holistic Health Concep PSY 241 Developmental Psych Spring – 2nd year NUR 211 Health Care Concepts NUR 212 Health System Concept ENG 111 Writing and Inquiry Summer – 2nd year NUR 113 Family Health Concepts BIO 275 Microbiology Fall – 2nd year NUR 213 AB Complex Health Concepts Humanities/Fine Arts Elective	Total s-BB sy II Total Total ss Total ss Total ss Total	3 1 6 2 3 3 8 8 3 3 3 9 3 3 9 3 6 2 2 3 6 6 2 6 2 6 2 6 6 2 6 6 6 6 6	3 2 8 3 3 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 3 3 0 0 3 6 6 0 12 6 0 12 6 7	4 2 10 4 4 3 11 5 5 3 13 5 5 3 13 5 5 5 3 13
Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog PSY 150 General Psychology Fall – 1st year NUR 112 Health-Illness Concepts NUR 114 Holistic Health Concep PSY 241 Developmental Psych Spring – 2nd year NUR 211 Health Care Concepts NUR 212 Health System Concept ENG 111 Writing and Inquiry Summer – 2nd year NUR 113 Family Health Concept BIO 275 Microbiology Fall – 2nd year NUR 213 AB Complex Health Concept Humanities/Fine Arts Elective Spring – 3rd year NUR 213 BB Complex Health Conce ENG 112 Writing/Research in the Incomplex Research & Rese	Total s-BB sy II Total Total Total S Total Total Total Total Total Total S Total pts-AB Total pts-BB Disc (Preferred) eporting	3 1 6 2 3 3 8 3 3 3 9 3 3 3 9 3 6 2 3 5 5 6 6 6 6 7 6 7 6 7 7 8 7 8 7 8 7 8 7 8 7	3 2 8 3 3 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 3 3 0 0 12 6 6 0 12 6 7 0 7	4 2 10 4 4 3 11 5 5 3 13 5 5 3 13 5 4 9
Summer – 1st year NUR 111 BB Intro to Health Concept BIO 169 Anatomy and Physiolog PSY 150 General Psychology Fall – 1st year NUR 112 Health-Illness Concepts NUR 114 Holistic Health Concep PSY 241 Developmental Psych Spring – 2nd year NUR 211 Health Care Concepts NUR 212 Health System Concept ENG 111 Writing and Inquiry Summer – 2nd year NUR 113 Family Health Concept BIO 275 Microbiology Fall – 2nd year NUR 213 AB Complex Health Concept Humanities/Fine Arts Elective Spring – 3rd year NUR 213 BB Complex Health Concept ENG 112 Writing/Research in the E	Total s-BB sy II Total Total Total S Total Total Total Total Total Total S Total pts-AB Total pts-BB Disc (Preferred) eporting	3 1 6 2 3 3 8 3 3 3 9 3 3 3 9 3 6 2 3 5 5 6 6 6 6 7 6 7 6 7 7 8 7 8 7 8 7 8 7 8 7	3 2 8 3 3 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 3 3 0 0 12 6 6 0 12 6 7 0 7	4 2 10 4 4 3 11 5 5 3 13 5 5 3 13 5 4 9

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

Catawba Valley Community College Associate Degree Nursing and Lenoir-Rhyne University

Bachelor 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 420, Transition to Professional Nursing (3 SHC), during the eighth semester. Successful completion of this course results in the awarding of a 39 semester hour block of credit.

GENERAL EDUCATION COURSES:SHC

	nmunications: Writing and Inquiry
ENG 112	Writing/Research in the Disc
Humanities/I	
Elective	3
	nces/Mathematics:
BIO 168 BIO 169	Anatomy and Physiology I
MAT 152	Statistical Methods I
Social/Behav	vioral Sciences:
PSY 150	General Psychology
MAJOR CO	DURSES:
BIO 275	Microbiology4
CIS 111	Basic PC Literacy
NUR 111	Intro to Health Concepts
NUR 112 NUR 113	Health-Illness Concepts 5
NUR 113 NUR 114	Family Health Concepts
NUR 211	Holistic Health Concepts 5
NUR 211 NUR 212	Health Care Concepts
NUR 213	Complex Health Concepts
PSY 241	Developmental Psych
Total Credi	t Hours Required72
	MENTAL COURSE REQUIREMENTS*
CTS 080	Computing Fundamentals
DRE 098	Integrated Reading Writing III
	A 010, DMA 020, DMA 030, DMA 040
	ntal coursework (including all prerequisites) will be required of students
	ment test scores indicate a need for greater proficiency in the areas of
	lish, mathematics, and computers. Please refer to the Course Descriptions rerequisite course information.
section for pr	rerequisite course information.
	ine Arts Elective
	its must select one course from the following:
ART	r r
ART	
ART	
MUS	TT
MUS	112 Introduction to Jazz

Associate Degree Nursing/RIBN • A45110RB Suggested Program Sequence Day

		Suggested Program	Sequenc	e D	ay		
Fall -	1st year			Class	Lab	Clin/WkExp	Credit
BIO CHM CHM ENG PSY FYE	168 131 131A 111 150 191	Anatomy and Physiology Introduction to Chemistry Introduction to Chemistry Writing and Inquiry General Psychology First Year Experience I (L	(BS) Lab (BS)	3 3 0 3 3	3 0 3 0 0	0 0 0 0	4 3 1 3 3 3
IIL	171	That Tear Experience I (E	Total	12	6	0	17
Spring BIO CIS	- 1st yes 169 110 OR	ar Anatomy and Physiology Introduction to Computers	II	3 2	3 0	0	4 3
CIS PED (1 MAT PSY FYE	111	Basic PC Literacy (BS) activity) (BS) Statistical Methods I (BS) Developmental Psych First Year Experience II (I		3 0 3 3	2 2 2 0	0 0 0 0	2 1 4 3 3
			Total 1	1/12	5/9	0	17
Fall - 2 NUR BIO	2nd year 111 275 Foreign	Intro to Health Concepts Microbiology Language (LRU/BS)		4 3	6	6	8 4 3
			Total	7	9	6	15
Spring NUR NUR HEA	- 2nd ye 112 114 110 Foreign	ear Health-Illness Concepts Holistic Health Concepts Personal Health/Wellness Language (LRU/BS)	(BS)	3 3 3	0 0 0	6 6 0	5 5 3 3
			Total	9	0	12	16
Summ NUR ENG	er - 2nd 212 112	year Health System Concepts Writing/Research in the D	isc Total	3 3 6	0 0 0	6 0 6	5 3 8
Fall - 3 NUR NUR REL	3rd year 113 211 100 Fine Ar	Family Health Concepts Health Care Concepts Christian Faith (LRU/BS) ts Elective		3 3	0 0 0	6 6 0	5 5 3 3
			Total	9	0	12	16
Spring NUR COM SOC	3rd year 213 231 XXX	r Complex Health Concepts Public Speaking (BS) Sociology (LRU/BS)	Total	4 3 7	3 0 3	15 0	10 3 3 16
		Grand	Total 6	1/62	23/27	51	105
	• Semes	ster Hour Totals include co	urses take	en at	Lenoir	Rhyn	ie

[·] Semester Hour Totals include courses taken at Lenoir Rhyne

Note: The following courses will be taken at Lenoir-Rhyne University upon completion of the A.A.S. at CVCC.

Fall 4th year NUR 400 NUR 420 NAT 388 Health Assessment of Individuals & Populations (LRU) Transition to Professional Practice (LRU) Environmental Science-Level II (LRU) Humanities Level I (LRU) Total	3 3 3 3 12
Spring 4th year	
NUR 455G Health Promotion with Populations (LRU)	3
NUR 460 Concepts of Leadership in Nursing: (LRU)	4
Theory and Application	
HSB 388 Level II (LRU)	3
OR	
HUM 388 Level II (LRU)	3
NUR Elective-Select Topics (LRU)	3
NOR Elective-select Topics (ERO)	2
Total	12
Summer 4th year	
NUR 435 Concepts of Evidence-Based Practice (LRU)	3
NUR 470 G Trends in Professional Nursing In a Global Society	3
1101X 4700 Tichus in Froicessional Pulising in a Global Society	5
Total	6

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. It 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.

CENEDAL EDUCATION COURSES.

GEN	ERAL	EDUCATION COURSES:SHC
Englis	h/Comi	munications:
ENG	111	Writing and Inquiry
ENG	114	Prof Research & Reporting
	OR	ENG 112 Writing/Research in the Disc
	OR	ENG 113 Literature-Based Research 3
Humai	nities/F	ine Arts:
Electiv	/e	3
Natura	l Scien	ces/Mathematics:
MAT	110	Math Measurement & Literacy
	OR	MAT 143 Quantitative Literacy
Social	/Behavi	ioral Sciences:
Electiv		3
MAJO	OR CO	URSES:
AUT	116	Engine Repair
AUT	116A	Engine Repair Lab1
AUT	141	Suspension & Steering Sys
AUT	141A	Suspension & Steering Lab1
AUT	151	Brake Systems
AUT	151A	Brake Systems Lab
AUT	163	Adv Auto Electricity
AUT	163A	
AUT	181	Engine Performance 1
AUT	181A	
AUT	183	Engine Performance 24
AUT	212	Auto Shop Management
AUT	221	Auto Transm/Transaxles
AUT	221A	
AUT	231	Man Trans/Axles/Drtrains
AUT	231A	
AUT	281	Adv Engine Performance
TRN	110	Intro to Transport Tech
TRN	120	Basic Transp Electricity
TRN	140	Transp Climate Control
TRN	140A	r
TRN	170	Pc Skills for Transp
WBL	110	World of Work

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

Total Credit Hours Required67		
DEVE	LOPMENTAL COURSE REQUIREMENTS*	
CTS	080 Computing Fundamentals	
DRE	098 Integrated Reading Writing III	
DMA	DMA 010, DMA 020, DMA 030, (MAT 110)	
DMA	DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, (MAT 143)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.

Automotive Systems Technology • A60160 Suggested Program Sequence Day

Suggested Program Sequence Da	y		Ş	
	Class	Lab	Clin/WkExp	Credit
Fall – 1st year AUT 116 Engine Repair (1st 8 weeks) AUT 116A Engine Repair Lab (1st 8 weeks) AUT 181 Engine Performance 1 (2nd 8 weeks) AUT 181A Engine Performance 1 Lab (2nd 8 weeks)	2 0 2 0	3 3 3 3	0 0 0 0	3 1 3 1
TRN 110 Intro to Transport Tech TRN 120 Basic Transp Electricity TRN 170 Pc Skills for Transp	1 4 1	2 3 2	0 0 0	2 5 2
Total	10	19	0	17
Spring – 1st year AUT 183 Engine Performance 2 (1st 8 weeks) AUT 151 Brake Systems (2nd 8 weeks) AUT 151A Brake Systems Lab (2nd 8 weeks) AUT 163 Adv Auto Electricity AUT 163A Adv Auto Electricity Lab WBL 110 World of Work	2 2 0 2 0 1	6 3 3 3 0	0 0 0 0 0	4 3 1 3 1
Total	7	18	0	13
Summer – 1st year ENG 111 Writing and Inquiry Social/Behavioral Science Elective	3 3	0 0	0 0	3 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) AUT 212 Auto Shop Management AUT 281 Adv Engine Performance TRN 140 Transp Climate Control (1st 8 weeks) TRN 140A Transp Climate Cont Lab (1st 8 weeks)	2 0 3 2 1 1	3 3 0 2 2 2	0 0 0 0 0	3 1 3 3 2 2
Total	9	12	0	14
Spring – 2nd year AUT 221 Auto Transm/Transaxles (2nd 8 Weeks) AUT 221A Auto Transm/Transax Lab (2nd 8 Weeks) AUT 231 Man Trans/Axles/Drtrains (1st 8 weeks) AUT 231A Man Trans/Ax/Drtrains Lab (1st 8 weeks) MAT 110 Math Measurement & Literacy OR MAT 143 Quantitative Literacy	2 0 2 0 2 2	3 3 3 2 2	0 0 0 0 0	3 1 3 1 3 3
Total	6	14	0	11
Summer – 2nd year ENG 114 Prof Research & Reporting (Preferred) OR ENG 112 Writing/Research in the Disc OR ENG 113 Literature-Based Research Humanities/Fine Art Elective	3 3 3 3	0 0 0 0	0 0 0 0	3 3 3
Total Grand Total	6 44	0 63	0	6 67

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

AUTOMOTIVE SYSTEMS TECHNOLOGY Diploma Program (D60160)

		EDUCATION COURSES:SHC
_		nunications:
	111	Writing and Inquiry
		ces/Mathematics:
MAT	110	Math Measurement & Literacy
	OR	MAT 143 Quantitative Literacy
MAJO	OR CO	URSES:
AUT	116	Engine Repair
AUT	116A	Engine Repair Lab1
AUT	141	Suspension & Steering Sys
AUT	141A	Suspension & Steering Lab
AUT	151	Brake Systems
AUT	151A	Brake Systems Lab
AUT	163	Adv Auto Electricity
AUT	181	Engine Performance 1
AUT	181A	Engine Performance 1 Lab
AUT	183	Engine Performance 2
AUT	221	Auto Transm/Transaxles
AUT	221A	Auto Transm/Transax Lab1
AUT	231	Man Trans/Axles/Drtrains
AUT	231A	Man Trans/Ax/Drtrains Lab
TRN	110	Intro to Transport Tech
TRN	120	Basic Transp Electricity
TRN	140	Transp Climate Control
TRN	140A	Transp Climate Cont Lab
Work-	-Based of Work	ystems Technology Learning Option: Qualified students may elect to take up to 4 credit -Based Learning in place of AUT 116A, AUT 141A, AUT 151A, AUT 21A, or AUT 231A.

10171, 7101 22171, 01 7101 23171.	
Total Credit Hours Required	48
DEVELOPMENTAL COURSE REQUIREMENTS*	
	_

DEVE	LOPN	AENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DMA	DMA	010, DMA 020, DMA 030, (MAT 110)	3
DMA	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050, (MAT 143)	5
DRE	098	Integrated Reading Writing III	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.

Automotive Systems Technology – Diploma • D60160 Suggested Program Sequence Evening

Fall –		ır				
AUT	116	Engine Repair (2nd 8 Wks)	2	3	0	3
AUT	116A	Engine Repair Lab (2nd 8 Wks)	0	3	0	1
TRN	110	Intro to Transport Tech	1	2 3	0	2 5
TRN	120	Basic Transp Electricity (1st 8 Wks)	4	3	0	5
		Total	7	11	0	11
Spring	- 1st	year				
AUT	151	Brake Systems (2nd 8 Wks)	2	3	0	3
AUT	151A	Brake Systems Lab (2nd 8 Wks)	0	3	0	1
AUT	163	Adv Auto Electricity (1st 8 Wks)	2 2 2	3 2 2	0	3 3 3
MAT	110	Math Measurement & Literacy	2	2	0	3
	OR	MAT 143 Quantitative Literacy	2	2	0	3
		Total	6	11	0	10
Fall –	2nd ye	ar				
AUT	181	Engine Performance 1 (1st 8 Wks)	2	3	0	3
AUT	181A	Engine Performance 1 Lab (1st 8 Wks)	0	3	0	1
AUT	231	Man Trans/Axles/Drtrains (2nd 8 Wks)	2	3	0	3
AUT	231A	Man Trans/Axl/Drtrains Lab (2nd 8 Wks)	0	3	0	1
		Total	4	12	0	8
Spring	- 2nd				Ŭ	Ü
AUT	221	Auto Transm/Transaxles (1st 8 Wks)	2	3	0	3
AUT		Auto Transm/Transax Lab (1st 8 Wks)	0	3	0	1
	183	Engine Performance 2 (2nd 8 Wks)	2	6	0	4
ENG	111	Writing and Inquiry	3	0	0	3
		Total	7	12	0	11
Fall -	3rd vea		•		Ŭ	
AUT	141	Suspension & Steering (2nd 8 Wks)	2	3	0	3
AUT		Suspension & Steering Lab (2nd 8 Wks)	0		0	
TRN	140	Transp Climate Control (1st 8 weeks)	1	3 2	0	2
TRN	140A	Transp Climate Cont Lab (1st 8 weeks)	1	2	0	1 2 2
		Total	4	10	0	8
					-	
		Grand Total	28	56	0	48

AUTOMOTIVE SYSTEMS TECHNOLOGY Under Car Services Concentration Cert. Program (C60160)

SHC

TITALO	Cours	sesnC
AUŤ	141	Suspension & Steering Sys
AUT	141A	Suspension & Steering Lab
AUT	151	Brake Systems
AUT	151A	Brake Systems Lab
TRN	110	Intro to Transport Tech2
TRN	120	Basic Transp Electricity5
Tota	l Cred	it Hours Required15
DEVE	LOPMI	ENTAL COURSE REQUIREMENTS*
	LOIM	ENTAL COURSE REQUIREMENTS
		Computing Fundamentals
CTS	080	Computing Fundamentals
CTS DMA	080 C DMA 0	

Automotive Systems Technology – Under Car Services Concentration Certificate Program (C60160) Suggested Sequence

the areas of reading, English, mathematics, and computers. Please refer to the

Course Descriptions section for prerequisite course information.

Fall – 1st Ye	ear				
TRN 110	Intro to Transport Tech	1	2	0	2
TRN 120	Basic Transp Electricity	4	3	0	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	Year				
AUT 151	Brake Systems	2	3	0	3
AUT 151A	Brake Systems Lab	0	3	0	1
	Total	2	6	0	4
	Grand Total	9	17	0	15

Work-Based Learning Option: Qualified students may elect to take up to 2 credit hours of work-based learning in place of AUT 141A, AUT 151A.

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 entrylevel 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:SI	HC
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. Coursework 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.

institutions, and large to small outsiness of industry.
GENERAL EDUCATION COURSES:SHC
English/Communications:
ENG 111 Writing and Inquiry
ENG 112 Writing/Research in the Disc
OR ENG 113 Literature-Based Research 3
OR ENG 114 Prof Research & Reporting
Humanities/Fine Arts:
Elective3
Natural Sciences/Mathematics:
MAT 110 Math Measurement & Literacy
OR MAT 143 Quantitative Literacy
Social/Behavioral Sciences:
Elective 3
Elective
MAJOR COURSES:
ACC 120 Prin of Financial Accounting
ACC 121 Prin in Managerial Accounting
BUS 110 Introduction to Business
BUS 115 Business Law I
BUS 116 Business Law II
BUS 137 Principles of Management 3
BUS 240 Business Ethics
BUS 285 Business Management Issues 3
CIS 110 Introduction to Computers
ECO 251 Prin of Microeconomics 3
ECO 252 Prin of Macroeconomics 3
MKT 120 Principles of Marketing
Business/WBL Electives
24011000// // 22 21001/ 00
Students are required to take 12 SHC from the following:
BUS 125 Personal Finance
BUS 139 Entrepreneurship I
BUS 153 Human Resource Management3
BUS 217 Employment Law and Regs3
BUS 230 Small Business Management
BUS 245 Entrepreneurship II3
BUS 253 Leadership and Mgt Skills
CTS 130 Spreadsheet3
ETR 215 Law for Entrepreneurs
ETR 220 Innovation and Creativity
ETR 230 Entrepreneur Marketing
ETR 240 Funding for Entrepreneurs
INT 110 International Business
MKT 123 Fundamentals of Selling
MKT 220 Advertising and Sales Promotion
MKT 221 Consumer Behavior
MKT 223 Customer Service
WBL 110 World of Work1
WBL XXX Work-Based Learning 1-6

Work-Based Learning Option: Qualified students may elect to take up to 6 credit hours of Work-Based Learning in place of 6 hours Business electives.

Total Credit Hours Required65					
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*			
CTS	080	Computing Fundamentals	3		
DRE	098	Integrated Reading Writing III	3		
DMA	DMA	010, DMA 020, DMA 030, (MAT 110)	3		
DMA	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050, (MAT 143)	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.

Rusiness Administration • A25120

		Business Administra Suggested Program					
Fall – BUS BUS CIS ENG MAT	1st yez 110 137 110 111 110 OR	Introduction to Business Principles of Management Introduction to Computers Writing and Inquiry Math Measurement & Literacy MAT 143 Quantitative Litera		3 3 2 2 2 13	qeT 0 0 2 0 2 2 4	0 0 0 0 0 0 0 Clin/WkExp	3 3 3 3 3 3 15
Spring ACC BUS		Prin of Financial Accounting		3	2	0	4 3
BUS MKT ENG	120	Business Ethics Principles of Marketing Prof Research & Reporting		3 3 3 3	0 0 0	0 0 0	3 3 3
P. II.		ENG 112 or ENG 113	Total	15	2	0	16
Fall – 2 ACC BUS ECO	121 116 251 Busin Busin	ar Prin in Managerial Accountin Business Law II Prin of Microeconomics ness Elective ness Elective al/Behavioral Science Elective	ng	3 3 3 3 3	2 0 0 0 0 0	0 0 0 0 0	4 3 3 3 3 3
Spring	2nd	vegr	Total	18	2	0	19
BUS ECO	285 252 Busi Busi	Business Management Issues	s	2 3 3 3 3	2 0 0 0 0	0 0 0 0	3 3 3 3
			Total	14	2	0	15
Even	ing C	Grand To Business Administra ourses Offered On Deman	ntion • A2512		10 ness	0 Adv	65 v iso 1
ACC ACC	120 121	Prin of Financial Accounti Prin in Managerial Account	ng				

ACC	120	Prin of Financial Accounting	.4
ACC	121	Prin in Managerial Accounting	. 4
BUS	110	Introduction to Business	. 3
BUS	115	Business Law I	. 3
BUS	116	Business Law II	. 3
BUS	137	Principles of Management	. 3
BUS	240	Business Ethics	. 3
BUS	285	Business Management Issues	. 3
CIS	110	Introduction to Computers	. 3
ECO	251	Prin of Microeconomics	. 3
ECO	252	Prin of Macroeconomics	.3
ENG	111	Writing and Inquiry	. 3
ENG	112	Writing/Research in the Disc	. 3
	OR	ENG 113 Literature-Based Research	. 3
	OR	ENG 114 Prof Research & Reporting	. 3
MAT	110	Math Measurement & Literacy	. 3
	OR	MAT 143 Quantitative Literacy	. 3
MKT	120	Principles of Marketing	. 3
Human	ities/Fine	Arts: Elective	. 3
Social/I	Behavioral	Sciences: Elective	. 3
Busines	s/WBL E	lectives1	12
		required to take 12 SHC from the following:	

Students are required to take 12 SHC from the following BUS125, BUS 139, BUS 153, BUS 217, BUS 230, BUS 245, BUS 253, CTS 130, ETR 215, ETR 220, ETR 230, ETR 240, MKT 217, MKT 123, MKT 220, MKT 221, MKT 223, WBL XXX.

Work-Based Learning Option: Qualified students may elect to take up to 6 credit hours of Work-Based Learning in place of 6 hours Business electives.

Total Credit Hours Required6					
DEV	ELOPMENTAL COURSE REQUIREMENTS*				
CTS	080 Computing Fundamentals	3			
DRE	098 Integrated Reading Writing III	3			
	DMA 010, DMA 020, DMA 030, (MAT 110)				
DMA	DMA 010 DMA 020 DMA 030 DMA 040 DMA 050 (MAT 143)	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.

Business Administration Diploma Program • D25120	BUSINESS ADMINISTRATION
GENERAL EDUCATION COURSES:SHC English/Communications:	Advanced Certificate #2 (C2512003) MAJOR COURSES: SHC
ENG 111 Writing and Inquiry	ACC 120 Prin of Financial Accounting
Elective 3 MAJOR COURSES:	CIS 110 Introduction to Computers
ACC 120 Prin of Financial Accounting	ECO 251 Prin of Microeconomics 3 ECO 252 Prin of Macroeconomics 3
BUS 110 Introduction to Business 3 BUS 115 Business Law I 3	Total Credit Hours Required17
BUS 137 Principles of Management 3 BUS 240 Business Ethics 3	DEVELOPMENTAL COURSE REQUIREMENTS*
CIS 110 Introduction to Computers	CTS 080 Computing Fundamentals 3 DRE 098 Integrated Reading Writing III 3
MKT 120 Principles of Marketing	
Business Electives 6 Business Diploma Electives – Must be selected from the following list:	*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
ACC 121, BUS 116, BUS 125, BUS 153, BUS 217, BUS 230, BUS 253, CTS 130, BUS 139, BUS 245, ECO 252, ETR 220, ETR 240, INT 110, MKT 123,	prerequisite course information.
MKT 220, MKT 223, WBL XXX (1 –4 SHC).	Business Administration – Advanced Certificate #2 (C251003)
Total Credit Hours Required37	Сх р
DEVELOPMENTAL COURSE REQUIREMENTS*	C C C C C C C C C C C C C C C C C C C
CTS 080 Computing Fundamentals 3 DRE 098 Integrated Reading Writing III 3	Fall – 1st year
	ACC 120 Prin of Financial Accounting CIS 110 Introduction to Computers ECO 251 Prin of Microeconomics 3 2 0 4 2 2 0 3 3 0 0 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.	Total 8 4 0 10 Spring – 1st year
Business Administration • D25120 Suggested Program Sequence	Spring – 1st year ACC 121 Prin of Managerial Accounting ECO 252 Prin of Macroeconomics 3 2 0 4 3 0 0 3
Fall – 1st year BUS 110 Introduction to Business 3 0 0 3	Total 6 2 0 7
BUS 137 Principles of Management 3 0 0 3 CIS 110 Introduction to Computers 2 2 0 3 ENG 111 Writing and Inquiry 3 0 0 3	Grand Total 14 6 0 17
ENG 111 Writing and Inquiry 3 0 0 3 Total 11 2 0 12	
Spring – 1st year ACC 120 Prin of Financial Accounting 3 2 0 4	
BUS 115 Business Law I 3 0 0 3	BUSINESS ADMINISTRATION
MKT 120 Principles of Marketing 3 0 0 3	Customer Service Certificate Program (C2512004) MAJOR COURSES: SHC
Fall – 2nd year Total 12 2 0 13	BUS 110 Introduction to Business
ECO 251 Prin of Microeconomics 3 0 0 3 Business Elective 3 0 0 3	MKT 120 Principles of Marketing
Business Elective 3 0 0 3 Total 9 0 0 9	MKT 223 Customer Service 3
Spring – 2nd year Social/Behavioral Science Elective 3 0 0 3	Total Credit Hours Required12
Total 3 0 0 3	Business Administration – Customer Service Cert (C2512004)
Grand Total 35 4 0 37	Fall – 1st year BUS 110 Intro to Business 3 0 0 3
BUSINESS ADMINISTRATION General Cert. Prog. (C2512001)	MKT 223 Customer Services 3 0 0 3
MAJOR COURSES: SHC BUS 110 Introduction to Business	Total 6 0 0 6 Spring – 1st year
BUS 115 Business Law I	MKT 120 Principles of Marketing 3 0 0 3
MKT 120 Principles of Marketing	MKT 221 Consumer Behavior 3 0 0 3 Total 6 0 0 6
Total Credit Hours Required	Grand Total 12 0 0 12
Business Administration – General Certificate (C2512001) Fall – 1st year	
BUS 110 Intro to Business 3 0 0 3 MKT 120 Prin of Marketing 3 0 0 3	DUCINIESS ADMINISTDATION
Total 6 0 0 6	BUSINESS ADMINISTRATION Marketing Certificate Program (C2512005)
Spring – 1st year BUS 115 Business Law I 3 0 0 3	MAJOR COURSES: SHC
BUS 137 Prin of Management 3 0 0 3 Total 6 0 0 6	BUS 110 Introduction to Business
Grand Total 12 0 0 12	MKT 123 Fundamentals of Selling
BUSINESS ADMINISTRATION Advancded Cert. #1 (C2512002)	Total Credit Hours Required
MAJOR COURSES: SHC	-
ACC 120 Prin of Financial Accounting	Business Administration – Marketing Certificate (C2512005)
BUS 115 Business Law I 3 BUS 137 Principles of Management 3	Fall – 1st year
Total Credit Hours Required13	BUS 110 Introduction to Business 3 0 0 3 MKT 123 Fundamentals of Selling 3 0 0 3
Business Administration – Advanced Certificate #1 (C2512002) Fall – 1st year	Total 6 0 0 6
BUS 110 Introduction to Business 3 0 0 3	Spring – 1st year MKT 120 Principles of Marketing 3 0 0 3
BUS 137 Principles of Management 3 0 0 3 Total 6 0 0 6	MKT 220 Advertising and Sales Promotion 3 0 0 3
Spring – 1st year ACC 120 Prin of Financial Accounting 3 2 0 4	Total 6 0 0 6
BUS 115 Business Law I 3 0 0 3	Grand Total 12 0 0 12
Total 6 2 0 7 Grand Total 12 2 0 13	

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

	r	
GENERA	L EDUCATION COURSES:S	HC
English/Con	nmunications:	
ENG 111	Writing and Inquiry	
ENG 114	Prof Research & Reporting	3
OR	ENG 112 Writing/Research in the Disc	3
OR	ENG 113 Literature-Based Research	3
Humanities/ Elective	Fine Arts:	3
Natural Scie	ences/Mathematics:	
	Precalculus Algebra	
	MAT 121 Algebra/Trigonometry I	3
Social/Beha Elective	vioral Sciences:	3
MAJOR CO	0.00000	
CTS 120	Hardware/Software Support	
OR		
CIS 110	Introduction to Computers	3
CSC 134		
DFT 117	Technical Drafting	
EGR 110	Intro to Engineering Tech.	
ELC 138	DC Circuit Analysis	
ELC 139	· · · · J · · · · · · · · · · ·	
ELC 229	rr - J	
ELN 131	Analog Electronics I	
ELN 132	Analog Electronics II	
ELN 133	Digital Electronics	
ELN 233	Microprocessor Systems	
MAT 172		4
OR	MAT 122 Algebra/Trigonometry II	
NET 125	Networking Basics	
PHY 151	College Physics I	
OR	PHY 131 Physics-Mechanics	
CET Electiv		6
	s are required to take a minimum of 6 SHC from the following:	
CET	211 Computer Upgrade/Repair II	
CSC CSC	139 Visual BASIC Programming	
CTS	130 Spreadsheet 3	
NOS	110 Operating System Concepts 3	
	120 Linux/UNIX Single User	
	133 Physics-Sound & Light	
WEB	110 Internet/Web Fundamentals	

Work-Based Learning Option: Qualified students may elect to take 2 credit hours of Work-Based Learning in place of ELC 229.

Physics Note: Students planning to transfer to a 4-year college should consider taking PHY 151 or PHY 131, and PHY 133. Please see your Computer Engineering Technology advisor.

Total Credit Hours Required				
DEVE	LOPMENTAL COURSE REQUIREMENTS*			
CTS	080 Computing Fundamentals	3		
DRE	098 Integrated Reading Writing III	3		
DMA	DMA 010, DMA 020, DMA 030, DMA 040, DMA 050,			
	DMA 060 (MAT 121)	6		
DMA	DMA 010, DMA 020. DMA 030, DMA 040, DMA 050,			
	DMA 065, (MAT 171)	7		

^{*}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 Technology • A40160 Suggested Program Sequence Day

	Suggested Program	Sequence I	Day			
					χb	
					Clin/WkExp	
			SS	_	\$	Credit
Fall – 1st year	ar		Class	Lab	Ċ	Č
CIS 110	Introduction to Comput	erc	2	2	0	3
CSC 134	C++ Programming	CIS	2	3	0	3
			1	2	0	
DFT 117	Technical Drafting	.1.			-	2 2
EGR 110	Intro to Engineering Tec	cn	1	2	0	
ELC 138	DC Circuit Analysis		3	3	0	4
MAT 171	Precalculus Algebra		3	2	0	4
OR	MAT 121 Algebra/Trigo	onometry I	2	2	0	3
		Total	11/12	14	0	17/10
		Total	11/12	14	U	17/18
Spring – 1st	vear					
ELC 139	AC Circuit Analysis		3	3	0	4
ELN 131	Analog Electronics I		3	3	0	4
			3	0	0	3
ENG 111	Writing and Inquiry		2	-	-	
MAT 172	Precalculus Trigonomet		3	2	0	4
OR	MAT 122 Algebra/Trigo	onometry II	2	2	0	3
NET 125	Networking Basics		1	4	0	3
		Total	12/13	12	0	17/10
		Total	12/13	12	U	17/18
Summer – 1s	st vear					
ENG 114	Prof Research and Repo	rting (Profer	red) 3	0	0	3
	110 Research and Repo		3	0	0	3
				0		2
	113 Literature-Based Re	esearch	3	-	0	3
Human	ities/Fine Arts Elective		3	0	0	3
		Total	6	0	0	6
		Total	O	U	U	O
Fall – 2nd ye	ear					
CTS 120	Hardware/Software Sup	nort	2	3	0	3
OR	CET 111 Computer Upg			3	0	3
ELN 132	Analog Electronics II	grade/ Repair		3	0	4
ELN 132 ELN 133			3	3	0	4
	Digital Electronics			2		-
PHY 151	College Physics I		3		0	4
OR	PHY 131 Physics-Mech	ianics	3	2	0	4
		Total	11	11	0	15
		Total	11	11	U	13
Spring – 2nd	l vear					
ELC 229	Applications Project		1	3	0	2
ELN 233	Microprocessor System	c	3	3	0	4
CET EI		3	2	3	0	3
CET EI			2	3	0	3
_				_		
Social/I	Behavioral Science Electi	ve	3	0	0	3
		Total	11	12	0	15
	(Grand Total	51/53	49	0	70/72
				.,	,	

Computer Engineering Technology • A40160 Evening Courses Are Offered On Demand (See Your Computer Engineering Tech. Advisor)

CTS	120	T T T T T T T T T T T T T T T T T T T	
CIC	OR	CET 111 Computer Upgrade/Repair I	
CIS	110	Introduction to Computers	
CSC	134	C++ Programming	
DFT	117	Technical Drafting	
EGR	110	Intro to Engineering Tech	
ELC	138	DC Circuit Analysis	
ELC	139	AC Circuit Analysis	
ELC	229	Applications Project	
ELN	131	Analog Electronics I	
ELN	132	Analog Electronics II	
ELN	133	Digital Electronics	4
ELN	233	Microprocessor Systems	
ENG	111	Writing and Inquiry	3
ENG	114	Prof Research & Reporting	3
	OR	ENG 112 Writing/Research in the Disc	3
	OR	ENG 113 Literature-Based Research	3
MAT	171	Precalculus Algebra	3
	OR	MAT 121 Algebra/Trigonometery I	3
MAT	172	Precalculus Trigonometry	
	OR	MAT 122 Algebra/Trigonometry II	
NET	125	Networking Basics	
PHY	151	College Physics I	
	OR	PHY 131 Physics-Mechanics	
Llumon		Fine Arts:	•••••••••••••••••••••••••••••••••••••••
Electiv		riile Atts.	3
Social/	Behav	vioral Sciences:	
Social/ Electiv		vioral Sciences:	3
Electiv	e		
Electiv CET E	e lective	es	6
Electiv CET E	e lective udents	es s are required to take a minimum of 6 SHC from the following	6 ::
Electiv CET E	e lective udents CET	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II	6 :: 3
Electiv CET E	e lective udents CET CSC	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II	6 :: 3 3
Electiv CET E Str	lective udents CET CSC CSC	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming	3
Electiv CET E Str	lective udents CET CSC CSC CTS	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming. 151 JAVA Programming. 130 Spreadsheet	6 :: 3 3 3
Electiv CET E Str	e lective udents CET CSC CSC CTS	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming	
Electiv CET E Str	lective udents CET CSC CSC CTS	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming	
Electiv CET E Str	e lective udents CET CSC CSC CTS	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming. 151 JAVA Programming. 130 Spreadsheet 110 Operating System Concepts	
Electiv CET E Str	e lective udents CET CSC CSC CTS NOS	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming 151 JAVA Programming 130 Spreadsheet 110 Operating System Concepts 120 Linux/UNIX Single User 133 Physics-Sound & Light	
Electiv CET E Sti	e lective udents CET CSC CSC CTS NOS NOS PHY WEB	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming. 151 JAVA Programming. 130 Spreadsheet	
Electiv CET E Sti	e lective udents CET CSC CTS NOS NOS PHY WEB Based k-Bas	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming 151 JAVA Programming 130 Spreadsheet 110 Operating System Concepts 120 Linux/UNIX Single User 133 Physics-Sound & Light 110 Internet/Web Fundamentals 11 Learning Option: Qualified students may elect to take 2 creed Learning in place of ELC 229.	
Elective CET E Str. Work- of Wor Physic	e lective udents CET CSC CSC CTS NOS NOS PHY WEB Based k-Bases Not	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming	
Elective CET E Str. Work- of Wor Physic taking	e lective udents CET CSC CSC CTS NOS NOS PHY WEB Based k-Bas S Not PHY	es s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming	
Elective CET E Str. Work- of Wor Physic taking	e lective udents CET CSC CSC CTS NOS NOS PHY WEB Based k-Bas S Not PHY	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming	
Str. Str. Str. Str. Str. Str. Str. Str.	e e lectivoudents CET CSC CSC CTS NOS NOS PHY WEB Based k-Bas s Not PHY	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming. 151 JAVA Programming. 130 Spreadsheet. 110 Operating System Concepts. 120 Linux/UNIX Single User. 133 Physics-Sound & Light. 110 Internet/Web Fundamentals. 14 Learning Option: Qualified students may elect to take 2 cre ed Learning in place of ELC 229. 129 Est Students planning to transfer to a 4-year college should students. 151 or PHY 131, and PHY 133. Please see your Computer Enactives.	
Elective CET E Str. Work- of Wor Physic taking Technol Total	e lective udents CET CSC CSC CTS NOS PHY Basec k-Bas s Not PHY CTeD CTED CTED CTED CTED CTED CTED CTED CTE	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming	
Elective CET E Str. Work- of Wor Physic taking Technol Total	e lective udents CET CSC CSC CTS NOS PHY Basec k-Bas s Not PHY CTeD CTED CTED CTED CTED CTED CTED CTED CTE	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming	
Elective CET E Str. Work- of Wor Physic taking Technol Total	e lective udents CET CSC CSC CTS NOS PHY Basec k-Bas s Not PHY CTeD CTED CTED CTED CTED CTED CTED CTED CTE	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming	
Elective CET E Str. Work- of Wor Physic taking Techno Total C	e e lective widents cET CSC CSC CTS NOS PHY BBasec k-Base S Not PHY CTedit CTED	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming	
Elective CET E Str. Work- of Wor Physic taking Techno Total C DEVE CTS	e lective udents CET CSC CSC CSC CTS NOS NOS PHY WEB Basec k-Bas s Not PHY OBO CTedia CT	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming. 151 JAVA Programming. 130 Spreadsheet. 110 Operating System Concepts. 120 Linux/UNIX Single User 133 Physics-Sound & Light. 110 Internet/Web Fundamentals. 11 Learning Option: Qualified students may elect to take 2 cre 12 de Learning in place of ELC 229. 13 it Students planning to transfer to a 4-year college should 151 or PHY 131, and PHY 133. Please see your Computer Er 15 advisor. 16 Hours Required	
Elective CET E Str. Work- of Wor- Physic taking Technol Total C DEVE CTS DRE	e lectivu udents CET CSC CSC CTS NOS NOS PHY WEB Basec k-Bass PHY ology Credi LOPP 080 098 DM.	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming. 151 JAVA Programming. 130 Spreadsheet	
Work-of Wor Physic taking Technot Total (DEVE CTS DRE DMA	e lectivu udents CET CSC CSC CTS NOS NOS NOS PHY WEB Basect k-Bass s Not PHY llogy a Credi LOPP 080 098 DM. DM.	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming. 151 JAVA Programming. 130 Spreadsheet	
Elective CET E Str. Work- of Wor- Physic taking Technol Total C DEVE CTS DRE	e lective udents CET CSC CSC CTS NOS NOS PHY WEB Basec k-Bas s Not PHY O80 080 DM. DM. DM.	s are required to take a minimum of 6 SHC from the following 211 Computer Upgrade/Repair II 139 Visual BASIC Programming. 151 JAVA Programming. 130 Spreadsheet	

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. Coursework 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.

			CATION COURSES:	SHC
		nmunica		
ENG	111	Writing	g and Inquiry	3
ENG	114	Prof Re	esearch & Reporting	3
				3
		Fine Art		2
Electi		0.6	a	3
			athematics:	2
			tative Literacy	3
Electi		viorai So	ciences:	2
Electi	ve			3
MAJ	OR CO	OURSE	S:	
CIS	110	Introdu	ection to Computers	3
CIS	115		Prog & Logic	
CTS	115		s Business Concept	
CTS	120	Hardw	are/Software Support	3
CTS	130		sheet	
CTS	285	System	s Analysis & Design	3
CTS	289	System	Support Project	3
DBA			se Concepts	
DBA		Databa	se Applications	3
DBA	120		se Programming I	
NET	125	Netwo	rking Basics	3
NOS	110	Operat	ing System Concepts.	3
NOS	130		ws Single User	
NOS	230	Windo	ws Administration I	3
SEC	110	Securit	y Concepts	3
WBL		Work-I	Based Learning	2
	ammin	σ Electi	ve	2
Tiogra			t select one course from the following:	
	CSC	134		
		134	C++ Programming	
_	CSC			_
Progra	am Ele			3
	CET	211	Computer Upgrade/Repair II	
	CIS	277	Network Design & Imp	
	CSC	234	Advanced C++ Programming	
	CSC	239 220	Advanced Visual BASIC Prog	
		126	Oracle DB Programming II 3 Routing Basics 3	
		175		
	NOS		Wireless Technology	
	NOS		Windows Administration II	
	NOS		Operating Sytem – AS/400	
	SEC	150	Secure Communications 3	
	SEC	160	Secure Administration I 3	
	~	XXX	Work-Based Learning 1-3	

Work-Based Learning Option: Qualified students may elect to take 3 additional credit hours of Work-Based Learning in place of 3 hours program electives.

Total	Total Credit Hours Required68						
DEVE	LOPMENTAL COURSE REQUIREMENTS*						
CTS	080 Computing Fundamentals	3					
DRE	098 Integrated Reading Writing III	3					
	DMA 010, DMA 020, DMA 030, 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.

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.

^{*}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 • Suggested Program Sequence D		kExp 09
Fall – 1st year CIS 110 Introduction to Computers CIS 115 Intro to Prog & Logic DBA 110 Database Concepts NOS 110 Operating System Concepts Total		Credit Credit 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Spring – 1st year CSC 139/134 Visual BASIC OR C++ Programming DBA 115 Database Applications CTS 120 Hardware/Software Support NOS 130 Windows Single User WBL XXX Work-Based Learning Total		3 0 3 2 0 3 3 0 3 2 0 3 0 20 2 10 20 14
Summer – 1st year ENG 111 Writing and Inquiry MAT 143 Quantitative Literacy Social/Behavioral Science Elective Total	2 3	0 0 3 2 0 3 0 0 3 2 0 9
Fall – 2nd year CTS 130 Spreadsheet CTS 285 Systems Analysis & Design DBA 120 Database Programming I NET 125 Networking Basics NOS 230 Windows Administration I SEC 110 Security Concepts Total	3 2 1	2 0 3 0 0 3 2 0 3 4 0 3 2 0 3 2 0 3 12 0 18
Spring – 2nd year 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	1 3 3 3 3 13	0 0 3 4 0 3 0 0 3 0 0 3 0 0 3 0 0 3 4 0 15
Grand Total Computer Information Technology •	A2520	39 20 68 6 0
Fall – 1st year CIS 110 Introduction to Computers SEC 110 Security Concepts	2 2	2 0 3 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 3 2 2 7	4 0 6 0 0 3 3 0 3 3 0 3 6 0 9
Summer – 1st year ENG 111 Writing and Inquiry MAT 143 Quantitative Literacy Total	3 2 5	$ \begin{array}{cccc} 0 & 0 & 3 \\ 2 & 0 & 3 \\ 2 & 0 & 6 \end{array} $
Fall – 2nd year CIS 115 Intro to Prog & Logic CTS 130 Spreadsheet DBA 110 Database Concepts NET 125 Networking Basics Total	2 2 2 1 7	3 0 3 2 0 3 3 0 3 4 0 3 12 0 12
Spring – 2nd year DBA 115 Database Applications NOS 130 Windows Single User Total	2 2 4	2 0 3 2 0 3 4 0 6
Summer – 2nd year ENG 114 Prof Research & Reporting OR ENG 113 Literature-Based Research WBL XXX Work-Based Learning Social/Behavioral Science Elective Total	3	0 0 3 0 0 3 0 20 2 0 0 3 0 20 8
Fall – 3rd year CTS 285 Systems Analysis & Design DBA 120 Database Programming I NOS 230 Windows Administration I Total	3 2 2 7	$\begin{array}{cccc} 0 & 0 & 3 \\ 2 & 0 & 3 \\ 2 & 0 & 3 \\ 4 & 0 & 9 \end{array}$
Spring – 3rd year CTS 289 System Support Project CTS 120 Hardware/Software Support	1 2 2	4 0 3 3 0 3 7 0 6
Summer – 3rd year Program Elective Humanities/Fine Arts Elective Total Grand Total	3 3 6 49	7 0 6 0 0 3 0 0 3 0 0 6 39 20 68

COMPUTER INFORMATION TECHNOLOGY Certificate Program (C25260)

MAJO	OR C	OURSES:SHC
CIS	110	Introduction to Computers
CTS	115	Info Sys Business Concepts
CTS	130	Spreadsheet
DBA	110	Database Concepts
DBA	115	Database Applications
Total	Cred	it Hours Required15
DEVE	LOP	MENTAL COURSE REQUIREMENTS*
		Computing Fundamentals
DRE	098	Integrated Reading Writing III

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

COMPUTER INFORMATION TECHNOLOGY Database Certificate (C2526001) Suggested Sequence

MAJO	OR CO	URSES:SI	НC
		Database Concepts	
		Database Applications	
DBA	120	Database Programming I	3
		Oracle DB Programming II	
Total (Credit	Hours Required	.12

Computer Information Technology – Database Certificate (C2526001) Suggested Sequence

Fall – 1st y DBA 110	ear Database Concepts	T. 4.1	2	3	0	3
Spring 1	et voor	Total	2	3	U	3
DBA 115	st year Database Applications	Total	2	2	0	3
Fall – 2nd	year Database Programming I		_	_		_
		Total	2	2	0	3
Spring – 2r	nd year Oracle DB Programming I					
DBA 220	Oracle DB Programming I	I Total	2	3	$0 \\ 0$	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 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 high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

		DUCATION COURSES: Snications:	НС
ENG	111	Writing and Inquiry	
ENG	114		
	OR OR	ENG 112 Writing/Research in the Disc	3
		ENG 113 Literature-Based Research	3
	ities/Fine		
Electiv	e		3
Natural	Sciences	s/Mathematics:	
MAT	121	Algebra/Trigonometry I	3
Social	Behavior	ral Sciences:	
Electiv	e		3
MAJO	R COUR		
CIS	110	Introduction to Computers	2
	OR	CIS 111 Basic PC Literacy	
ISC	112	Industrial Safety	2
MAC	122	CNC Turning	2
MAC	124	CNC Milling	
MAC	131	Blueprint Reading/Mach I	
MAC	132 141	Blueprint Reading/Mach II	
MAC MAC	141	Machining Applications I	
MAC	142	Machining Applications II	
MAC	151	Machining Calculations	
MAC	222	Advanced CNC Turning	
MAC	224	Advanced CNC Milling	
MAC	231	CAM: CNC Turning	3
MAC	232	CAM: CNC Milling	3
MAC	233	Appl in CNC Machining	6
MAC MAC	234 241	Adv Multi-Axis Machin	
MAC	241	Jigs & Fixtures I	
MEC	110	Intro to CAD/CAM	
MEC	142	Physical Metallurgy.	
WBL	110	World of Work	

Work-Based Learning Option: Qualified students may elect to take 4–6 credit hours of Work-Based Learning in place of MAC 233 or MAC 242.

Total Credit Hours Required					
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*			
CTS	080	Computing Funamentals	3		
DRE	098	Integrated Reading Writing III	3		
DMA	DMA	.010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060	6		

^{*}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.

Co	mputer-Integrated Machining Technolog		A50	210)
	Suggested Program Sequence Da	y		Exp	
				Clin/WkExp	.=
Fall – 1st	vear	Class	Lab	Zin/	Credit
ISC 11		2	0	0	2
MAC 13		1	2	0	2 2
MAC 14		2	6	0	4
MAC 14		2	6	0	4
MAC 15		1	2	0	2
CIS 11		2	2	0	2
O		1	2	0	3
	_	9/10	18	0	16/17
Spring – 1	st year				
	2 CNC Turning (1st 4 Wks)	1	3	0	2
MAC 22	2 (1	3	0	2
MAC 13		1	2	0	2
MAC 12		1	3	0	2
MAC 22		1	3	0	2
MAT 12		2	2	0	3
WBL 11	0 World of Work	1	0	0	1
	Total	8	16	0	14
Cummar	1st year				
Summer – ENG 11	-	3	0	0	2
MEC 11		1	2	0	2
	3 Machining Applications III	2	6	0	4
141710 11	Total	6	8	0	9
	10	Ü			
Fall – 2nd	year				
MAC 23	1 CAM:CNC Turning	1	4	0	3
MAC 23	2 CAM:CNC Milling	1	4	0	3
MAC 24	1 Jigs & Fixtures I	2	6	0	4
H	manities/Fine Arts Elective	3	0	0	3
	Total	7	14	0	13
Spring – 2					
MAC 23	E	2	3	0	3
MAC 24	ε	1	9	0	4
MEC 14	3 63	1	2	0	2
Sc	cial/Behavioral Science Elective	3	0	0	3
	Total	7	14	0	12
Summer -	2nd year				
ENG 114	Literature-Based Research (Preferred)	3	0	0	3
0			0	0	3
Ol	_	3	0	0	3
MAC 23		2	12	0	6
1,1110 25	Total	5	12	0	9
	Grand Total 4	2/43	82	0	73/74

Computer-Integrated Machining Technology Diploma (D50210)

GENERA	L EDUCATION COURSES:	SHC				
English/Con	English/Communications:					
ENG 111	Writing and Inquiry	3				
Natural Scie	nces/Mathematics:					
MAT 121	Algebra/Trigonometry I	3				
MAJOR CO	OURSES:					
CIS 111	Basic PC Literacy	2				
OR						
MAC 122						
MAC 124	CNC Milling	2				
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	2				
MAC 222	Advanced CNC Turning	2				
MAC 224	Advanced CNC Milling	2				
MEC 110	Intro to CAD/CAM	2				
WBL 110	World of Work	1				
	ProgramElective					
MAC						
MAC	=== ===================================					
MAC	=					
1.120	142 Physical Metallurgy					
WBL	XXX Work-Based Learning					

Work-Based Learning Option: Qualified students may elect to take up to 4 credit hours of work-based learning in place of Programming electives.

Total (redit	Hours Required	39/40
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	097	Integrated Reading Writing II	3
DMA	DMA	A 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060	

*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** Clin/WkEx Fall – 1st year CIS 111 Basic PC Literacy 2 0 2 2 CIS 110 Introduction to Computers 2 0 OR MAC 131 Blueprint Reading/Mach I MAC 141 Machining Applications MAC 142 Machining Applications MAC 151 Machining Calculations 2 6 4 Machining Applications I 0 2 Machining Applications II 0 4 2 0 2 Program Elective 3 10/11 18 0 17/18 Total Spring – 1st year MAC 122 CN MAC 222 Ad MAC 132 Blu MAC 124 CN CNC Turning (1st 4 Wks) Advanced CNC Turning (2nd 4 Wks) 3 0 2 2 2 Blueprint Reading/Mach II 0 CNC Milling (3rd 4 Wks) 3 0 1 2 3 Advanced CNC Milling (4th 4 Wks) MAC 224 0 121 Algebra/Trigonometry I 2 0 MAT World of Work WBL 110 0 1 Program Elective Total 11 16 0 17 Summer – 1st year ENG 111 Writing and Inquiry 2 MEC 110 Intro to CAD/CAM 2 0 Total 4 2 0 5 **Grand Total** 25/26 36 0 39/40

Computer-Integrated Machining Technology – Diploma • D50210 Courses Are Offered On Demand/Evening (See Your CIM Advisor)

		,				
CIS	111	Basic PC Literacy	,			
	OR	CIS 110 Introduction to Computers	,			
ENG	111	Writing and Inquiry3	,			
MAC	122	CNC Turning	2			
MAC	124	CNC Milling	2			
MAC	131	Blueprint Reading/Mach I	2			
MAC	132	Blueprint Reading/Mach II	2			
MAC	141	Machining Applications I4	ŀ			
MAC	142	Machining Applications II4	ŀ			
MAC	151	Machining Calculations	2			
MAC	222	Advanced CNC Turning				
MAC	224	Advanced CNC Milling				
MEC	110	Intro to CAD/CAM	2			
WBL	110	World of Work	L			
Natural	Sciences	s/Mathematics:				
MAT	121	Algebra/Trigonometry I	5			
*CIM/	WBL Pro	gramElective6	,			
1	MAC 23	1 CAM: CNC Turning				
1	MAC 232					
-	MAC 24					
	MEC 142					
,	WBL XX	XX Work-Based Learning1-4				
Worl	Work-Based Learning Option: Qualified students may elect to take up to 4 credit					
hours	hours of work-based learning in place of Programming electives.					

Total Credit Hours Required					
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*			
CTS	080	Computing Fundamentals	3		
DRE	097				
DMA	DMA	. 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060			

*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 Cert. Prog. (C50210) MAJOR COURSES:

MAC 122	CNC Turning	2				
MAC 124	CNC Milling	2				
MAC 131	Blueprint Reading/Mach I	2				
MAC 141	Machining Applications I	4				
MAC 151	Machining Calculations	2				
MEC 110	Intro to CAD/CAM	2				
Total Credit Hours Required14						
DEVELOPMENTAL COURSE DECUIDEMENTS*						

DEVELOPMENTAL COURSE REQUIREMENTS*	
CTS 080 Computing Fundamentals	3
DRE 097 Integrated Reading Writing II	3
MAT DMA 010, DMA 020, 030	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.

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

Fall – 1st 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	1	2	0	2
MEC 110 Intro to CAD/CAM	1	2	0	2
Grand Total	7	18	0	14

Computer-Integrated Machining Technology Evening (C50210) Courses Are Offered On Demand (See Your CIM Advisor)

CNC Turning

		Croc running	
MAC	124	CNC Milling	2
MAC	131	Blueprint Reading/Mach I	2
MAC	141	Machining Applications I	4
MAC	151	Machining Calculations	2
MEC	110	Intro to CAD/CAM	2
Total (Credit	Hours Required	14
		Hours Required ENTAL COURSE REQUIREMENTS*	14
		ENTAL COURSE REQUIREMENTS*	
DEVE	LOPM	ENTAL COURSE REQUIREMENTS* Computing Fundamentals	3
DEVE CTS	LOPM 080 097	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.

MAC 122

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 EDUCATION COURSES:.....SHC

ENG 111 Writing and Inquiry .3 ENG 114 Prof Research & Reporting .3 OR ENG 113 Literature-Based Research .3 Humanities/Fine Arts: Elective .3 Natural Sciences/Mathematics: MAT 143 Quantitative Literacy .3 Social/Behavioral Sciences: Elective .3 MAJOR COURSES: CIS 110 Introduction to Computers .3 CIS 115 Intro to Prog & Logic .3 CSC 131 R RPG Programming .3 CSC 132 N Visual BASIC Programming .3 CSC 134 Visual C++ Programming .3 CSC 238 Advanced RPG Programming .3 CSC 239 Advanced Visual BASIC Programming .3 CSC 239 Advanced Visual BASIC Programming .3 CSC 239 Advanced Project .3 CSC 239 Advanced Project .3 CSC 239 Advanced Project .3 CSC 259 Programming Capstone Project .3 CSC 310 Database Pr	Englis	h/Comn	nunications:
OR	ENG	111	Writing and Inquiry
Humanities/Fine Arts:	ENG	114	Prof Research & Reporting
Humanities/Fine Arts:		OR	ENG 113 Literature-Based Research
Elective	Humai	nities/Fi	
Natural Sciences/Mathematics: MAT 143 Quantitative Literacy 3 Social/Behavioral Sciences:			
MAT 143 Quantitative Literacy 3 Social/Behavioral Sciences: Elective 3 Elective 3 3 MAJOR COURSES: CIS 110 Introduction to Computers 3 CIS 115 Intro to Prog & Logic 3 CSC 138 RPG Programming 3 CSC 139 Visual BASIC Programming 3 CSC 141 Visual C++ Programming 3 CSC 134 C++ Programming 3 CSC 238 Advanced RPG Programming 3 CSC 239 Advanced Visual BASIC Prog 3 CSC 239 Programming Capstone Project 3 CTS 115 Info Sys Business Concepts 3 CTS 130 Spreadsheet 3 CTS 130 Spreadsheet 3 CTS 130 Spreadsheet 3 CTS 130 Spreadsheet 3 CTS 285			
Social/Behavioral Sciences:			
MAJOR COURSES: CIS	MAI	143	Quantitative Literacy
MAJOR COURSES: CIS	Social	/Behavi	oral Sciences:
CIS 110 Introduction to Computers 3 CIS 115 Intro to Prog & Logic 3 CSC 138 RPG Programming 3 CSC 139 Visual BASIC Programming 3 CSC 141 Visual C++ Programming 3 OR CSC 134 C++ Programming 3 CSC 238 Advanced RPG Programming 3 CSC 239 Advanced Visual BASIC Prog. 3 CSC 239 Programming Capstone Project 3 CTS 115 Info Sys Business Concepts 3 CTS 130 Spreadsheet 3 CTS 130 Derating System	Electiv	/e	3
CIS 115 Intro to Prog & Logic 3 CSC 138 RPG Programming 3 CSC 139 Visual BASIC Programming 3 CSC 141 Visual C+P Programming 3 CSC 141 Visual C+P Programming 3 CSC 238 Advanced PPG Programming 3 CSC 239 Advanced Visual BASIC Prog. 3 CSC 239 Advanced Visual BASIC Prog. 3 CSC 289 Programming Capstone Project 3 CTS 115 Info Sys Business Concepts 3 CTS 130 Spreadsheet 3 CTS 285 Systems Analysis & Design 3 NBA 110 Database Concepts 3 NBA 110 Operating System Concepts 3 NOS 240 Operating System Concepts 3 NOS 244 Operating System Asian Concepts 3 NOS 244 Operating System Asian Concepts	MAJO	DR COL	JRSES:
CSC 138 RPG Programming 3 CSC 139 Visual BASIC Programming 3 CSC 141 Visual C++ Programming 3 OR CSC 134 C++ Programming 3 CSC 238 Advanced RPG Programming 3 CSC 239 Advanced Visual BASIC Prog 3 CSC 289 Programming Capstone Project 3 CTS 115 Info Sys Business Concepts 3 CTS 130 Spreadsheet 3 CTS 130 Spreadsheet 3 CTS 130 Spreadsheet 3 CTS 130 Spreadsheet 3 CTS 285 Systems Analysis & Design 3 NBT 110 Database Concepts 3 NOS 210 Operating System Concepts 3 NOS 244 Operating System Concepts 3 NOS 244 Operating System Concepts 3 SEC 110	CIS	110	Introduction to Computers
CSC 139 Visual BASIC Programming 3 CSC 141 Visual C++ Programming 3 OR CSC 134 C++ Programming 3 CSC 238 Advanced RPG Programming 3 CSC 239 Advanced Visual BASIC Prog 3 CSC 289 Programming Capstone Project 3 CTS 115 Info Sys Business Concepts 3 CTS 130 Spreadsheet 3 CTS 285 Systems Analysis & Design 3 DBA 110 Database Concepts 3 NET 125 Networking Basics 3 NOS 110 Operating System Concepts 3 NOS 244 Operating System Concepts 3 NOS 244 Operating System Concepts 3 SCC 110 Security Concepts 3 Programming Elective 3 3 SCC 151 JAVA Programming 3 DBA 120	CIS	115	Intro to Prog & Logic
CSC 141 Visual C++ Programming 3 OR CSC 134 C++ Programming 3 CSC 238 Advanced RPG Programming 3 CSC 239 Advanced Visual BASIC Prog. 3 CSC 289 Programming Capstone Project 3 CTS 115 Info Sys Business Concepts 3 CTS 130 Spreadsheet 3 CTS 285 Systems Analysis & Design 3 DBA 110 Database Concepts 3 NET 125 Networking Basics 3 NOS 110 Operating System Concepts 3 NOS 244 Operating System - AS/400 3 SEC 110 Security Concepts 3 NOS 244 Operating System - AS/400 3 SEC 110 Security Concepts 3 Students must select 3 SHC from the following courses: CSC CSC 151 JAVA Programming 3 DBA <td< td=""><td></td><td></td><td></td></td<>			
OR CSC 134 C++ Programming 3 CSC 238 Advanced RPG Programming 3 CSC 239 Advanced Visual BASIC Prog 3 CSC 289 Programming Capstone Project 3 CTS 115 Info Sys Business Concepts 3 CTS 130 Spreadsheet 3 CTS 285 Systems Analysis & Design 3 DBA 110 Database Concepts 3 NET 125 Networking Basics 3 NOS 110 Operating System Concepts 3 NOS 244 Operating System Concepts 3 SEC 110 Security Concepts 3 Students must select 3 SHC from the following courses: CSC 151 JAVA Programming 3 CSC 151 JAVA Programming I 3 3 DBA 120 Database Applications 3 3 DBA 120 Database Programming I 3 3 SGD <td></td> <td></td> <td></td>			
CSC 238 Advanced RPG Programming 3 CSC 239 Advanced Visual BASIC Prog. 3 CSC 289 Programming Capstone Project 3 CTS 115 Info Sys Business Concepts 3 CTS 130 Spreadsheet 3 CTS 285 Systems Analysis & Design 3 DBA 110 Database Concepts 3 NET 125 Networking Basics 3 NOS 110 Operating System Concepts 3 NOS 244 Operating System Concepts 3 SEC 110 Security Concepts 3 Programming Elective 3 3 Students must select 3 SHC from the following courses: CCC 151 JAVA Programming 3 CSC 151 JAVA Programming I 3 3 DBA 120 Database Applications 3 3 SGD 112 SGD Design 3 3 SGD 1	CSC		
CSC 239 Advanced Visual BASIC Prog. 3 CSC 289 Programming Capstone Project 3 CTS 115 Info Sys Business Concepts. 3 CTS 130 Spreadsheet 3 CTS 285 Systems Analysis & Design 3 DBA 110 Database Concepts 3 NET 125 Networking Basics 3 NOS 110 Operating System Concepts 3 NOS 244 Operating System Concepts 3 NOS 244 Operating System Concepts 3 NOS 244 Operating System Concepts 3 SEC 110 Security Concepts 3 Students must select 3 SHC from the following courses: 3 CSC 151 JAVA Programming 3 DBA 115 Database Programming 3 DBA 120 Database Programming 3 SGD 111 Introduction to SGD 3 S	aaa		
CSC 289 Programming Capstone Project 3 CTS 115 Info Sys Business Concepts 3 CTS 130 Spreadsheet 3 CTS 285 Systems Analysis & Design 3 DBA 110 Database Concepts 3 NET 125 Networking Basics 3 NOS 110 Operating System Concepts 3 NOS 244 Operating System Concepts 3 NOS 244 Operating System AS/400 3 SEC 110 Security Concepts 3 Programming Elective 3 3 Students must select 3 SHC from the following courses: CSC 151 JAVA Programming I 3 DBA 115 Database Applications 3 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 Students are required to take one (1) course from the following: 1 CSC 151 JAVA Prog			
CTS 115 Info Sys Business Concepts. 3 CTS 130 Spreadsheet. 3 CTS 285 Systems Analysis & Design. 3 DBA 110 Database Concepts. 3 NET 125 Networking Basics. 3 NOS 110 Operating System Concepts. 3 NOS 244 Operating System Concepts. 3 SEC 110 Security Concepts. 3 SEC 110 Security Concepts. 3 Programming Elective 3 3 CSC 151 JAVA Programming. 3 DBA 125 Database Applications. 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD. 3 SGD 112 SGD Design 3 SUdents are required to take one (1) course from the following: CSC 151 JAVA Programming. 3 DBA 115 Database Applications. 3 3 3 DBA 120 Database Applica			
CTS 130 Spreadsheet			Info Sya Business Concents
CTS 285 Systems Analysis & Design 3 DBA 110 Database Concepts 3 NET 125 Networking Basics 3 NOS 110 Operating System Concepts 3 NOS 244 Operating System Concepts 3 SEC 110 Security Concepts 3 Programming Elective 3 3 CSC 151 JAVA Programming 3 Students must select 3 SHC from the following courses: 3 3 CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 DBA 120 Database Programming 3 SGD 114 3D Modeling 3 SGD 114 3D Modeling 3 DBA 125 Database Applications 3 DBA 125 Database Applications 3 DBA 125 Database Applications 3 DBA 125 Dat			
DBA 110 Database Concepts 3 NET 125 Networking Basics 3 NOS 110 Operating System Concepts 3 NOS 244 Operating System - AS/400 3 SEC 110 Security Concepts 3 Programming Elective 3 3 Students must select 3 SHC from the following courses: CSC CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 DBA 115 Database Applications 3 DBA 115 Database Applications 3 DBA 115 Database Applications 3 DBA 12 Database Applications 3 SGD 11 Introduction to SGD <td></td> <td></td> <td></td>			
NET 125 Networking Basics 3 NOS 110 Operating System Concepts 3 NOS 244 Operating System – AS/400 3 SEC 110 Security Concepts 3 Programming Elective 3 3 CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 112 SGD Design 3 Students are required to take one (1) course from the following: CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 3 3 DBA 115 Database Applications 3 3 3 DBA 120 Database Applications 3 3 3 3 3 3 3 3 3 3 <td></td> <td></td> <td></td>			
NOS 110 Operating System Concepts			
NOS 244 Operating System – AS/400 3 SEC 110 Security Concepts 3 Programming Elective 3 3 Students must select 3 SHC from the following courses: CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 3 3 DBA 120 Database Programming I 3			Operating System Concepts
SEC 110 Security Concepts	NOS	244	Operating System – AS/400
Students must select 3 SHC from the following courses: CSC 151 JAVA Programming	SEC	110	Security Concepts
CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 Programming/Work-Based Learning Elective 1-3 Students are required to take one (1) course from the following: CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 DBA 120 Database Applications 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 WBL XXX Work-Based Learning 1-3 Work-Based Learning Option: Qualified students may elect to take 1-3 credit hours of Work-Based Learning in place of Programming elective OTHER REQUIRED COURSES: ACA			
DBA 115 Database Applications 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 Programming/Work-Based Learning Elective 1-3 Students are required to take one (1) course from the following: CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 WBL XXX Work-Based Learning 1-3 Work-Based Learning Option: Qualified students may elect to take 1-3 credit hours of Work-Based Learning in place of Programming elective. OTHER REQUIRED COURSES: ACA 111 College Student Success 1 Total Credit Hours Required </td <td></td> <td></td> <td></td>			
DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 Programming/Work-Based Learning Elective 1-3 Students are required to take one (1) course from the following: CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 DBA 120 Database Applications 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 WBL XXX Work-Based Learning 1-3 Work-Based Learning Option: Qualified students may elect to take 1-3 credit hours of Work-Based Learning in place of Programming elective. OTHER REQUIRED COURSES: ACA 111 College Student Success 1 Total Credit Hours Required			
SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 Programming/Work-Based Learning Elective 1-3 Students are required to take one (1) course from the following: CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 112 SGD Design 3 WBL XXX Work-Based Learning 1-3 Work-Based Learning Option: Qualified students may elect to take 1-3 credit hours of Work-Based Learning in place of Programming elective. OTHER REQUIRED COURSES: ACA 111 College Student Success 1 Total Credit Hours Required 68/70 DEVELOPMENTAL COURSE REQUIREMENTS* CTS 080 Computing Fundamentals 3			Database Applications 3
SGD 112 SGD Design 3 SGD 114 3D Modeling 3 Programming/Work-Based Learning Elective 1-3 Students are required to take one (1) course from the following: 3 CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 WBL XXX Work-Based Learning 1-3 Work-Based Learning Option: Qualified students may elect to take 1-3 credit hours of Work-Based Learning in place of Programming elective. OTHER REQUIRED COURSES: ACA 111 College Student Success 1 ACA 111 College Student Success 1 Total Credit Hours Required 68/70 DEVELOPMENTAL COURSE REQUIREMENTS* 2 CTS 080 Computing Fundamentals 3 DRE 098 Integrated Reading Writing III 3 <td></td> <td></td> <td></td>			
SGD 114 3D Modeling 3 3			
Programming/Work-Based Learning Elective 1-3 Students are required to take one (1) course from the following: 3 CSC 151 JAVA Programming 3 DBA 115 Database Applications 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 WBL XXX Work-Based Learning 1-3 Work-Based Learning Option: Qualified students may elect to take 1-3 credit hours of Work-Based Learning in place of Programming elective. OTHER REQUIRED COURSES: 3 ACA 111 College Student Success 1 Total Credit Hours Required 68/70 DEVELOPMENTAL COURSE REQUIREMENTS* 3 CTS 080 Computing Fundamentals 3 DRE 098 Integrated Reading Writing III 3			
Students are required to take one (1) course from the following: CSC 151 JAVA Programming			Ç .
Students are required to take one (1) course from the following: CSC 151 JAVA Programming	Progra	mming/	Work-Based Learning Elective1-3
DBA 115 Database Applications. 3 DBA 120 Database Programming I 3 SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 WBL XXX Work-Based Learning 1-3 Work-Based Learning Option: Qualified students may elect to take 1-3 credit hours of Work-Based Learning in place of Programming elective. OTHER REQUIRED COURSES: ACA 111 College Student Success 1 Total Credit Hours Required 68/70 DEVELOPMENTAL COURSE REQUIREMENTS* CTS 080 Computing Fundamentals 3 DRE 098 Integrated Reading Writing III 3		Student	s are required to take one (1) course from the following:
DBA 120			51 JAVA Programming
SGD 111 Introduction to SGD 3 SGD 112 SGD Design 3 SGD 114 3D Modeling 3 WBL XXX Work-Based Learning 1-3 Work-Based Learning Option: Qualified students may elect to take 1-3 credit hours of Work-Based Learning in place of Programming elective. OTHER REQUIRED COURSES: ACA 111 College Student Success 1 Total Credit Hours Required 68/70 DEVELOPMENTAL COURSE REQUIREMENTS* CTS 080 Computing Fundamentals 3 DRE 098 Integrated Reading Writing III 3			
SGD 112 SGD Design			20 Database Programming 1
SGD 114 3D Modeling			
WBL XXX Work-Based Learning			
hours of Work-Based Learning in place of Programming elective. OTHER REQUIRED COURSES: ACA 111 College Student Success		WBL 2	
hours of Work-Based Learning in place of Programming elective. OTHER REQUIRED COURSES: ACA 111 College Student Success	Wor	·k_Rase	d Learning Ontion: Qualified students may elect to take 1-3 credit
OTHER REQUIRED COURSES: ACA 111 College Student Success			
ACA 111 College Student Success. 1 Total Credit Hours Required. 68/70 DEVELOPMENTAL COURSE REQUIREMENTS* CTS 080 Computing Fundamentals. 3 DRE 098 Integrated Reading Writing III 3			
Total Credit Hours Required			QUIRED COURSES:
DEVELOPMENTAL COURSE REQUIREMENTS* CTS 080 Computing Fundamentals			College Student Success
CTS 080 Computing Fundamentals			•
CTS 080 Computing Fundamentals	DEVE	LOPM	ENTAL COURSE REQUIREMENTS*
	CTS	080	Computing Fundamentals
DMA DMA 010, DMA 020, DMA 030, DMA 040, DMA 0505		098	Integrated Reading Writing III
	DMA	DMA	010, DMA 020, DMA 030, DMA 040, DMA 0505

*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 Programming • A25130 Suggested Program Sequence Day

Suggesteu Frogram Sequence Da	y			
Fall – 1st year	Class	Lab	Clin/WkExp	Credit
ACA 111 College Student Success CIS 110 Introduction to Computers CIS 115 Intro to Prog & Logic DBA 110 Database Concepts	1 2 2 2 1	0 2 3 3 4	0 0 0 0	1 3 3 3 3
NET 125 Networking Basics Total	8	12	0	13
Spring – 1st year CSC 141 Visual C++ Programming OR CSC 134 C++ Programming	2	3	0	3
CTS 115 Info Sys Business Concepts NOS 110 Operating Systems Concepts NOS 244 Operating Systems – AS/400 Program Elective	3 2 2 3	0 3 2 0	0 0 0 0	3 3 3 3
Total	12	8	0	15
Summer – 1st year ENG 111 Writing and Inquiry MAT 143 Quantitative Literacy Humanities/Fine Arts Elective	3 2 3	0 2 0	0 0 0	3 3 3
Total	8	2	0	9
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	3 3 3 3 3
Total	11	10	0	15
Spring – 2nd year ENG 114 Prof Research & Reporting OR ENG 113 Literature-Based Research CSC 289 Programming Capstone Project CSC 238 Advanced RPG Programming CSC 239 Advanced Visual BASIC Programming Social/Behavioral Science Elective Programming/WBL Elective	3 1 2 2 3 0	0 0 4 3 3 0 0	0 0 0 0 0 0	3 3 3 3 3 1/3
Total	11	10	0	16/18
Grand Total	50	42	0	68/70

COMPUTER PROGRAMMING - Cert. Prog. (C25130)

MAJO	OR COURSES:	SHC
CIS	115 Intro to Prog & Logic	3
	139 Visual BASIC Programming	
	141 Visual C++ Programming	
	239 Advanced Visual BASIC Prog	
Total	Credit Hours Required	12
DEVI	CLOPMENTAL COURSE REQUIREMENTS*	
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.

Computer Programming - Cert. Suggested Sequence (C25130)

Fall – 1st year				
CIS 115 Intro to Prog & Logic	2	3	0	3
Total	2	3	0	3
Spring – 1st 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 – 2nd year				
CSC 239 Advanced Visual BASIC Prog	2	3	0	3
Total	2	3	0	3
Grand Total	8	12	0	12

COSMETOLOGY Diploma Program (D55140)

Courses required to meet graduation requirements in this curriculum are offered during evening hours. All courses, state hours, and state performances 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 competency-based 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 developmental courses, English, and psychology will be taught on the CVCC campus. Instruction and course materials are available in Spanish.

course	muccin	iis are avanable in Spanish.	
GENE	RAL EI	DUCATION COURSES:	SHO
English	/Commur	nications:	
ENG	102	Applied Communications II	3
Social/I	Behaviora	d Sciences:	
PSY	150	General Psychology	3
MAJO	R COUR	SES:	
COS	111	Cosmetology Concepts I	4
OR COS COS	111AB 111BB	Cosmetology Concepts I-AB	
COS	112	Salon I	8
COS	112AB 112BB	Salon I-AB	
COS	113	Cosmetology Concepts II	4
COS	113AB 113BB	Cosmetology Concepts II-AB Cosmetology Concepts II-BB	2 2
COS	114	Salon II	8
COS	114AB 114BB	Salon II-ABSalon II-BB	
COS OR	115	Cosmetology Concepts III	4
COS	115AB 115BB	Cosmetology Concepts III-AB	2 2
COS	116	Salon III	4
COS COS	116AB 116BB	Salon III-AB Salon III-BB	2
COS OR	117	Cosmetology Concepts IV	2
COS COS	117AB 117BB	Cosmetology Concepts IV-AB	
COS	118	Salon IV	7
COS	118AB 118BB	Salon IV-AB	
WBL	110	World of Work	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.
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Total Credit Hours Required48

DEVELOPMENTAL COURSE REQUIREMENTS*

Cosmetology – Diploma • D55140
Suggested Program Sequence Day

Suggested Program Sequence Day						
			so		Clin/WkExp	.Ħ
Fall – 1st year			Class	Lab	Clin	Credit
	etology Concepts I		4	0 24	0	4 8
	Of Work		1	0	0	1
Spring – 1st year		Total	5	24	0	13
	etology Concepts II		4	0 24	0	4 8
	ed Communication I	I	3	0	ő	3
Summer – 1st year	.	Total	7	24	0	15
COS 115 Cosmo COS 116 Salon	etology Concepts III III		4 0	0 12	$0 \\ 0$	4 4
		Total	4	12	0	8
	etology Concepts IV		2	0	0	2
COS 118 Salon PSY 150 Gener	IV al Psychology		0	21 0	0	7 3
		Total	5	21	0	12
		Grand Total	21	81	0	48
	etology – Diploma/			40		
Fall – 1st year	ggested Program S	-		0	•	_
COS 111AB COS 112AB	Cosmetology Cond Salon I-AB	cepts I-AB	0	0 12	0	2 4
WBL 110	World Of Work	Total	1 3	0 12	0	1 7
Spring – 1st year						
COS 111BB COS 112BB	Cosmetology Cond Salon I-BB	_	0	0 12	0	2 4
ENG 102	Applied Communi	cations II Total	3 5	0 12	0	3 9
Summer – 1st year						
PSY 150	General Psycholog	y Total	3	0	0	3
Fall – 2nd year	Commetale and Com					
COS 113AB COS 114AB	Cosmetology Cond Salon II-AB		2 0	0 12	$0 \\ 0$	2 4
Spring 2nd year		Total	2	12	0	6
Spring – 2nd year COS 113BB	Cosmetology Cond Salon II-BB	cepts II-BB	2	0 12	0	2
COS 114BB	Saion II-BB	Total	0 2	12	0	6
Fall – 3rd year COS 115AB	Cosmetology Cond		2	0	0	
COS 115AB COS 116AB	Cosmetology Cond Salon III-AB	æpis III-BB	$\stackrel{\scriptstyle 2}{0}$	6	0	2
Spring – 3rd year		Total	2	6	0	4
COS 115BB COS 116BB	Cosmetology Cond Salon III-BB	cepts III-BB	2	0 6	0	2 2
COS TIODE	Salon III-DD	Total	2	6	0	4
Fall – 4th year COS 117AB	Cosmetology Cond		1	0	0	1
COS 117AB	Salon IV-AB	сріз 1 v-11Д	0	12	ŏ	4
Spring – 4th year		Total	1	12	0	5
COS 117BB COS 118BB	Cosmetology Cond Salon IV-BB	cepts IV-BB	1	0 9	0	1 3
200 110 D D	Swion 1 (-DD	Total	1	9	0	4
		Grand Total	21	81	0	48

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.

	,		
GENE	ERAL EI	DUCATION COURSES:	SHC
English	/Commun	nications:	
ENG	111	Writing and Inquiry	3
ENG	113	Literature-Based Research.	3
	OR	ENG 114 Prof Research & Reporting	3
Human	ities/Fine	1 0	
Elective	e		3
Natural	Sciences/	Mathematics:	
MAT	110	Math Measurement & Literacy	3
	OR	MAT 143 Quantitative Literacy	3
Social/I	Behaviora	l Sciences:	
PSY	150	General Psychology	3
MATO	D COUD	, e,	
CIS	R COUR 110		2
CIS	110	Introduction to Computers (Effective Spr 2015) Intro to Criminal Justice	
CJC	111	Criminology	
CJC	113	Juvenile Justice	
CJC	121	Law Enforcement Operations	3
CJC	131	Criminal Law	3
CJC	132	Court Procedure & Evidence	3
CJC	141	Corrections	
CJC	151	Intro to Loss Prevention	
CJC	160	Terrorism: Underlying Issues	3
CJC	212	Ethics & Comm Relations	3
CJC CJC	215 221	Organization & Administration	3
CJC	225	Crisis Intervention	
CJC	231	Constitutional Law	
SOC	210	Introduction to Sociology	
		;	3
CJC		Investigative Photography2	
CJC		Criminalistics	
HIS		World Civilizations I	
HIS HIS	112 121	World Civilizations II	
HIS		Western Civilization II	
POL		American Government	
POL		State & Local Government	
PSY	231	Forensic Psychology	
PSY	241	Developmental Psych	
PSY		Abnormal Psychology3	
SOC		Social Problems	
WBl	L XXX	Work-Based Learning1-3	

Work-Based Learning Option: Qualified students may elect to take 1-3 credit hours of Work-Based Learning.

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

Total (Total Credit Hours Required67				
DEVE	LOPME	ENTAL COURSE REQUIREMENTS*			
CTS	080	Computing Fundamentals	3		
DRE	098	Integrated Reading Writing III	3		
DMA	DMA (010, DMA 020, DMA 030 (MAT 110)	3		
DMA	DMA (010, DMA 020, DMA 030, DMA 040, DMA 050 (MAT 143)	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.

Criminal Justice Technology • A55180 Suggested Program Sequence Day

			S		Clin/WkExp	it.
Fall – 1st y	ear		Class	Lab	Clin	Credi
CJC 111	Intro to Criminal Justice		3	0	0	3
CJC 131	Criminal Law			0	0	3
CJC 132 CJC 160	Court Procedures & Evide Terrorism: Underlying Issu		3	0	0	3
ENG 111	Writing and Inquiry	u 3	3	0	0	3
		Total	15	0	0	15
Spring – 1s	t year					
CJC 121 Criminology				0	0	3
CJC 121 CJC 221	Law Enforcement Operation Investigative Principles	ons	3	0	0	3
CIS 110	Introduction to Computers	i	2	2	0	3
		Total	11	4	0	13
Summer –	1st year					
ENG 113 Literature-Based Research				0	0	3
OR ENG 114 Prof Research & Reporting			3	0	0	3
MAT 110	Math Measurement & Liter IAT 143 Quantitative Literature		2 2	2 2	0	3
PSY 150	General Psychology	icy	3	0	0	3
		Total	8	2	0	9
Fall – 2nd y	year					
CJC 113			3	0	0	3
CJC 215	Organization & Administr	ation	3	0	0	3
CJC 231 SOC 210	Constitutional Law Introduction to Sociology		3	0	0	3
	anities/Fine Arts Elective		3	0	0	3
		Total	15	0	0	15
Spring – 2n	nd year					
CJC 141			3	0	0	3
CJC 151	Intro to Loss Prevention		3	0	0	3
CJC 212 CJC 225	Ethics & Comm Relations Crisis Intervention		3	0	0	3 3
	ram Elective		J	U	U	3
		Total	15	0	0	15
	Gra	nd Total	64	6	0	67

Criminal Justice Technology • A55180 Suggested Program Sequence Evening	Exp		CRIMINAL JUSTICE TECHNOLOGY Correctional – Probation & Parole Certificate Prog (C5518002)
Fall – 1st vear	Lab Clin/WkExp	Credit	MAJOR COURSES:SHCCJC 111 Intro to Criminal Justice3CJC 141 Corrections3
CJC 111 Intro to Criminal Justice 3 CJC 131 Criminal Law 3	$\begin{array}{cc} 0 & 0 \\ 0 & 0 \end{array}$	3 3	CJC 212 Ethics & Comm Relations 3
ENG 111 Writing and Inquiry 3 Total 9	$\begin{array}{cc} 0 & 0 \\ 0 & 0 \end{array}$	3 9	CJC 225 Crisis Intervention 3 Total Credit Hours Required 15
Spring – 1st year CJC 121 Law Enforcement Operations 3 CIS 110 Introduction to Computers 2	$\begin{array}{cc} 0 & 0 \\ 2 & 0 \end{array}$	3 3	Correctional – Probation & Parole Cert. Suggested Sequence (C5518002)
Summer – 1st year Total 5	2 0	6	Fall – 1st year CJC 111 Intro to Criminal Justice 3 0 0 3 CJC 215 Organization & Administration 3 0 0 3 Total 6 0 0 6
MAT 110 Math Measurement & Literacy 2 OR MAT 143 Quantitative Literacy 2 PSY 150 General Psychology 3		3 3 3	Total 6 0 0 6
Fall – 2nd year Total 5	2 0	6	CJC 212 Ethics & Comm Relations CJC 225 Crisis Intervention 3 0 0 3 3 0 0 3
CJC 113 Juvenile Justice 3 SOC 210 Introduction to Sociology 3	$\begin{array}{cc} 0 & 0 \\ 0 & 0 \end{array}$	3	Total 9 0 0 9 Grand Total 15 0 0 15
Spring – 2nd year CJC 141 Corrections Total 6	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	6 3	G.M.M. 10 M. 10 0 11
CJC 212 Ethics & Comm Relations Humanities/Fine Arts Elective 3	0 0	3 3	CRIMINAL JUSTICE TECHNOLOGY
Summer – 2nd year Total 9	0 0	9	Judicial – Court Administrator Certificate Prog (C5518004)
ENG 113 Literature-Based Research 3 OR ENG 114 Prof. Research & Reporting 3	$\begin{array}{cc} 0 & 0 \\ 0 & 0 \end{array}$	3 3	MAJOR COURSES: SHC CJC 111 Intro to Criminal Justice 3
Fall – 3rd year Total 3	0 0	3	CJC131Criminal Law
CJC 132 Court Procedures & Evidence 3 CJC 160 Terrorism: Underlying Issu 3 Program Elective 3	0 0	3 3 3	CJC 225 Crisis Intervention
Spring – 3rd year Total 9	0 0	9	Judicial – Court Administrator – Cert. Suggested Sequence (C5518004)
CJC 112 Criminology 3 CJC 221 Investigative Principles 3		3 4	Fall – 1st year CJC 111 Intro to Criminal Justice 3 0 0 3
Total 6 Fall – 4th year	2 0	7	CJC 131 Criminal Law 3 0 0 3 CJC 132 Court Procedure & Evidence 3 0 0 3
CJC 215 Organization & Administration 3 CJC 231 Constitutional Law 3	$\begin{matrix} 0 & 0 \\ 0 & 0 \end{matrix}$	3 3	Total 12 0 0 12
Spring – 4th year Total 6	0 0	6	Spring – 1st year CJC 225 Crisis Intervention 3 0 0 3 Total 3 0 0 3
CJC 151 Intro to Loss Prevention 3 CJC 225 Crisis Intervention 3	0 0	3	Grand Total 15 0 0 15
Total 6 Grand Total 64	$\begin{array}{cc} 0 & 0 \\ 6 & 0 \end{array}$	6 67	
CRIMINAL JUSTICE TECHNOLOGY Law Enforcement Certificate Prog (C55180			CRIMINAL JUSTICE TECHNOLOGY Retail – Industrial Security Certificate Prog (C5518003)
MAJOR COURSES: CJC 111 Intro to Criminal Justice CJC 121 Law Enforcement Operations CJC 132 Court Procedure & Evidence CJC 212 Ethics & Comm Relations.		3	MAJOR COURSES:SHCCJC 111 Intro to Criminal Justice3CJC 131 Criminal Law3CJC 151 Intro to Loss Prevention3CJC 215 Organization & Administration3
CJC 225 Crisis Intervention Total Credit Hours Required			CJC 221 Investigative Principles 4 Total Credit Hours Required 16
Criminal Justice Technology Law Enforcement Cert. (C5518001) Suggested S	Sequenc	e e	Retail – Industrial Security – Cert. Suggested Sequence (C551803)
Fall – 1st year CJC 111 Intro to Criminal Justice 3	0 0	3	Fall – 1st year CJC 111 Intro to Criminal Justice 3 0 0 3
CJC 132 Court Procedure & Evidence 3 Total 6	0 0		CJC 131 Criminal Law 3 0 0 3 CJC 215 Organization & Administration 3 0 0 3 Total 9 0 0 9
Spring – 1st year CJC 121 Law Enforcement Operations 3 CJC 212 Ethics & Comm Relations 3 CJC 225 Crisis Intervention 3	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	3 3 3	Spring – 1st year CJC 221 Investigative Principles 3 2 0 4 CJC 151 Intro to Loss Prevention 3 0 0 3
Total 9	0 0	9	Total 6 2 0 7
Grand Total 15	0 0	15	Grand Total 15 2 0 16

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 curriculum.

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.

			SHC
0	/Commun		_
ENG		Writing and Inquiry	
ENG		Literature-Based Research	
	OR	ENG 114 Prof Research & Reporting	3
Human	ities/Fine		
Elective			3
Natural	Sciences	Mathematics:	
MAT	110	Math Measurement & Literacy	3
	OR	MAT 143 Quantitative Literacy	
Social/l	Behaviora	l Sciences:	
PSY	150	General Psychology	3
MAJO	R COUR	SES:	
CIS	110	Introduction to Computers	3
CJC	111	Intro to Criminal Justice	3
CJC	112	Criminology	
CJC	113	Juvenile Justice	
CJC	121	Law Enforcement Operations	
CJC	131	Criminal Law	3
CJC	132	Court Procedure & Evidence	3
CJC	144	Crime Scene Processing	
CJC	146	Trace Evidence	
CJC	212	Ethics & Comm Relations	
CJC	221	Investigative Principles	
CJC	222	Criminalistics	3
CJC	231	Constitutional Law	3
CJC	245	Friction Ridge Analysis	
CJC	246	Adv. Friction Ridge Analy	3
CJC	250	Forensic Biology I	3
	OR	CJC 251 Forensic Chemistry I	4
PSY	231	Forensic Psychology	3
Crimin	al Instice	Elective	1_1
	114	Investigative Photography	.1-4
	XXX	Work-Based Learning 1-4	
		ours Required	(0.72
10tal (realt H	ours Requireu (00-/2
		NTAL COURSE REQUIREMENTS*	2
CTS	080	Computing Fundamentals	
DRE	098	Integrated Reading Writing III	
DMA		0, DMA 020, DMA 030 (MAT 110)	
DMA	DMA 01	0, DMA 020, DMA 030, DMA 040, DMA 050 (MAT 143)	5

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

Fall – 1st ye CJC 111 CJC 131 CJC 132 ENG 111	ar Intro to Criminal Justice Criminal Law Court Procedures & Evic Writing and Inquiry	dence	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 Cab	0 0 0 0 Clin/WkExp	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
		Total	12	0	0	12
Spring – 1st CJC 112 CJC 121 CJC 221 CIS 110	year Criminology Law Enforcement Opera Investigative Principles Introduction to Compute		3 3 3 2	0 0 2 2	0 0 0 0	3 3 4 3
		Total	11	4	0	13
Summer – 1: ENG 113 OR MAT 110 OR PSY 150 Human	st year Literature-Based Researd ENG 114 Prof. Research Math Measurement & Lit MAT 143 Quantitative L General Psychology hities/Fine Arts Elective	& Reporting teracy	3 3 2 2 3 3	0 0 2 2 0 0	0 0 0 0 0	3 3 3 3 3 3
		Total	11	2	0	12
Fall – 2nd ye CJC 113 CJC 146 CJC 231 CJC 245 Crimir	ear Juvenile Justice Trace Evidence Constitutional Law Friction Ridge Analysis al Justice Elective		3 2 3 2	0 3 0 3	0 0 0 0	3 3 3 1/4
		Total	10	6	0	13/16
Spring – 2nd CJC 222 CJC 144 CJC 212 CJC 246 CJC 250 OR C	Criminalistics Crime Scene Processing Ethics & Comm. Relatio Adv. Friction Ridge Ana Forensic Biology I JC 251 Forensic Chemistr Forensic Psychology	ly	3 2 3 2 2 3 3 3	0 3 0 3 2 2 0	0 0 0 0 0 0	3 3 3 3 4 3
		Total 1	5/16	8	0	18/19
	Grand T	Total 59	9/60	20	0	68/72

^{*}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 Latent Evidence Concentration • A5518A Suggested Program Sequence Evening

Fall laturage		Class	Lab	Clin/WkExp	Credit
Fall – 1st year CJC 111 Intro to Criminal Justice CJC 131 Criminal Law ENG 111 Writing and Inquiry	Total	3 3 3 9	0 0 0 0	0 0 0 0	3 3 9
Spring – 1st year CJC 121 Law Enforcement Operatio CIS 110 Introduction to Computers	ns Total	3 2 5	0 2 2	0 0 0	3 3 6
Summer – 1st year MAT 110 Math Measurement & Liter OR MAT 143 Quantitative Literacy PSY 150 General Psychology		2 2 3 5	2 2 0 2	0 0 0	3 3 3
Fall – 2nd year CJC 113 Juvenile Justice CJC 146 Trace Evidence Criminal Justice Elective	Total	3 2	0 3	0	3 3 1/4
Spring 2nd year	Total	5	3	0	7/10
Spring – 2nd year CJC 144 Crime Scene Processing CJC 212 Ethics & Comm Relations PSY 231 Forensic Psychology	Total	2 3 3 8	3 0 0 3	0 0 0 0	3 3 9
Summer – 2nd year ENG 113 Literature-Based Research OR ENG 114 Prof Research & Repo	C	3 3 3	0 0 0	0 0 0	3 3 3
Fall – 3rd year CJC 132 Court Procedures & Evider	Total ace Total	6 3 3	0 0	0 0	6 3 3
Spring – 3rd year CJC 221 Investigative Principles CJC 112 Criminology	Total	3 3 6	2 0 2	0 0 0	4 3 7
Fall – 4th year CJC 231 Constitutional Law CJC 245 Friction Ridge Analysis	Total	3 2 5	0 3 3	$\begin{matrix} 0 \\ 0 \\ 0 \end{matrix}$	3 3 6
Spring – 4th year CJC 222 Criminalistics CJC 246 Adv. Friction Ridge Analy CJC 250 Forensic Biology I OR CJC 251 Forensic Chemistry I	Total rand Total	3 2 2 3 7/8 59/60	0 3 2 2 5 20	0 0 0 0 0	3 3 4 9/10 68/72

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 Required	15

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

Fall – 1st year CJC 111 CJC 146 CJC 114	ar Intro to Criminal Justice Trace Evidence Investigative Photography		3 2 1	0 3 2	0 0 0	3 3 2
		Total	6	5	0	8
Spring – 1st CJC 221 CJC 144	Investigative Principles		3 2	2 3	0	4 3
		Total	5	5	0	7
Grand Total		11	10	0	15	

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:

English	/Comm	unications:
COM	110	Introduction to Communication
ENG	111	Writing and Inquiry
ENG	114	Prof Research & Reporting
2110	OR	ENG 112 Writing/Research in the Disc
	OR	ENG 113 Literature-Based Research
	ities/Fin	
Electiv	e	3
Natural	Science	es/Mathematics:
CHM	130	Gen, Org, & Biochemistry3
CHM	130A	Gen, Org, & Biochem Lab1
Social/	Behavio	ral Sciences:
PSY	150	General Psychology
SOC	210	Introduction to Sociology
MAIO	R COU	
MAJO BIO	163	
BIO	175	Basic Anat & Physiology
DEN	110	Orofacial Anatomy 3
DEN	111	Infection/Hazard Control 2
DEN	112	Dental Radiography 3
DEN	120	Dental Hyg Preclinic Lec
DEN	121	Dental Hygiene Precl Lab. 2
DEN	123	Nutrition/Dental Health
DEN	124	Periodontology
DEN	130	Dental Hygiene Theory I
DEN	131	Dental Hygiene Clinic I
DEN	140	Dental Hygiene Theory II1
DEN	141	Dental Hygiene Clinic II2
DEN	220	Dental Hygiene Theory III2
DEN	221	Dental Hygiene Clinic III4
DEN	222	General & Oral Pathology2
DEN	223	Dental Pharmacology2
DEN	224	Materials and Procedures
DEN	230	Dental Hygiene Theory IV1
DEN	231	Dental Hygiene Clinic IV4
DEN	232	Community Dental Health
DEN	233	Professional Development
Total (Credit 1	Hours Required76
DEVE	LOPMI	ENTAL COURSE REQUIREMENTS*
DRE	098	Integrated Reading Writing III
DMA	DMA (010, DMA 020, DMA 030, DMA 040, DMA 0505

*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				cExp	
Spring – 1s	t year	Class	Lab	Clin/WkExp	Credit
BIO 163	Basic Anatomy and Physiology	4	2	0	5
CHM 130	Gen, Org & Biochemistry	3	0	0	3
CHM 130A	Gen, Org & Biochem Lab	0	2	0	1
ENG 111	Writing and Inquiry	3	0	0	3
PSY 150	General Psychology	3	0	0	3
	Total	13	4	0	15
Fall – 1st ye	ear				
BIO 175	General Microbiology	2	2	0	3
COM 110	Introduction to Communication	3	0	0	3
ENG 114	Prof Research & Reporting (Preferred)	3	0	0	3
OR	ENG 112 Writing/Research in the Disc	3	0	0	3
OR	ENG 113 Literature-Based Research	3	0	0	3
SOC 210	Introduction to Sociology	3	0	0	3

Note: General Education Course Requirements—Applicants must have compeleted the following courses 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.

Total

11 2 0 12

Fall – 2nd year DEN 110 Orofacial Anatomy DEN 111 Infection/Hazard Control DEN 120 Dental Hygiene Preclinic Lect DEN 121 Dental Hygiene Precl Lab Humanities/Fine Arts Elective	ture 2 2 0 3	2 0 0 6 0	0 0 0 0	3 2 2 2 3
То	tal 9	8	0	12
Spring – 2nd year				
DEN 112 Dental Radiography	2	3	0	3
DEN 222 General & Oral Pathology	2	0	0	2
DEN 130 Dental Hygiene Theory I	2	0	0	2 2 3
DEN 131 Dental Hygiene Clinic I	0	0	9	3
DEN 123 Nutrition/Dental Health	2	0	0	2
То	otal 8	3	9	12
Summer – 2nd year				
DEN 124 Periodontology	2	0	0	2
DEN 140 Dental Hygiene Theory II	1	0	0	1
DEN 141 Dental Hygiene Clinic II	0	0	6	2
	tal 3	0	6	5
Fall – 3rd year				
DEN 220 Dental Hygiene Theory III	2	0	0	2
DEN 221 Dental Hygiene Clinic III	0	0	12	4
DEN 223 Dental Pharmacology	2	0	0	2
DEN 232 Community Dental Health	2	3	0	3
То	otal 6	3	12	11
Spring – 3rd year				
DEN 224 Materials and Procedures	1	3	0	2
DEN 230 Dental Hygiene Theory IV	1	0	0	1
DEN 231 Dental Hygiene Clinic IV	0	0	12	4
DEN 233 Professional Development	2	0	0	2
То	tal 4	3	12	9
Grand Tot	tal 54	23	39	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 – five 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. Coursework 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. **Program Graduation Requirements:** The Early Childhood Education Department is currently seeking National Accreditation through the National Association for the Education of Young Children. The standards for students are rigorous and require students to perform at a minimum competency level. Due to the minimum competency level expected for graduates, the Education Department requires a grade of C or higher on all required Education Courses for graduation with a certificate, diploma, or degree.

- 0			
		DUCATION COURSES: SHC	
Englis	sh/Commui	nications:	
COM	110	Introduction to Communication	
ENG	111	Writing and Inquiry	
ENG	113	Literature-Based Research	
	OR	ENG 112 Writing/Research in the Disc	
	OR	ENG 114 Prof Research & Reporting	
Lluma	nities/Fine		
Electi		Aits3	
		/Mathematics:	
Electi			
	l/Behaviora		
Electi		3	
MAJ	OR COUR		
EDU	119	Intro to Early Child Educ	
EDU	131	Child, Family, & Commun	
EDU	144	Child Development I	
EDU	145	Child Development II	
	OR	· · · · · · · · · · · · · · · · · · ·	
	PSY	244 Child Development I	
	PSY	245 Child Development II	
EDU	146	Child Guidance 3	
EDU	151	Creative Activities 3	
EDU	153	Health, Safety, & Nutrit	
EDU	221	Children With Exceptional 3	
EDU	234	Infants, Toddlers, & Twos. 3	
EDU	251	Exploration Activities 3	
EDU	259	Curriculum Planning 3	
EDU	271	Educational Technology 3	
EDU	280	Language & Literacy Exp. 3	
EDU	284	Early Child Capstone Prac. 4	
PSY	150	General Psychology 3	
SOC	210	Introduction to Sociology 3	
EDU	Elective	63	
EDU			
		re required to take one (1) course from the following: Foundations of Education4	
	EDU 216 EDU 235		
	EDU 261		
	EDU 261		
	EDU 202		
	EDU 2/3	Effective reach fram	

(Early Childhood Education cont.)

OTHE	R REQ	QUIRED COURSES:	
ACA	111	College Student Success	1
Total (Credit	Hours Required	71/74
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	3
DMA	DMA	010, DMA 020, DMA 030, (MAT 110)	3
DMA	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050, (MAT 143 or M	IAT 152) 5
DMA	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, (MA	AT 121)6
DMA	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050 DMA 0	065.
	(MAT	7 171)	7

^{*}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.

Early Childhood Education • A55220 Suggested Program Sequence Day

Fall – 1st ye	ar		Class	Lab	Clin/WkExp	Credit
ACA 111	College Student Success		1	0	0	1
EDU 119 *EDU 144	Intro to Early Child Educ		4 3	0	0	4 3
EDU 151	Child Development I Creative Activities		3	0	0	3
EDU 271	Educational Technology		2	2	0	3
ENG 111	Writing and Inquiry		3	0	0	3
2110 111	mining and inquiry		5	Ů	Ů	-
		Total	16	2	0	17
Spring – 1st						
*EDU 145			3	0	0	3
EDU 146	Child Guidance		3	0	0	3
EDU 153 SOC 210	Health, Safety, & Nutrit		3	0	0	3
	Intro to Sociology Elective		2/4	0	0	3/4
EDU	Elective		2/4	U	U	3/4
		Total	14/16	0	0	15/16
Summer – 1	st year					
	nities/Fine Arts Elective		3	0	0	3
	l Science/Mathematics Electiv	ve	2/3	2	0	3/4
Social/	Behavioral Science Elective		3	0	0	3
		Total	8/9	2	0	9/10
Fall – 2nd ye	ear					
ENG 113			3	0	0	3
OR	ENG 112 Writing/Research	in the Disc	3	0	0	3
OR	ENG 114 Prof Research & F	Reporting	3	0	0	3
EDU 131		_	3	0	0	3
EDU 221	Children With Exceptional		3	0	0	3
EDU 259	Curriculum Planning		3	0	0	3
PSY 150	General Psychology		3	0	0	3
		Total	15	0	0	15
Spring – 2nd	l vear					
COM 110	Introduction to Communicat	tion	3	0	0	3
EDU 234	Infants, Toddlers, & Twos		3	0	0	3
EDU 251	Exploration Activities		3	0	0	3
EDU 280	Language & Literacy Exp		3	0	0	3
EDU 284	Early Child Capstone Prac		1	9	0	4
		Total	13	9	0	16
		1.00 4.1	66160	12	0	71/74
	C	Frand Total	66/69	13	0	71/74

EDU Electives: EDU 216, EDU 261, EDU 262, EDU 235, EDU 275.

Natural Science and Math Electives: AST 151, AST 151A, BIO 111, BIO 143, BIO 163, BIO 168, CHM 130, CHM 130A Lab, CHM 131, CHM 131A Lab, GEL 111, GEL 120, MAT 110, MAT 121, MAT 143, MAT 152, MAT 171, 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
English/Cor ENG 111	mmunications:
	Writing and Inquiry
ENG 113	Literature-Based Research 3
OR	ENG 112 Writing/Research in the Disc
OR	ENG 114 Prof Research & Reporting
MAJOR C	0.00000
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
	PSY 245 Child Development II
EDU 146	Child Guidance 3
EDU 151	Creative Activities3
EDU 153	Health, Safety, & Nutrit
EDU 221	Children with Exceptional
EDU 259	Curriculum Planning
EDU 271	Educational Technology 3
EDU 280 EDU 284	Language & Literacy Exp
	Early Child Capstone Prac
OTHER R	EQUIRED COURSES:
ACA 111	College Student Success
Total Cred	lit Hours Required45
DEVELOP	MENTAL COURSE REQUIREMENTS*
DRE 098	Integrated Reading Writing III

^{*}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.

Early Childhood Education Diploma Suggested Sequence (D55220)

Fall – 1st y	/ear	Class	Lab	Clin/WkExp	Credit
ACA 111 EDU 119 *EDU 144 EDU 151 EDU 271	College Student Success Intro to Early Child Educ Child Development I Creative Activities Educational Technology	1 4 3 3 2	0 0 0 0 2	0 0 0 0	1 4 3 3 3
	Total	13	2	0	14
Spring – 1st *EDU 145 EDU 146 ENG 111 EDU 153 EDU 280	Child Development II Child Guidance Writing and Inquiry Health, Safety, & Nutriti Language & Literacy Exp	3 3 3 3 3	0 0 0 0	0 0 0 0	3 3 3 3
	Total	15	0	0	15
Fall – 2nd y EDU 131 EDU 221 EDU 259 EDU 284 ENG 113 OR OR		3 3 1 3 3 3 13	0 0 0 9 0 0 0 9	0 0 0 0 0 0 0 0	3 3 3 4 3 3 3 16 45

EARLY CHILDHOOD EDUCATION School-Age Certificate Program (C5522004)

	School-Age Certificate Program (C5522004)						
MAJO	R COUR	SES:				SHC	
EDU	131	Child, Family, & Commun					
EDU	144	Child Development I					
EDU	145	Child Development II				3	
	OR						
		244 Child Development I				3	
	PSY						
EDU	146	Child Guidance					
EDU	235	School-Age Dev & Program					
EDU	275	Effective Teach Train				2	
OTHE	R REQU	IRED COURSES:					
ACA	111	College Student Success				1	
Total (Credit H	ours Required			•••••	18	
		NTAL COURSE REQUIREMENTS*					
DRE		ntegrated Reading Writing III				3	
DICE	070 1	negrated reduing writing in					
whose reading	placemen g, English,	coursework (including all prerequisites) we t test scores indicate a need for greater pro- mathematics, and computers. Please refer to quisite course information.	oficiency	in t	he a	reas of	
	Sch	ool-Age Cert. Suggested Sequence	(C552	2004	4)		
Fall -	1st year						
ACA		College Student Success	1	0	0	1	
EDU	131	Child, Family, & Commun	3	0	0	3	
*EDU		Child Development I	3	0	0	3 3 3	
EDU	235	School-Age Dev & Program	3	0	0	3	
		Total	10	0	0	10	
	- 1st year	ar		Ů	-		
*EDU		Child Development II	3	0	0	3	
EDU		Child Guidance	3	0	0	3 2	
EDU	275	Effective Teach Train	2	0	0	2	
		Total	8	0	0	8	
		Grand Total	18	0	0	18	
		Grand Total	10	U	U	10	

INFANT/TODDLER CARE Certificate Prog. (C55290)

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.

• .	-			
MAJOR COURSES:				SHC
EDU 119 Intro to Early Child Educ				4
EDU 131 Child, Family & Commun				3
EDU 153 Health, Safety & Nutrit				3
EDU 234 Infants, Toddlers, & Twos				3
EDU Child Development Elective				3
(Select a course from the following)				
EDU 144 Child Development I			3	
PSY 244 Child Development I			3	
OTHER REQUIRED COURSES:				
				1
ACA 111 College Student Success				1
Total Credit Hours Required:		•••••	•••••	17
DEVELOPMENTAL COURSE REQUIREMENTS*	ŀ			
DRE 098 Integrated Reading Writing III				3
I C //E III C C / D / CEEAAA				
Infant/Toddler Care Cert. Prog. (C55290) Suggeste	d Se	≀qu	ence
Fall – 1st year				
ACA 111 College Student Success	1	0	0	1
EDU 119 Intro to Early Childhood Education	4	0	0	4
EDU 131 Child, Family and Community	3	0	0	4 3
Child Development Elective	4 3 3	Õ	Õ	3
Total	11	0	0	11
Spring – 1st year	11	U	U	11
EDU 153 Health, Safety and Nutrition	3	0	0	3
EDU 234 Infants, Toddlers, & Twos	3	ő	0	3
LDO 254 minimo, roddiero, & rwos	3	J	J	5

Total Grand Total 0 6 0 17

ELECTRICAL SYSTEMS TECHNOLOGY Diploma Program (D35130)

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 Systems Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities. Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications for the National Electric Code, and other subjects as local needs require. Graduates should qualify for a variety of jobs in the electrical field as an on-the-job apprentice assisting in the layout, installation, and maintenance of electrical systems.

	_	•
		EDUCATION COURSES: SHC nunications:
_	111	
LITO	OR	ENG 102 Applied Communications II
Natura		ces/Mathematics:
MAT	121	Algebra/Trigonometry I
IVIAI	OR	MAT 110 Math Measurement & Literacy
		•
	OR	MAT 143 Quantitative Literacy
		URSES:
BPR	111	Print Reading
ELC	112	DC/AC Electricity5
ELC	113	Residential Wiring4
ELC	115	Industrial Wiring 4
ELC	117	Motors and Controls4
ELC	118	National Electrical Code
ELC	119	NEC Calculations
ELC	128	Intro to PLC
ELN	229	Industrial Electronics 4
Total	Credit	Hours Required36
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*
CTS	080	Computing Fundamentals
DRE	098	Integrated Reading Writing III
DMA	DMA	A 010, DMA 020, DMA 030, (MAT 110)
DMA		1010, DMA 020, DMA 030, DMA, 040, DMA 050, (MAT 143)5
DMA		A 010, DMA 020, DMA 030, DMA, 040, DMA 050,
		A 060, (MAT 121)6

Note: Students interested in pursuing an A.A.S. degree should consider taking ENG 111. Please see your Electrical Systems Technology advisor.

Electrical Systems Technology Diploma • D35130 Suggested Program Sequence Day

Fall –	1st yea	r				
BPR	111	Print Reading	1	2	0	2
ELC	112	DC/AC Electricity	3	6	0	5
ELC	113	Residential Wiring	2	6	0	4
ELC	118	National Electrical Code	1	2	0	2
ELC	119	NEC Calculations	1	2	0	2
		Total	8	18	0	15
Spring	g - 1sty	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
		Total	8	19	0	15
Sumn	ner – 1s	t yr				
ENG	111	Writing and Inquiry	3	0	0	3
	OR	ENG 102 Applied Communications II	3	0	0	3
MAT	121	Algebra/Trigonometry I	2	2	0	3
	OR	MAT 110 Math Measurement & Literacy	2	2	0	3
	OR	MAT 143 Quantitative Literacy	2	2	0	3
		Total	5	2	0	6
		Grand Total	21	39	0	36

Electrical Systems Technology Diploma • D35130 Suggested Prog Seq Evening

	Suggested Prog Seq Evening								
Fall – 1st y	еаг		Class	Lab	Clin/WkExp	Credit			
ELC 113 ELC 118 MAT 121 OR OR	Residential Wiring National Electrical Code Algebra/Trigonometry I MAT 110 Math Measureme		2 1 2 2 2	6 2 2 2 2	0 0 0 0	4 2 3 3 3			
		Total	5	10	0	9			
	Print Reading	unications II Total	1 3 1 3 3	2 6 2 0 0	0 0 0 0 0	2 5 2 3 3			
Fall – 2nd y ELC 117 ELN 229	Motors and Controls	Total	2 2 4	6 4 10	0 0	4 4 8			
Spring – 2r ELC 115 ELC 128		Total Grand Total	2 2 4 21	6 3 9 39	0 0 0	4 3 7 36			
		Grana rotar	21	5)	U	50			

Electrical Systems Technology Electrical Installation Concentration – Cert. Prog. (C35130)

MA IOD COURCES

MAJO	R COUL	RSES:	SHC
BPR	111	Print Reading	2
ELC	113	Residential Wiring	4
ELC	115	Industrial Wiring	4
ELC	118		
Total (Credit H	lours Required	12
		NTAL COURSE REQUIREMENTS*	
DRE	098	Integrated Reading Writing III	3

Electrical Systems Technology Electrical/Installation Concentration (C35130) Certificate Program Suggested Sequence

	1	2	0	2
Total	4	10	0	8
	2	6	0	4
Total	2	6	0	4
Grand Total	6	16	0	12
	Total	2 1 Total 4 2 Total 2	2 6 1 2 Total 4 10 2 6 Total 2 6	2 6 0 Total 2 6 0

^{*}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.

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 Sciencedegree 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.

Electroneurodiagnostic Technology • A45320 Suggested Program Sequence Day

Fall – 1st y	ear		Class	Lab	Clin/WkExp	Credit
EDT 110	Neuroscience/Pathol Cond	1	4	0	0	4
EDT 111	Laboratory Management		1 1	0	0	1
ELC 111	EDT Laboratory Basics Intro to Electricity		-	2	0	
ENG 111	Writing and Inquiry		2 3	0	0	3
MED 121	Medical Terminology I		3	0	0	3
PSY 150	General Psychology		3	0	0	3
	, 6,	Total	17	2	0	18
Spring – 1s	t year					
BIO 169	Anatomy and Physiology	II	3	3	0	4
CIS 110	Introduction to Computers		3 2 3 2	2	0	3
EDT 112	Instrumental/Record Meth	iods	3	0	0	3
EDT 113	Clinical Correlates			0	0	2
EDT 115	EDT Laboratory Practice		0	6	0	3 2 2 3
ENG 112	Writing/Research in the D NG 113 Literature-Based I		3	0	0	3
_	NG 114 Prof Research & I					
		Total	13	11	0	17
Fall – 2nd	vear					
EDT 114	Special Procedures		3	0	0	3
EDT 118	EDT Laboratory Prac. II		0	9	Ö	3
MAT 143	Quantitative Literacy			2	0	3 2 3
MED 118	Medical Law and Ethics		2 2 3	0	0	2
MED 122	Medical Terminology II			0	0	3
Huma	nities/Fine Arts Elective		3	0	0	3
		Total	13	11	0	17
Spring – 2r	nd year					
	EDT Clinical Experience		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.

^{*}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.

Electroneurodiagnostic Technology Degree Completion Program (A4532009)

This special program was developed to offer technologists who are ABRET registered in EEG and are currently working in the neurodiagnostic field a pathway to obtain an Associate in Applied Science degree. The length of the course will vary depending on the student's prior education and advanced placement success. Applicants will be eligible for admission after having met the following admissions standards:

- a. The applicant must apply for and meet CVCC's institutional requirements for admission as a student.
- b. The applicant must be currently employed as a neurodiagnostic technologist.
- c. The applicant must hold the credentials of R.EEG.T. through ABRET. Credentials must be current and in good standing.
- d. The applicant must provide two letters of reference: one from an immediate supervisor and one from the Medical Director of the neurodiagnostic facility with which the applicant is employed. These letters should attest to the individual's competence as a neurodiagnostic technologist.
- e. Once admitted to the program, students will receive Advanced Placement in the following courses based on their ABRET credentials and letters of reference:

		Credit Hours
111A	EDT Laboratory Basics	1
115	EDT Laboratory Practice	2
118	EDT Laboratory Practice II	3
116	EDT Clinical Experience	12
	115 118	 111A EDT Laboratory Basics 115 EDT Laboratory Practice 118 EDT Laboratory Practice II 116 EDT Clinical Experience

Students will also be offered Advanced Placement Exams in the following courses. If the written exam is passed with a grade of 80 or higher, advanced placement will be given:

EDT 110	Neuroscience/Pathol Cond	4
EDT 111	Laboratory/Management	1
EDT 112	Instrument/Record Methods	3
EDT 113	Clinical Correlates	2
EDT 114	Special Procedures	3

Students are required to complete the following courses, and maintain a 2.0 GPA, in order to successfully complete the program requirements.

BIO 168	Anatomy and Physiology I	4
BIO 169	Anatomy and Physiology II	4
CIS 110	Introduction to Computers	3
ELC 111	Intro to Electricity	3
ENG 111	Writing and Inquiry	3
ENG 112	Writing/Research in Disc	3
OR ENC	3 113 Literatured-Based Research	3
OR ENC	3 114 Prof Research & Reporting	3
MAT 143	Quantitative Literacy	3
MED 118	Medical Law and Ethics	2
MED 121	Medical Terminology I	3
MED 122	Medical Terminology II	3
PSY 150	General Psychology	3
•		34 SHC

The student may transfer or advance place up to sixty-five percent of the required course hours. The duration and timing of this program will vary between individuals depending on their prior college credits and success with advanced placement testing.

Grading, transcript evaluation, transfer policies, curriculum and graduation requirements will follow current CVCC policy. Program completion will vary according to progression of required classes for each student accepted.

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

English/Communications: ENG 111 Writing and Inquiry				DUCATION COURSES:	SHC
ENG	_		ımun		2
OR ENG 112 Writing/Research in the Disc 3 OR ENG 113 Literature-Based Research 3 Humanities/Fine Arts: 3 Elective 3 MAT 171 Precalculus Algebra 4 OR MAT 121 Algebra/Trigonometry I 3 Social/Behavioral Sciences: Elective 3 Elective 3 MAJOR COURSES: 3 CSC 134 C++ Programming 3 DFT 117 Technical Drafting 2 DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 29 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 234 Communication Systems 4 ELN 234					
OR ENG 113 Literature-Based Research. 3 Humanities/Fine Arts: Elective 3 MAT 171 Precalculus Algebra 4 OR MAT 121 Algebra/Trigonometry I. 3 Social/Behavioral Sciences: Elective 3 MAJOR COURSES: CSC 134 C++ Programming 3 DFT 117 Technical Drafting 2 DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics I 4 ELN	ENG				
Humanities/Fine Arts: Elective					
Natural Sciences/Mathematics: MAT					3
Natural Sciences/Mathematics: MAT 171 Precalculus Algebra 4 OR MAT 121 Algebra/Trigonometry I. 3 Social/Behavioral Sciences: Elective 3 MAJOR COURSES: CSC 134 C++ Programming 3 DFT 117 Technical Drafting 2 DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4			Fine A		
MAT 171 Precalculus Algebra 4 OR MAT 121 Algebra/Trigonometry I. 3 Social/Behavioral Sciences: Elective 3 MAJOR COURSES: CSC 134 C++ Programming 3 DFT 117 Technical Drafting 2 DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines II 4 ELN 235 Data Communicatio	Elect	ive			3
OR MAT 121 Algebra/Trigonometry I. 3 Social/Behavioral Sciences: Elective 3 MAJOR COURSES: CSC 134 C++ Programming 3 DFT 117 Technical Drafting 2 DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines II 4 ELN 235 Data Communication	Natur	al Scie	nces/	Mathematics:	
Social/Behavioral Sciences:	MAT	171		Precalculus Algebra	4
Elective 3 MAJOR COURSES: CSC 134 C++ Programming 3 DFT 117 Technical Drafting 2 DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 234 Communication Systems 4 ELN 236 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR		OR		MAT 121 Algebra/Trigonometry I	3
MAJOR COURSES: CSC 134 C++ Programming 3 DFT 117 Technical Drafting 2 DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4	Socia	l/Beha	vioral	Sciences:	
CSC 134 C++ Programming 3 DFT 117 Technical Drafting 2 DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 7	Elect	ive			3
DFT 117 Technical Drafting 2 DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC <td>MAJ</td> <td>OR CO</td> <td>OURS</td> <td>SES:</td> <td></td>	MAJ	OR CO	OURS	SES:	
DFT 117 Technical Drafting 2 DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: 1					3
DFT 151 CAD I 3 EGR 110 Intro to Engineering Tech 2 ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 </td <td>DFT</td> <td>117</td> <td></td> <td>6 6</td> <td></td>	DFT	117		6 6	
ELC 138 DC Circuit Analysis 4 ELC 139 AC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4	DFT	151		CAD I	3
ELC 139 AC Circuit Analysis 4 ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4	EGR	110		Intro to Engineering Tech	2
ELC 229 Applications Project 2 ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4	ELC	138		DC Circuit Analysis	4
ELN 131 Analog Electronics I 4 ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4	ELC	139		AC Circuit Analysis	4
ELN 132 Analog Electronics II 4 ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 4 ELN 235 Data Communication Sys 4	ELC	229		Applications Project	2
ELN 133 Digital Electronics 4 ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4	ELN	131		Analog Electronics I	4
ELN 234 Communication Systems 4 ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4	ELN	132		Analog Electronics II	4
ELN 260 Prog Logic Controllers 4 MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4				E	
MAT 172 Precalculus Trigonometry 4 OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4				•	
OR MAT 122 Algebra/Trigonometry II 3 PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4					
PHY 151 College Physics I 4 OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 ELC 136 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4	MAT			· ·	
OR PHY 131 Physics-Mechanics 4 EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 ELC 136 Electrical Machines ELC 136 Electrical Machines II ELN 235 Data Communication Sys				e e ;	
EET Electives 7 Students are required to take a minimum of 7 SHC from the following: ELC 135 ELC 136 Electrical Machines	PHY				
Students are required to take a minimum of 7 SHC from the following: ELC 135 Electrical Machines	DD#			· · · · · · · · · · · · · · · · · · ·	
ELC 135 Electrical Machines 3 ELC 136 Electrical Machines II 4 ELN 235 Data Communication Sys 4	EET.				7
ELC 136 Electrical Machines II					
ELN 235 Data Communication Sys4					
rni 155 Physics-Sound & Light4					
		rni	133	r nysics-sound & Light4	

Work-Based Learning Option: Qualified students may elect to take 2 credit hours of Work-Based Learning in place of ELC 229.

Physics Notes: Students planning to transfer to a 4-year college should consider taking PHY 151 or PHY 131, and PHY 133. Please see your Electronics Engineering Technology advisor.

Total (Total Credit Hours Required				
DEVE	ELOPMENTAL COURSE REQUIREMENTS*				
DRE	098 Integrated Reading Writing III	3			
DMA	DMA 010, DMA 020, DMA 030, DMA 040, DMA 050,				
	DMA 060 (MAT 121)	6			
DMA	DMA 010, DMA 020, DMA 030, DMA 040, DMA 050,				
	MAT 065 (MAT 171)	7			

*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

		30 I	•		ζxb	
					VKE	
			Class	Lab	in/	Credit
Fall -	1st y	ear	ひ	ĭ	Ū	
		C++ Programming	2	3	0	3
DFT		Technical Drafting	1	2	0	2
EGR		Intro to Engineering Tech	1	2	0	2
		DC Circuit Analysis	3	3	0	4
MAT	171	Precalculus Algebra	3	2	0	4
()R	MAT 121 Algebra/Trigonometry I	2	2	0	3
		Total	9/10	12	0	14/15
Spring						
DFT	151	CAD I	2	3	0	3
		AC Circuit Analysis	3	3	0	4
		Analog Electronics I	3	3	0	4
		Writing and Inquiry	3	0	0	3
MAT	172	Precalculus Trigonometry	3	2	0	4
(OR	MAT 122 Algebra/Trigonometry II	2	2	0	3
		Total	13/14	11	0	17/18
		1st year				
ENG	114	Prof Research & Reporting (Preferred)	3	0	0	3
()R	ENG 112 Writing/Research in the Disc	3	0	0	3
()R	ENG 113 Literature-Based Research	3	0	0	3
F	Huma	nities/Fine Arts Elective	3	0	0	3
		Total	6	0	0	6
Fall –						
ELN		Analog Electronics II	3	3	0	4
ELN		Digital Electronics	3	3	0	4
PHY	151	College Physics I	3	2	0	4
)R	PHY 131 Physics-Mechanics	3	2	0	4
E	Electro	onics Engineering Technology Elective	2	2	0	3
		Total	11	10	0	15
Spring		nd year				
ELC		Applications Project	1	3	0	2
ELN		Communication Systems	3	3	0	4
ELN		Prog Logic Controllers	3	3	0	4
		Behavioral Science Elective	3	0	0	3
F	Electro	onics Engineering Technology Elective	3	3	0	4
		Total	13	12	0	17
		Grand Total	52/54	45	0	69/71

Work-Based Learning Option: Qualified Students may elect to take up to 2 credit hours of Work-Based Learning in place of ELC 229.

Physics Note: Students planning to transfer to a 4-year college should consider taking PHY 151 or PHY 131, and PHY 133. Please see your Electronics Engineering Technology advisor.

Electronic Engineering Technology Electives: The student is required to take a minimum of 7 credits from this list.

ELC 135	Electrical Machines	2	2	0	3
ELC 136	Electrical Machines II	3	3	0	4
ELN 235	Data Communications Sys	3	3	0	4
PHY 133	Physics - Sound & Light	3	2	0	4

Electronics Engineering Technology Evening • A40200 Courses Are Offered On Demand (See Your Electronics Engineering Technology Advisor)

	(See 1	our Electronics Engineering Teenhology Navisory
CSC	134	C++ Programming
DFT	117	Technical Drafting2
DFT	151	CAD I
EGR	110	Intro to Engineering Tech2
ELC	138	DC Circuit Analysis
ELC	139	AC Circuit Analysis
ELC	229	Applications Project2
ELN	131	Analog Electronics I
ELN	132	Analog Electronics II
ELN	133	Digital Electronics 4
ELN	234	Communication Systems 4
ELN	260	Prog Logic Controllers
ENG	111	Writing and Inquiry 3
ENG	114	Prof Research & Reporting
	OR	ENG 112 Writing/Research in the Disc
MAT	OR	ENG 113 Literature-Based Research
MAT	171	Precalculus Algebra 3
MAT	OR	MAT 121 Algebra/Trigonometry I
MAT	172	Precalculus Trigonometry
DIII	OR	MAT 122 Algebra/Trigonometry II
PHY	151 OR	College Physics I 4 PHY 131 Physics-Mechanics 4
	OK	PHY 131 Physics-Mechanics4
Humai	nities/Fine	e Arts:
Electiv	/e	3
Social	Behavior:	al Sciences:
Electiv		3
Licoti		
EET E	lectives	7
		re required to take a minimum of 7 SHC from the following:
	ELC 13:	
	ELC 13	6 Electrical Machines II
	ELN 23:	5 Data Communication Sys4
	PHY 13	
		earning Option: Qualified students may elect to take 2 credit Based Learning in place of ELC 229.
taking		tudents planning to transfer to a 4-year college should consider or PHY 131, and PHY 133. Please see your Electronics Engineering tor.
	a	(D)
Total	Credit H	ours Required 69/71
DEVE	I OPME	NTAL COURSE REQUIREMENTS*
		-
DRE		ntegrated Reading Writing III
DMA		10, DMA 020, DMA 030, DMA 040, DMA 050,
D1		60 (MAT 121)
DMA		10, DMA 020, DMA 030, DMA 040, DMA 050,
	MAT 06	55 (MAT 171)

^{*}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 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 provides individuals with the knowledge, skills and attributes to provide advanced emergency medical care as a paramedic for critical and emergent patients who access the emergency medical system and prepares graduates to enter the workforce. Students will gain complex knowledge, competency, and experience while employing evidence based practice under medical oversight, and serve as a link from the scene into the healthcare system. Graduates of this program may be eligible to take state and/or national certification examinations. Employment opportunities include providers of emergency medical services, fire departments, rescue agencies, hospital specialty areas, industry, educational and government agencies.

GENI	ERAL	EDUCATION COURSES:	SHC
English	ı/Comı	munications:	
ENG	111	Writing and Inquiry	3
ENG	114	Prof Research & Reporting.	
LIVO	OR	ENG 112 Writing/Research in the Disc	2
	OR	ENG 112 Withing/Research in the Disc.	
	OK	ENG 113 Literature-Based Research	3
Humar	ities/F	ine Arts:	
Electiv	e		3
Natura	l Scien	ices/Mathematics:	
BIO	168	Anatomy and Physiology I	4
Social/	Behavi	ioral Sciences:	
PSY	150	General Psychology	3
MAJO	R CO	URSES:	
BIO	169	Anatomy and Physiology II	4
CIS	110	Introduction to Computers	
EMS	110	EMT	
EMS	122	EMS Clinical Practicum I	1
EMS	130	Pharmacology	
EMS	131	Advanced Airway Management	
EMS	140	Rescue Scene Management	
EMS	160	Cardiology I	
EMS	220	Cardiology II	
EMS	221	EMS Clinical Practicum II	
EMS	231	EMS Clinical Pract III	
EMS	235	EMS Management	
EMS	240	Patients W/Special Challenges	
EMS	241	EMS Clinical Practicum IV	
EMS EMS	250 260	Medical Emergencies	
EMS	270	Trauma Emergencies	
EMS	285	EMS Capstone	
MED	121	Medical Terminology I	2
MED	122	Medical Terminology II	3
		Hours Required	
101111	cream	110413 100441104	
DEVE	LOPM	MENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	3
DMA	DMA	A 010, DMA 020, DMA 030, DMA 040	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.

Emergency Medical Science Suggested Program Sequence Day

Fall –	- 1st y	ear		Class	Lab	Clin/WkExp	Credit
BIO	168	Anatomy and Physiology I		3	3	0	4
EMS	110	EMT		6	6	0	8
MED	121	Medical Terminology I		3	0	0	3
MED	122	Medical Terminology II		3	0	0	3
			Total	15	9	0	18
Spring	g – 1st	year					
BIO	169	Anatomy and Physiology II		3	3	0	4
CIS	110	Introduction to Computers		2	2	0	3
EMS	122	EMS Clinical Practicum I		0	0	3	1
	130	Pharmacology		3	3	0	4
EMS		Advanced Airway Manageme	ent	1	2	0	2
EMS		Cardiology I		1	3	0	2
EMS	260	Trauma Emergencies		1	3	0	2
			Total	11	16	3	18
_							
		st year					
ENG	111	Writing and Inquiry		3	0	0	3
EMS		Rescue Scene Management		1	3	0	2
EMS		Cardiology II		2	3	0	3
EMS		EMS Clinical Practicum II		0	0	6	2
EMS	240	Patients W/Special Challenge		1	2	0	2
			Total	7	8	6	12
F. 11							
	2nd ye			0	0	0	2
EMS		EMS Clinical Pract III		0	0	9	3
EMS		EMS Management		_	0	0	2
EMS		Medical Emergencies		3	3	0	4
EMS	270	Life Span Emergencies	T 4 1	2 7	3 6	0 9	3 12
			Total	/	6	9	12
Ci	2	1					
Spring	g – 2nd		Drafarrad)	2	٥	0	2
ENG	114	Prof Research & Reporting (I		3	0	0	3
	OR	ENG 112 Writing/Research in			0	-	
EMC	OR	ENG 113 Literature-Based R	esearcn	3	0	0	3
EMS	241	EMS Clinical Practicum IV		0	0	12	-
EMS	285	EMS Capstone		1	3	0	2
PSY	150	General Psychology		3	0	0	3
	Huma	anities/Fine Arts Elective		3	U	0	3
			Total	10	3	12	15

Note: Students must complete BIO 168, Anatomy & Physiology I, and EMS 110, EMT, prior to admission into the program.

Grand Total 50 42 30 75

EMERGENCY MEDICAL SCIENCE CURRICULUM Certificate Paramedic Advancement Program (A4534009)

This special track was developed to facilitate a North Carolina or Nationally Registered 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:

- 1. Meet CVCC's institutional requirements for admissions as an EMS student.
- 2. Letter from EMS director confirming 1000 hours or more of direct patient care.
- Provider and/or instructor cards for ITLS or PHTLS, ACLS or ACLS-EP, PALS or PEPP.
- 4. Valid North Carolina or National Registry Paramedic Certification.
- Letter of reference from service's Medical Director attesting to the individual's competence in basic and advanced life support skills.
- 6. Once the criterion above has been met, the student will then be offered Advanced Placement exams in the following courses so as to facilitate his or her movement through the program. To successfully advance place a student must score a "B" or higher.

A.	EMS 110	EMT
B.	EMS 130	Pharmacology
C.	EMS 131	Advanced Airway Management
D.	EMS 140	Rescue Scene Management
E.	EMS 160	Cardiology I
F.	EMS 220	Cardiology II
G.	EMS 240	Patients W/Special Challenges
H.	EMS 250	Medical Emergencies
I.	EMS 260	Trauma Emergencies
J.	EMS 270	Life Span Emergencies
K.	EMS 285	Capstone
	EN (C. 100	EN (C 201 EN (C 201 LE) (C 241

L. EMS 122, EMS, 221, EMS 231, and EMS 241 (Clinical Practicum) Advanced Placement requirement will be satisfied with documentation of 1000 hours or more of direct patient care.

Students are required to complete the following courses, and maintiain a 2.0 GPA, in order to successfully complete the program requirements.

BIO	168	Anatomy and Physiology I	4
BIO	169	Anatomy and Physiology II	4
CIS	110	Introduction to Computers	3
ENG	111	Expository Writing	3
ENG	112	Argument-Based Research	3
	OR	ENG 113 Literature-Based Research	3
	OR	ENG 114 Prof Research & Reporting	3
EMS	235	EMS Management	2
MED	121	Medical Terminology I	3
MED	122	Medical Terminology II	3
PSY	150	General Psychology	3
		Humanities/Fine Arts Elective	3
			31 SHC

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 his or her success with advanced placement scores.

HEALTH SCIENCE: THERAPEUTIC AND DIAGNOSTIC SERVICES EMERGENCY MEDICAL SCIENCE Diploma Program (D45910)

This curriculum is designed to prepare students for careers in the Health Sciences. Students will complete general education courses that provide a foundation for success in nursing and allied health curricula. Students may select a career pathway that will prepare them for an entry level position in health care. Courses may also provide foundational knowledge needed in the pursuit of advanced health science degrees or programs.

Graduates should qualify for an entry-level job associated with the program major such as Emergency Medical Technician (EMT) or Advanced Emergency Medical Technician (AEMT), Medical Assistant, Nursing Assistant, Pharmacy Technician, Phlebotomist, or Massage Therapist dependent upon the selected program major. **Emergency Medical Science:** A program that prepares graduates to enter the workforce as Emergency Medical Technicians or Advanced Emergency Medical Technicians. The course of study provides the student an opportunity to acquire basic life support knowledge and skills by utilizing classroom instruction, practical laboratory sessions, and hospital/field internships. 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.

GENERAL EDUCATION COURSES:

English/Com	munication:
ENG 111	Writing and Inquiry3
ENG 112	Argument Based Research3
Humanities/I	
PHI 240	Introduction to Ethics
MAJOR CO	OURSES:
Technical Co	ore:
MED 121	Medical Terminology I3
MED 122	Medical Terminology II3
Program Ma	jor:
EMS 110	EMT8
EMS 120	Advanced EMT6
EMS 121	AEMT Clinical Practicum2
Other Major:	
BIO 168	Anatomy and Physiology I4
BIO 169	Anatomy and Physiology II4
MAT 143	Quantitative Literacy3
PSY 150	General Psychology3
Total Credit	Hours Required:45
Total Crear	Trouts required
DEVELOP	MENTAL COURSE REQUIREMENTS*
CTS 080	Computing Fundamentals3
DRE 098	Integrated Reading and Writing III3
DMA 010, D	MA 020, DMA 030, DMA 040, DMA 0505

*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, and mathematics. Please refer to the Course Description section for prerequisite course information.

Note: Pre-requisite general education work must be completed prior to taking EMS coursework.

Health Science: Therapeutic And Diagnostic Services Emergency Medical Science • D45910 Suggested Program Sequence

Fall – 1	st vear		Class	Lab	Clin/WkExp	Credit
ENG	111	Writing and Inquiry	3	0	0	3
BIO	168	Anatomy and Physiology I	3	3	0	4
PSY	150	General Psychology	3	0	0	3
MAT	143	Quantitative Literacy	2	2	0	3
MAI	143	Total	11	5	0	13
Spring	– 1st yea		11	5	U	13
ENG	– 1st yea 112	Argument Based Research	3	0	0	3
PHI	240	Introduction to Ethics	3	0	0	3
BIO	169		3	0	0	4
ыо	109	Anatomy and Physiology II	_			-
		Total	9	0	0	10
Fall – 2	2nd year					
EMS	110	EMT	6	6	0	8
MED	121	Medical Terminology I (1st 8wks)	3	0	0	3
MED	122	Medical Terminology II (2nd 8wks)	3	0	0	3
		Total	12	6	0	14
Spring	– 2nd yea	ar				
EMS	120	Advanced EMT	4	6	0	6
EMS	121	EMT Clinical Practicum	0	0	6	2
		Total	4	6	6	8
		Grand Total	36	17	6	45

Note: Pre-requisite general education work must be completed prior to taking EMS coursework.

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. Coursework 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 coursework 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.

GENE	ERAI	EDUC.	ATION COURSES:	SHC
English	/Com	municatio		
ENG	111		ing and Inquiry	
ENG	114	Prof	Research & Reporting	3
Human Elective		ine Arts:		3
Social/	Behav	ioral Scie	nces:	
Elective				3
Natural	Scier	nces/Math	ematics:	
MAT 1			n Measurement & Literacy	3
	OR	MAT	Γ 143 Quantitative Literacy	3
MAIO	R CO	URSES:		
ACC	120		of Financial Accounting	4
BUS	110		duction to Business	
BUS	139		epreneurship I	
BUS	240		ness Ethics	
BUS	245		epreneurship II	
BUS	253		ership and Mgt Skills	
CIS	110		duction to Computers	
ECO	251		of Microeconomics	
ETR	215	Law	for Entrepreneurs	3
ETR	220	Inno	vation and Creativity	3
ETR	230	Entre	epreneur Marketing	3
ETR	240	Fund	ling for Entrepreneurs	3
ETR	270	Entre	epreneurship Issues	3
Entre	nrene	urshin El	ectives:	Q
			Nork-Based Electives: Students are required to take a	
			C from the following courses. Qualified student may ele	
			dit hours of Work-Based learning.	••
AC		121	Prin of Managerial Accounting	1
BU	JS	125	Personal Finance 3	
BU	JS	153	Human Resource Management	3
BU	JS	217	Employment Law and Regs	3
CT	`S	130	Spreadsheet	
EC	O	252	Prin of Macroeconomics	3
IN'	T	110	International Business	
MI	ΚT	123	Fundamentals of Selling	3
MI	ΚT	220	Advertising and Sales Promotion	3
MI	KΤ	221	Consumer Behavior	3
MI		223	Customer Service	
RL		112	Broker Prelicensing	
WI		110	World of Work	
WI	BL	XXX	Work-Based Learning)
Total (Credi	t Hours 1	Required	64
		MENTAL	COURSE REQUIREMENTS*	
CTS	080	Com	puting Fundamentals	3
DRE	098	Integ	grated Reading Writing III	3
DMA	DMA	A 010, DN	1A 020, DMA 030, (MAT 110)	_
DMA	DMA	4 010, DN	1A 020, DMA 030, DMA 040, DMA 050, (MAT 143)	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.

Entrepreneurship • A25490 **Suggested Program Sequence Day**

				Clin/WkExp	
		S		₩k	Ħ
Fall – 1st y	ear	Class	Lab	Clin	Credit
BUS 110	Introduction to Business		0	0	
BUS 139	Entrepreneurship I	3	0	0	3
ENG 111	Writing and Inquiry	3	0	0	3
ETR 220	Innovation and Creativity	3	0	0	3
ETR 230	Entrepreneur Marketing	3	0	0	3
	Total	15	0	0	15
Spring – 1s	st year				
ACC 120	Prin 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 110	Math Measurement & Literacy	2	2	0	3
OR	MAT 143 Quantitative Literacy	2	2	0	3
	Total	13	6	0	16
Fall – 2nd					
	Business Ethics	3	0	0	3
ECO 251	Prin of Microeconomics	3	0	0	3
ENG 114	r	3	0	0	3
	al/Behavioral Science Elective		0	0	3
	epreneurship Elective	3	0	•	3
Entre	epreneurship Elective	-	•	0	-
Coming 2	Total	18	0	0	18
Spring – 2r BUS 253	=	3	0	0	3
ETR 240	Leadership and Mgt Skills Funding For Entrepreneurs	3	0	0	3
ETR 240 ETR 270	Entrepreneurship Issues	3	0	0	3
	nities/Fine Arts Elective	3	0	0	3
	preneurship Elective	3	0	0	3
Entrep	Total	15	0	0	15
	Grand Total	61	6	0	64
		-	-	-	-

Entrepreneurship - Certificate Program (C25490)

		-			_	`	,
MAJO	R COU	JRSES:					SHC
BUS	139	Entre	oreneurship I				3
BUS	245		preneurship II				
ETR	220	Innov	ation and Creativit	v			3
ETR	230		oreneur Marketing.				
Total (Tredit I		auired:				

Entrepreneurship Certificate Suggested Day Sequence (C25490)

Fall – 1st year					
Fall – 1st year BUS 139 Entrepreneurship I	3	0	0	3	
ETR 220 Innovation and Creativity			$0 \\ 0$		
ETR 230 Entrepreneur Marketing	3	0	0	3	
Total	9	0	0	9	
Spring – 1st year					
Spring – 1st year BUS 245 Entrepreneurship II	3	0	0	3	
Total	3	0	0	3	
Grand Total	12	0	0	12	

	En	trepreneurship - Diplon	ia Prog	ram (D25	490)
GEN	ERAL	EDUCATION COURSES:					SHC
Englis	h/Comr	nunications:					
ENG	111	Writing and Inquiry					3
Social	/Behavi	oral Sciences:					
Electiv	/e						3
MAJO	OR CO	URSES:					
ACC	120	Prin of Financial Acet					4
BUS	110	Introduction to Business					
BUS	139	Entrepreneurship I					
BUS	245	Entrepreneurship II					
BUS	253	Leadership and Mgt Skills					
ECO	251	Prin of Microeconomics					
ETR	215	Law for Entrepreneurs					
ETR	220	Innovation and Creativity					
ETR	230	Entrepreneur Marketing					
ETR	270	Entrepreneurship Issues					
Total	Credit 1	Hours Required:				•••••	37
DEVE	LOPM	IENTAL COURSE REQUIREM	IENTS*				
CTS	080	Computing Fundamentals					3
DRE	098	Integrated Reading Writing III				•••••	3
whose Englis	placem h, math	tal coursework (including all pre ent test scores indicate a need for g ematics, and computers. Please re te course information.	requisites) reater prof efer to the	will be iciency i Course I	requ n the a Descri	ired of areas iption	of studen of readin s section
	•	reneurship Diploma Sugges	sted Day	Seque	ence	(D2:	5490)
BUS	- 1st ye 110	Introduction to Business		3	0	Λ	2
				_	•	0	3
BUS	139	Entrepreneurship I		3	0	0	3
ENG	111	Writing and Inquiry		3	0	0	3
ETR	230	Entrepreneur Marketing		3	0	0	3
		,	Total	12	0	0	12
Sprin	g – 1s	t year					
ACC	120	Prin of Financial Account	ing	3	2	0	4
BUS	245	Entrepreneurship II	2	3	0	0	3
ETR	215	Law for Entrepreneurs		3	0	0	3
DIK	213	Eaw for Entrepreneurs		2	0	0	2

Total

Total

Total

Grand Total

12 2

0

3

3 0 0 3

3

9

3 0 3 0

36 2

ETR 270 Entrepreneurship Issues

Leadership and Mgt Skills

ECO 251 Principles of Microeconomics

Social/Behavioral Science Elective

ETR 220 Innovation and Creativity

Fall – 2nd year

Spring – 2nd year

BUS 253

3

13

3

3

9

3

3

37

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

The Fire Protection Technology curriculum is designed to provide students with knowledge and skills in the technical, managerial, and leadership areas necessary for advancement within the fire protection community and related firefighting industries, and to provide currently employed firefighters with knowledge and skills often required for promotional consideration. Coursework includes diverse fire protection subject areas, including fire prevention and safety, public education, building construction, fire ground strategies and tactics, and local government finance and laws as they apply to emergency services management. Emphasis includes understanding fire characteristics and the structural consequences of fire; risk assessment and management; and relevant research, communications, and leadership methodologies. Employment opportunities exist with fire departments, governmental agencies, industrial firms, insurance rating organizations, and educational organizations.

GENI	ERAL EI	DUCATION COURSES:	SHC		
English	n/Commur	nications:			
ENG	111	Writing and Inquiry	3		
ENG	114	Prof Research & Reporting	3		
	OR	Prof Research & Reporting ENG 112 Writing/Research in the Disciplines	3		
Humar	ities/Fine	Arts:			
Electiv	e		3		
		Mathematics:	_		
MAT	143 OR	Quantitative Literacy	3		
	UK	MAI 110 Mathematical Measurement & Literacy	3		
Social/	Behaviora	l Sciences:			
PSY	150	General Psychology	3		
	OR	SOC 210 Introduction to Sociology			
	OIC	Soc 210 introduction to sociology			
MATO	D COUD	OFG.			
CIS	R COUR	SES: Introduction to Computers	2		
EPT	140				
FIP	120	Emergency Management			
		Intro to Fire Protection			
FIP	124	Fire Prevention & Public Ed			
FIP	132	Building Construction			
FIP	136	Inspections & Codes			
FIP	146	Fire Protection Systems			
FIP	152	Fire Protection Law			
FIP	220	Fire Fighting Strategies			
FIP	228	Local Govt Finance			
FIP	229	Fire Dynamics and Combust			
FIP	240	Fire Service Supervision			
FIP	248	Fire Svc Personnel Adm			
FIP	276	Managing Fire Services	3		
FI	P Elective	s:	6/8		
			0/0		
		required to select 6/8 credit hours from the following:	2		
FI					
FI					
FI					
FI		Adv Fire Fighting Strat			
FI					
FI					
FI	P 230	Chem of Hazardous Mat I	5		
ОТИЕ	D DEOU	IDED HOUDS.			
	a r req u. Ca - 111	IRED HOURS: College Student Success	1		
A	CA III	Conege Student Success	1		
Total Credit Hours Required					
DEVE CTS	LOPMEN 080	VTAL COURSE REQUIREMENTS*	2		
DRE	080	Computing Fundamentals Integrated Reading Writing III	3		
DIVE	DM 4 01	Integrated Reading Writing III	3		

DMA DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 (DMA 143)5

Fire Protection Technology • A55240 Suggested Program Sequence Day

Fall –	1st yea	r		Class	Lab	Clin/WkExp	Credit
ACA CIS ENG FIP FIP	111 110	College Student Success Introduction to Computer Writing and Inquiry Intro to Fire Protection Fire Prevention & Public Building Construction		1 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0	1 3 3 3 3 3
			Total	16	0	0	16
Spring ENG EPT FIP FIP	g – 1st y 114 140 OR 136 152 FIP Ele	Prof Research & Reporting Emergency Management ENG 112 Writing/Reasea Inspection & Codes Fire Protection Law		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
Sumn MAT PSY	OR 150 OR	Quantitative Literacy MAT 110 Math Meas. & General Psychology SOC 210 Introduction to ities/Fine Arts Elective	Sociology	2 2 3 3 3	2 2 0 0 0	0 0 0 0 0	3 3 3 3 3
			Total	8	2	0	9
Fall – FIP FIP FIP FIP	2nd yea 146 220 229 240	Fire Protection Systems Fire Fighting Strategies Fire Dynamics and Comb Fire Service Supervision	oust Total	3 3 3 12	2 0 0 0 2	0 0 0 0	4 3 3 3 13
Spring FIP FIP FIP	g – 2nd 228 248 276 FIP Ele	Local Govt Finance Fire Svc Personnel Adm Managing Fire Services	Total	3 3 3	0 0 0	0 0 0	3 3 3/5 12/14
		Gran	d Total	64	4	0	65/67
		Gian	iu 10tal	04	4	U	03/0/

^{*}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 Management Technology Certificate Program (C5524004)

MAJO	OR COU	RSES:SHC				
FIP	120	Intro to Fire Protection				
FIP	152	Fire Protection Law				
FIP	220	Fire Fighting Strategies				
FIP	228	Local Govt Finance				
FIP	240	Fire Service Supervision				
FIP	248	Fire Svc Personnel Adm3				
Total Credit Hours Required:18						

Fire Protection Management Certificate Sequence (C5524004)

Fall	– 1st yea	ar		Class	Lab	Clin/WkEx	Credit
FIP	120	Intro to Fire Protection		3	0	0	3
FIP	220	Fire Fighting Strategies		3		ő	3
FIP		Fire Service Supervision		3	ñ	0	3
1 11	240	The Service Supervision	Total	9	0	0	9
Sprii	ng – 1st	year					
FÎΡ	152	Fire Protection Law		3	0	0	3
FIP	228	Local Gov Finance		3	0	$0 \\ 0$	3
FIP	248	Fire Svc Personnel Adm		3		0	
			Total	9	0	0	9
		Gran	d Total	18	0	0	18

Industrial Fire Protection Certificate Program (C5524005)

MAJ	OR COU	RSES:	SHC
FIP	120	Intro to Fire Protection	3
FIP	124	Fire Prevention & Public Ed	3
FIP	132	Building Construction	3
FIP	140	Industrial Fire Protection	3
FIP	164	OSHA Standards	3
FIP	220	Fire Fighting Strategies	3

Industrial Fire Protection Certificate Sequence (C5524005)

Fall -	– 1st yea	ar					
FIP	120	Introduction to Fire Prote	ection	3	0	0	3
FIP	124	Fire Prevention & Public	Ed	3	0	0	3
FIP	132	Building Construction		3	0	0	3
FIP	220	Fire Fighting Strategies		3	0	0	3
			Total	12	0	0	12
Sprii	ng – 1st	vear					
	140	Industrial Fire Protection		3	0	0	3
FIP	164	OSHA Standards		3	0	0	3
			Total	6	0	0	6
		Gran	nd Total	18	0	0	18

HEALTH AND FITNESS SCIENCE 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 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, YMCAs/YWCAs, wellness programs in business and industry, parks & recreation departments and other organizations implementing exercise & fitness programs.

GENI	ERAL	EDUCATION COURSES: SHC
Englis	h/Comr	nunications:
COM	110	Introduction to Communication
ENG	111	Writing and Inquiry3
ENG	112	Writing/Research in the Disc
	OR	ENG 113 Literature-Based Research 3
	OR	ENG 114 Prof Research & Reporting
Huma	nities/Fi	ine Arts:
Electiv	ve	3
Natura	al Scien	ces/Mathematics:
MAT	110	Math Measurement & Literacy
IVIZI	OR	MAT 143 Quantitative Literacy 3
	ÖR	MAT 143 Quantitative Literacy
Social	/Behavi	oral Sciences:
PSY	150	General Psychology3
MAJO	R COU	IRSES:
BIO	155	Nutrition
BIO	168	Anatomy and Physiology I4
BIO	169	Anatomy and Physiology II4
HEA	112	First Aid & CPR2
PED	110	Fit and Well for Life2
PSF	110	Exercise Science 4
PSF	111	Fitness & Exer Testing I
PSF	114	Phys Fit Theory & Instr4
PSF	116	Pvnt & Care Exer Injuries
PSF	118	Fitness Facility Mgmt4
PSF	120	Group Exer Instruction3
PSF	210	Personal Training
PSF	212	Exercise Programming3
PSF	218	Lifestyle Chng & Wellness4
PSY	275	Health Psychology3
WBL	111	Work-Based Learning I1
PED E	Electives	
		nts are required to select 2 credit hours from the following courses.
	PED	113 Aerobics I
	PED	117 Weight Training I
	PED	118 Weight Training II
	PED	120 Walking for Fitness1
	PED	122 Yoga I 1
Total	Credit 1	Hours Required71/72
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*
DRE	098	Integrated Reading Writing III
DMA	DMA	010. DMA 020. DMA 030 (MAT 110)
DMA	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050
	(MAT	143), (MAT 152)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.

Health and Fitness Science • A45630 **Suggested Program Sequence Day**

Fall –	1st ve:	ar		Class	Lab	Clin/WkExp	Credit
ENG HEA PED PSF PSY	111 112 110 110 150	Writing and Inquiry First Aid & CPR Fit And Well For Life Exercise Science General Psychology Elective		3 1 1 4 3 1	0 2 2 0 0 0	0 0 0 0 0	3 2 2 4 3 1
			Total	13	4	0	15
Spring ENG BIO BIO PSF PSF	7 - 1st 112 OR OR 168 155 111 116	year Writing/Research in the D ENG 113 Literature-Base ENG 114 Prof Research & Anatomy and Physiology Nutrition Fitness & Exer Testing I Pvnt & Care Exer Injuries	d Research t Reporting I	3 3 3 3 3 2	0 0 0 3 0 2 2	0 0 0 0 0 0	3 3 4 3 4 3
			Total	14	7	0	17
Summ MAT	OR OR	st year Math Measurement & Liter MAT 143 Quantitative Lit MAT 152 Statistical Meth anities/Fine Arts Elective	eracy	2 2 3 3	2 2 2 0	0 0 0 0	3 3 4 3
		,	Total	5/6	2	0	6/7
Fall – WBL COM BIO PSF PSF	111 110 169 114 120	Work-Based Learning I Introduction to Communic Anatomy and Physiology Phys Fit Theory & Instr Group Exer Instruction Elective		0 3 3 4 2 1	0 0 3 0 2 0	10 0 0 0 0 0	1 3 4 4 3 1
			Total	13	5	10	16
Spring PSF PSF PSF PSF PSY	3 – 2nd 118 210 212 218 275	I year Fitness Facility Mgmt Personal Training Exercise Programming Lifestyle Chng & Wellnes Health Psychology	s	4 2 2 3 3	0 2 2 2 0	0 0 0 0	4 3 3 4 3
			Total	14	6	0	17
		Grand Total	. 5	9/60	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 fulltime 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.

		DUCATION COURSES: SHC			
_		unications:			
ENG		Writing and Inquiry			
		e			
i i	Students a	are required to take one (1) course from the following: Writing/Research in the Disc3			
I	ENG 112	3 Literature-Based Research			
İ	ENG 114	4 Prof Research & Reporting			
Humar	ities/Fin				
Electiv		3			
	-	es/Mathematics:			
MAT	110	Math Measurement & Literacy			
		ral Sciences:			
PSY	150	General Psychology			
		3 63			
BIO	R COUR 168				
BIO	169	Anatomy and Physiology I			
BUS	137	Anatomy and Physiology II			
CIS	110	Introduction to Computers			
CIS	OR	CIS 111 Basic PC Literacy 2			
DBA	110	Database Concepts			
HIT	110	Fundamentals of HIM			
HIT	112	Health Law and Ethics			
HIT	114	Health Data Sys/Standards 3			
HIT	122	Prof Practice Exp I			
HIT	210	Healthcare Statistics 3			
HIT	211	ICD Coding			
HIT	214	CPT/Other Coding Systems			
HIT	215	Reimbursement Methodology			
HIT	216	Quality Management2			
HIT	220	Health Informatics & EHRs			
HIT	222	Prof Practice Exp III			
HIT	226	Principles of Disease			
HIT	280	Professional Issues			
MED	121	Medical Terminology I			
MED	122	Medical Terminology II3			
Total Credit Hours Required69-70					
DEVE	LOPME	NTAL COURSE REQUIREMENTS*			
CTS	080	Computing Fundamentals			
DRE	098	Integrated Reading Writing III			
DMA		10, 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

Health Information Technology • (A45360) Suggested Program Sequence Day

					/kExp	
Fall – 1st y	ear		Class	Lab	Clin/W	Credit
BIO 168 CIS 110	Anatomy and Physiology I Introduction to Computers		3 2	3 2	0	4 3
OR	CIS 111 Basic PC Literacy		1	2	0	2
ENG 111 MED 121	Writing and Inquiry Medical Terminology I		3	0	0	3
HIT 110	Fundamentals of HIM		3	0	0	3
PSY 150	General Psychology		3	0	0	3
		Total	16/17	5	0	18/19
Spring – 1s	st year			_		
BIO 169 DBA 110	Anatomy and Physiology I Database Concepts	1	3	3	$0 \\ 0$	4
HIT 112	Health Law and Ethics		2 3	0	0	3
HIT 114	Health Data Sys/Standards		2	3	0	3
MED 122	Medical Terminology II		3	0	0	3
		Total	13	9	0	16
Summer –	2					
ENG 112 OR		Research	ed) 3	0	0	3
	ENG 114 Prof Research &	Reporting	0	0	2	1
HIT 122 MAT 110		racy	2	0	3	3
		Total	5	2	3	7
Fall – 2nd	vear					
HIT 210			2	2	0	3
HIT 211	ICD Coding		2	6	0	4
HIT 216	Quality Management		1	3	0	2
HIT 220 HIT 226	Health Informatics & EHR Principles of Disease	.S	1 3	2	$0 \\ 0$	2
	r	Total	9	13	0	14
Spring – 2r	nd vear					
BUS 137	Principles of Management		3	0	0	3
HIT 222	Prof Practice Exp III		0	0	6	2
HIT 214	CPT/Other Coding System		1	3	0	2
HIT 215 HIT 280	Reimbursement Methodolo Professional Issues	ogy	1 2	2	0	2 2
	anities Elective		3	0	0	3
		Tota	10	5	9	14
	Grand	Total	53/54	34	9	69/70

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.

MAJO	R COU	URSES:	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					
DEVELOPMENTAL 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.

080

098

CTS DRE

Health Information Technology Cert. Prog. (C45360)

Suggested Sequence Fall - 2nd year 2 Introduction to Computers 2 0 3 CIS 110 OR CIS 111 Basic PC Literacy 1 2 0 0 3 0 3 110 Fundamentals of HIM MED 121 Medical Terminology I 3 0 0 3 7/8 2 0 8/9 Total Spring – 2nd year HIT 112 Health Law and Ethics 3 0 0 3 0 3 HIT 114 Health Data Sys/Standards 2 3 MED 122 Medical Terminology II 3 0 0 3 8 3 0 9 Total 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.

		CDUCATION COURSES: unications:	SHC
ENG	111	Writing and Inquiry	3
ENG	114	Prof Research & Reporting	3
	OR	ENG 112 Writing/Research in the Disc	
	OR	ENG 113 Literature-Based Research	
Humai	nities/Fir	ne Arts:	
Electiv	/e		3
		es/Mathematics:	
MAT	143 OR	Quantitative Literacy	3
	OR OR	MAT 152 Statistical Methods I	3 4
Social		oral Sciences:	
Electiv			3
MAJO	R COUI		
ACC	120	Prin of Financial Accounting	4
ACC	121	Prin of Managerial Accounting	4
CIS	110	Introduction to Computers	3
CTS	130	Spreadsheet	3
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 Mgmt Simulation	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	
OST	248	Diagnostic Coding	2
OST	281	Emer Issues in Med Ofc	3
WBL	XXX	Work-Based Learning	2
ОТНЕ	R REOU	JIRED COURSES:	
ACA	111	College Student Success	1
Total (Credit H	Iours Required	68/69
DEVE	LOPME	NTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	3
DMA	DMA	010, DMA 020, DMA 030, (MAT 110)	3
DMA	DMA	010, DMA 020, DMA 030, DMA 040, DMA 050	
	(MAT	143, MAT 152)	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

HealthCare Management Technology • (A25200) Suggested Program Sequence Day

Suggested Program Sequence Day							
			Clin/WkExp	_			
Fall – 1st year	Class	Lab	Clin/	Credit			
ACA 111 College Student Success	1	0	0	1			
ACC 120 Prin of Financial Accounting	3	2	0	4			
HMT 110 Intro to Healthcare Mgt	3	0	0	3			
MED 114 Prof Interac in Heal Care	1	0	0	1			
MED 121 Medical Terminology I (1st Eight Wks)	3	0	0	3			
MED 122 Medical Terminology II (2nd Eight Wks)	3	0	0	3			
Total	14	2	0	15			
Spring – 1st year	2	_					
ACC 121 Prin of Managerial Accounting	3	2	0	4			
CIS 110 Introduction to Computers HMT 210 Medical Insurance	2 3	2	0	3			
HMT 210 Medical Insurance OST 149 Medical Legal Issues	3	0	0	3			
OST 281 Emer Issues in Med Ofc	3	0	0	3			
	-	•	•	-			
Total Summer 1st year	14	4	0	16			
Summer – 1st year ENG 111 Writing and Inquiry	3	0	0	3			
Humanities/Fine Arts Elective	3	0	0	3			
Social/Behavioral Science Elective	3	0	0	3			
	_						
Fall – 2nd year	9	0	0	9			
CTS 130 Spreadsheet	2	2	0	3			
ENG 112 Writing/Research in the Disc (Preferred) $\frac{2}{3}$	0	0	3			
OR ENG 113 Literature-Based Research) 3	ŏ	ŏ	3 3 3 3			
OR ENG 114 Pro Research & Reporting	3	0	0	3			
HMT 211 Long-Term Care Admin	3 3 2 y 3	0	0	3			
MAT 143 Quantitative Literacy	2	2	0	3			
OR MAT 110 Math Measurement & Literac	y 3	0	0	3			
OR MAT 152 Statistical Methods I	3	2	0	4			
OST 247 Procedure Coding	1	2	0	2			
Spring – 2nd year	11	6	0	14/15			
HMT 212 Mgt. of Healthcare Org	3	0	0	3			
HMT 220 Healthcare Financial Mgmt	4	0	0	4			
HMT 225 Practice Mgmt Simulation	2	2	ő	3			
OST 248 Diagnostic Coding	1	2	Ŏ	2			
WBL XXX Worked-Based Learning	0	0	20	2			
Total	10	4	20	14			
Grand Total	1 58	16	20	68/69			

HEALTHCARE MANAGEMENT TECHNOLOGY Healthcare Management Certificate Program (C25200)

MAJO	R CO	URSES:	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	
MED	121	Medical Terminology I	3
MED	122	Medical Terminology II	3
		t Hours Required MENTAL COURSE REQUIREMENTS*	18
DRE	097	Integrated Reading Writing II	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.

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

Fall – 1st ye	ar				
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
Coming 1st	Total	9	0	0	9
Spring – 1st					
HMT 210	Medical Insurance	3	0	0	3
HMT 211	Long-Term Care Admin	3	0	0	3
HMT 212	Mgt of Healthcare Org	3	0	0	3
	Total	9	0	0	9

Grand Total

18 0 0 18

T 11 1 4

HEALTHCARE MANAGEMENT TECHNOLOGY Healthcare Receptionist Certificate Program (C2520005)

MAJO	R COL	URSES:	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	149	Medical Legal Issues	
Total (Credit	Hours Required	16
DEVE	LOPM	IENTAL COURSE REQUIREMENTS*	
DRE	097	Integrated Reading Writing II	3
*Devel	onmen	atal 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

Healthcare Management Technology Healthcare Receptionist (C2520005) Certificate Program Suggested Sequence

9

			Ä.	
Fall – 1st year	Class	Lab	Clin/WkE	Credit
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
Spring – 1st year Total	9	0	0	9
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	OR CO	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	
OST	247	Procedure Coding	2
OST	248	Diagnostic Coding	
Total (Credit	t Hours Required	17
DEVE	LOPN	MENTAL COURSE REQUIREMENTS*	
DRE	097	Integrated Reading Writing II	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.

HealthCare Management Technology Insurance (C2520004) Certificate Program Suggested Sequence

Fall – 1st year					
HMT 110	Intro to Healthcare Mgt	3	0	0	3
MED 121	Medical Terminology I (1st 8 Wks)	3	0	0	3
MED 122	Medical Terminology II (2nd 8 Wks)	3	0	0	3
g : 1 .	Total	9	0	0	9
Spring – 1st y					
MED 114	Prof Interac In Heal Care	1	0	0	1
HMT 210	Medical Insurance	3	0	0	3
OST 247	Procedure Coding	1	2	0	2
OST 248	Diagnostic Coding	1	2	0	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 Scott Crosby at extension 4755. CVCC has a 2 + 2 Articulation Agreement with NC 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. Coursework 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.

never to understand plants and then management and early.	
GENERAL EDUCATION COURSES: SHO	\mathcal{I}
English/Communications:	
ENG 111 Writing and Inquiry	2
ENG 114 Prof Research & Reporting 3	į
OR ENG 112 Writing/Research in the Disc	ź
OR ENG 112 Withing/Research in the Disc	,
OR ENG 113 Literature-Based Research	,
Humanities/Fine Arts:	
Elective 3	3
Natural Sciences/Mathematics:	
MAT 110 Math Measurement & Literacy	3
OR MAT 143 Quantitative Literacy	3
Social/Behavioral Sciences:	
Elective	,
	,
MAJOR COURSES:	
HOR 110 Intro to Landscaping 2 HOR 112 Landscape Design I 3	2
HOR 112 Landscape Design I	3
HOR 114 Landscape Construction	3
HOR 116 Landscape Management I	3
HOR 118 Equipment Op & Maint	2
HOR 134 Greenhouse Operations	3
HOR 160 Plant Materials I	3
HOR 162 Applied Plant Science	3
HOR 164 Hort Pest Management	3
HOR 166 Soils & Fertilizers 3	3
HOR 168 Plant Propagation	ž
HOR 170 Hort Computer Apps	
HOR 213 Landscape Design II 3	į
HOR 213 Landscape Design II	ź
HOR 265 Adv Plant Materials 2	,
HOR 273 Hor Mgmt & Marketing	1
TRF 130 Native Flora ID 2	ŀ
TRF 130 Native Flora ID	2
Horticulture/Turf or Work-Based Learning Elective	1
Please choose from the following:	
HOR 255 Interiorscapes2	
SPA 120 Spanish for the Workplace 3	
TRF 120 Spanish for the Workplace	
TRF 125 Turfgrass Computer App 2	
TRF 151 Intro Landscape Design	
TRF 152 Landscape Maintenance	
TRF 210 Turfgrass Eqmt Mgmt3	
TRF 220 Turfgrass Calculations	
TRF 230 Turfgrass Mgmt Apps 2 TRF 250 Golf /Sport Field Const 4	
TRF 250 Golf/Sport Field Const4	
TRF 260 Adv Turtgrass Mgmt4	
WBL XXX Work-Based Learning1-4	
Total Credit Hours Required69)

(Con't)

DEVELOPMENTAL COURSE REQUIF					
DRE 098 Integrated Reading Write DMA DMA 010, DMA 020, DMA 030,	•				
DMA DMA 010, DMA 020, DMA 030,	DMA 040, DMA 0)50,	(MA	T 14	43)5
*Developmental coursework (including students whose placement test scores ind the areas of reading, English, mathemati Course Descriptions section for prerequis	icate a need for gre cs, and computers.	ater Plea	prof se re	icie	ncy in
				Exp	
Horticulture Tech Suggested Progran				Clin/WkExp	ţ j
Fall – 1st year		Ű	Lab		Credit
TRF 110 Intro Turfgrass Cult & II HOR 118 Equipment Op & Maint)	3	2	0	4 2 3 3
HOR 162 Applied Plant Science		2	2	0	3
HOR 166 Soils & Fertilizers ENG 111 Writing and Inquiry		2	2	$0 \\ 0$	3
	Total	11	9	0	15
Spring – 1st year MAT 110 Math Measurement & Li	teracy	2	2	0	3
OR MAT 143 Quantitative L		2	2	0	3
HOR 168 Plant Propagation HOR 160 Plant Materials I		2 2 2	2	0	3
HOR 116 Landscape Management	I	2	2	0	3 3 2 3
HOR 110 Intro To Landscaping ENG 114 Prof Research and Report	ing (Preferred)	3	0	$0 \\ 0$	3
OR ENG 112 Writing/Resear OR ENG 113 Literature-Base		3	0	0	3
OR ENGTIS Enclude Bus	Total	12	10	0	17
Summer – 1st year					
HOR 112 Landscape Design I HOR 114 Landscape Construction		2	3	$0 \\ 0$	3
TRF 130 Native Flora ID		1	3	0	2
Fall – 2nd year	Total	5	8	0	8
HOR 170 Hort Computer Apps		1	3	0	2
HOR 213 Landscape Design II HOR 215 Landscape Irrigation		2 2 2	2	$0 \\ 0$	3
HOR 134 Greenhouse Operations HOR 273 Hort. Mgmt. & Marketin	ıa	2	2	0	3 3 3 2
Hort/Turf/Work-Based Learning		3	U	U	2
Coming 2011	Total	10	9	0	16
Spring – 2nd year HOR 164 Hort Pest Management		2	2	0	3
HOR 265 Advanced Plant Material Humanities/Fine Arts Elective	ls	1 3	2	0	2 3
Hort/Turf/Work-Based Learning		0			2
Social/Behavioral Science Elect		3	0	0	3
	Total	9	4	0	13
	Grand Total	47	40	0	69
HORTICULTURE TECHNO	N OCV Cont. I	Duo	~ (1	C14	240)
MAJOR COURSES:HOR 110 Intro to Landscaping					2
HOR 118 Equipment Op & Maint HOR 134 Greenhouse Operations					3
HOR 164 Hort Pest Management HOR 168 Plant Propagation					3
HOR 215 Landscape Irrigation					3
HOR 255 Interiorscapes Total Credit Hours Required					
Horticulture Technology Ce					
Fall – 1st year	- `	1			
HOR 110 Intro to Landscaping HOR 118 Equipment Op & Maint		1	2 3 2 2	0	2 2 3 3
HOR 134 Greenhouse Operations HOR 215 Landscape Irrigation		2 2	2	$0 \\ 0$	3
	Total	6	0	Λ	10

Total

Total

Grand Total

HORTICULTURE TECHNOLOGY Landscape Design Diploma Program (D1524001)

		Diploma Progra	III (D132400	1)			
GENE	RALI	EDUCATION COURSES	S:				SHC
English	/Comn	nunications:					
ENG	111	Writing and Inquiry					3
Natural MAT	Science 110	es/Mathematics: Math Measurement & Li	tomoore				2
IVIAI	OR	MAT 143 Quantitative L	iteracyiteracy				3
	R COU						2
HOR HOR	110 112	Intro to Landscaping					
HOR	114	Landscape Design I Landscape Construction					
HOR	160	Plant Materials I					
HOR	162	Applied Plant Science					
HOR	164	Hort Pest Management					
HOR	166	Soils & Fertilizers					
HOR	170	Hort Computer Apps					2
HOR	213	Landscape Design II					3
HOR	215	Landscape Irrigation					
HOR	265	Advanced Plant Material					
TRF	130	Native Flora ID				•••••	2
Total (Credit I	Hours Required					38
		ENTAL COURSE REQUIR					
DRE	098	Integrated Reading Writing					3
DMA	DMA (010, DMA 020, DMA 030, (N	MAT 110)				3
DMA	DMA (010, DMA 020, DMA 030, DM	MA 040, DMA 05	0, (M	[AT 14	43)	5
*Devel	onment	al coursework (including a	ll prerequisites)	will	he re	anir	ed of
		e placement test scores indi					
the area	as of re	ading, English, mathematic	s, and computers	s. Ple	ase re	efer	to the
Course	Descri	ptions section for prerequisi	te course inform	ation	١.		
1	Hortio	ulturo Tochnology — I o	ndsaana Dasid	m (T	1152	400°	1)
]	Hortic	ulture Technology – La		gn (I	0152	400	1)
]	Hortic	ulture Technology – La Suggested S		gn (E	0152	400	1)
j	Hortic			gn (I	0152		1)
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	H ortic	Suggested S				Clin/WkExp 000	Credit
	g – 1st j	Suggested S year Math Measurement & Li	Sequence			O Clin/WkExp	Credit
Spring MAT	g – 1st ; 110 OR	Suggested S year Math Measurement & Li MAT 143 Quantitative L	Sequence	gn (I	on open 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OO Clin/WkExp	S Credit
Spring MAT HOR	g – 1st ; 110 OR 110	year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping	Sequence	Class 2	2 2 2 2 2 2	OOO Clin/WkExp	Credit 3
Spring MAT HOR HOR	3 – 1st 110 OR 110 160	year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I	Sequence iteracy iteracy	2 Class	2 2 Cab	0 0 0 0 Clin/WkExp	Credit 3
Spring MAT HOR HOR HOR	g – 1st ; 110 OR 110 160 164	year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management	Sequence iteracy iteracy	2 Class	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 0 0 Clin/WkExp	Credit 3
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Spring MAT HOR HOR HOR	g – 1st ; 110 OR 110 160 164	year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management	Sequence iteracy iteracy	2 Class	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 0 0 Clin/WkExp	Credit 3
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Spring MAT HOR HOR HOR HOR	3 – 1st ; 110 OR 110 160 164 265	year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi	iteracy iteracy	\$\frac{\sqrt{2}}{2} \tag{1}{2} \tag{2}{1} \tag{8}	10	0 0 0 0 0 Clin/WkExp	3 3 2 3 3 2 13
Spring MAT HOR HOR HOR HOR	3 – 1st ; 110 OR 110 160 164 265 er – 1s	year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi	iteracy iteracy als Total	See 2 2 2 1 2 2 1 8 2 1 8	10	0 0 0 0 Clin/WkExp	3 3 2 3 3 2 13
Spring MAT HOR HOR HOR HOR	g – 1st 110 OR 110 160 164 265 eer – 1s 112	year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi st year Landscape Design I Landscape Construction	iteracy iteracy als Total	\$\frac{\sqrt{\sqrt{\text{sgr}}}}{2} 2 \\ 2 \\ 1 \\ 8 \\ 2 \\ 2 \\ 2 \\ 1 \\ 8 \\ 2 \\ 2	qe 7 2 2 2 2 2 2 2 2 10	0 0 0 0 Clin/WkExp	3 3 2 3 3 2 13
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Spring MAT HOR HOR HOR HOR	g – 1st 110 OR 110 160 164 265 eer – 1s 112	year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi st year Landscape Design I Landscape Construction	iteracy iteracy als Total	\$\frac{\sqrt{\sqrt{\text{sgr}}}}{2} 2 \\ 2 \\ 1 \\ 8 \\ 2 \\ 2 \\ 2 \\ 1 \\ 8 \\ 2 \\ 2	qe 7 2 2 2 2 2 2 2 2 10	0 0 0 0 Clin/WkExp	3 3 2 3 3 2 13
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Spring MAT HOR HOR HOR HOR TRF	g - 1st ; 110 OR 110 160 164 265 eer - 1s 112 114 130	Suggested S year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi st year Landscape Design I Landscape Construction Native Flora ID	iteracy iteracy als Total	sseD 2 2 1 2 2 1 8 2 2 1 5 5	qe 7 2 2 2 2 2 2 2 2 3 3 8	0 0 0 0 0 Clin/WkExp	in Charles 1
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Spring MAT HOR HOR HOR HOR TRF Fall – ENG HOR HOR	g - 1st 110 OR 110 160 164 265 er - 1s 112 114 130	Suggested S year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi st year Landscape Design I Landscape Construction Native Flora ID arr Writing and Inquiry Applied Plant Science Soils & Fertilizers	iteracy iteracy als Total	\$\frac{\sqrt{2}}{2} \frac{2}{1} \tag{2} \frac{1}{2} \frac{2}{2} \frac{1}{1} \tag{2} \frac{2}{2} \frac{1}{2} \frac{2}{2} \frac{1}{2} \frac{2}{2} \frac{2}{2} \frac{1}{2} \frac{2}{2} \frac{2}{2} \frac{1}{2} \frac{2}{2} \frac}	- Per 2 2 2 2 2 2 2 2 2 2 2 3 3 8 8 0 2 2 2 2 2 2 2 2 2 2 2 3 3 8 8 0 2 2 2 2 2 2 2 2 2 2 2 3 3 8 8 0 2 2 2 2 2 2 2 2 2 2 3 3 8 8 0 2 2 2 2 2 2 2 2 2 2 2 3 3 8 8 0 2 2 2 2 2 2 2 2 2 2 2 3 3 8 8 0 2 2 2 2 2 2 2 2 2 2 2 3 3 8 8 0 2 2 2 2 2 2 2 2 2 2 3 3 8 8 0 2 2 2 2 2 2 2 2 2 2 2 3 3 8 8 0 2 2 2 2 2 2 2 2 2 2 2 3 3 8 8 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 0 0 Clin/WkExp	in Charles 1
Spring MAT HOR HOR HOR TRF Fall - ENG HOR HOR HOR	s – 1st ; 110 OR 110 160 164 265 ser – 1s 112 114 130 1st year 111 162 166 170	year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi st year Landscape Design I Landscape Construction Native Flora ID ur Writing and Inquiry Applied Plant Science Soils & Fertilizers Hort Computer Apps	iteracy iteracy als Total	SSEID 2 2 2 1 2 2 1 8 2 2 1 5 3 2 2 2 1	- Per 2 2 2 2 2 2 2 2 2 2 2 3 3 8 0 2 2 2 3 3	0 0 0 0 0 Clin/WkExp	in Charles 1
Spring MAT HOR HOR HOR HOR TRF Fall – ENG HOR HOR HOR HOR HOR HOR	s - 1st; 110 OR 110 160 164 265 er - 1s 112 114 130 1st yea 111 162 166 170 213	Suggested S year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi st year Landscape Design I Landscape Construction Native Flora ID ur Writing and Inquiry Applied Plant Science Soils & Fertilizers Hort Computer Apps Landscape Design II	iteracy iteracy als Total	SSED 2 2 1 2 2 1 8 2 2 1 5 5 3 2 2 1 2	qe7 2 2 2 2 2 2 2 10 3 2 3 8 0 2 2 3 3 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	in Charles 1
Spring MAT HOR HOR HOR TRF Fall - ENG HOR HOR HOR	s – 1st ; 110 OR 110 160 164 265 ser – 1s 112 114 130 1st year 111 162 166 170	year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi st year Landscape Design I Landscape Construction Native Flora ID ur Writing and Inquiry Applied Plant Science Soils & Fertilizers Hort Computer Apps	iteracy iteracy als Total	SSEID 2 2 2 1 2 2 1 8 2 2 1 5 3 2 2 2 1	- Per 2 2 2 2 2 2 2 2 2 2 2 3 3 8 0 2 2 2 3 3	0 0 0 0 0 Clin/WkExp	3 3 2 2 3 3 2 13
Spring MAT HOR HOR HOR HOR TRF Fall – ENG HOR HOR HOR HOR HOR HOR	s - 1st; 110 OR 110 160 164 265 er - 1s 112 114 130 1st yea 111 162 166 170 213	Suggested S year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi st year Landscape Design I Landscape Construction Native Flora ID ur Writing and Inquiry Applied Plant Science Soils & Fertilizers Hort Computer Apps Landscape Design II	iteracy iteracy als Total	SSED 2 2 1 2 2 1 8 2 2 1 5 5 3 2 2 1 2	qe7 2 2 2 2 2 2 2 10 3 2 3 8 0 2 2 3 3 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	in Charles 1
Spring MAT HOR HOR HOR HOR TRF Fall – ENG HOR HOR HOR HOR HOR HOR	s - 1st; 110 OR 110 160 164 265 er - 1s 112 114 130 1st yea 111 162 166 170 213	Suggested S year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi st year Landscape Design I Landscape Construction Native Flora ID ur Writing and Inquiry Applied Plant Science Soils & Fertilizers Hort Computer Apps Landscape Design II	iteracy iteracy als Total Total	SSEC 2 2 1 2 2 1 8 2 2 1 5 5 3 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2	9e7 2 2 2 2 2 2 2 2 2 2 2 3 8 0 0 2 2 3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 2 2 3 3 3 2 13 3 3 2 8 3 3 3 3 17
Spring MAT HOR HOR HOR HOR TRF Fall – ENG HOR HOR HOR HOR HOR HOR	s - 1st; 110 OR 110 160 164 265 er - 1s 112 114 130 1st yea 111 162 166 170 213	Suggested S year Math Measurement & Li MAT 143 Quantitative L Intro to Landscaping Plant Materials I Hort Pest Management Advanced Plant Materi st year Landscape Design I Landscape Construction Native Flora ID ur Writing and Inquiry Applied Plant Science Soils & Fertilizers Hort Computer Apps Landscape Design II	iteracy iteracy als Total	\$\frac{\sqrt{\sqrt{\text{SNED}}}{2}}{2} \frac{2}{1} \frac{2}{2} \frac{1}{1} \frac{2}{2} \frac{2}{1} \frac{2}{2} \frac{1}{2} \frac{2}{2} \f	2 2 2 2 2 2 2 10 3 2 3 8 0 2 2 3 2 2 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	in the control of the

6 9 0 10

5 6 0 8

11 15 0 18

Spring – 1st year HOR 164 Hort Pest Management HOR 168 Plant Propagation HOR 255 Interiorscapes

HORTICULTURE TECHNOLOGY Landscape Management Diploma Program (D1524002)

GENI	ERAL E	EDUCATION COURSES:	SHC
Englis	h/Comm	nunications:	
ENG	111	Writing and Inquiry	3
Natura	l Science	es/Mathematics:	
MAT	110	Math Measurement & Literacy	3
	OR	MAT 143 Quantitative Literacy	3
MAJO	R COUI	RSES:	
HOR	110	Intro to Landscaping	2
HOR	114	Landscape Construction	
HOR	116	Landscape Management I	
HOR	118	Equipment Op & Maint	2
HOR	160	Plant Materials I	3
HOR	162	Applied Plant Science	3
HOR	164	Hort Pest Management	
HOR	166	Soils & Fertilizers	3
HOR	215	Landscape Irrigation	
HOR	265	Advanced Plant Materials	2
TRF	130	Native Flora ID	2
Hortic	ulture/Tu	urf or Work-Based Learning Elective	2
,	HOR 25 SPA 12 TRF 11 TRF 12 TRF 12 TRF 15 TRF 15 TRF 15 TRF 20 TRF 20 TRF 22 TRF 23	20 Spanish for the Workplace 3 10 Intro Turfgrass Cult & ID 4 20 Turfgrass Irrigat & Design 4 25 Turfgrass Computer App 2 40 Turfgrass Mgmt Safety 3 50 Landscape Drafting 2 51 Intro Landscape Design 3 52 Landscape Maintenance 3 30 Turfgrass Eqmt Mgmt 3 20 Turfgrass Calculations 2 30 Turfgrass Mgmt Apps 2 50 Golf /Sport Field Const 4 50 Adv Turfgrass Mgmt 4	
		Iours Required	37
		NTAL COURSE REQUIREMENTS*	
DRE		Integrated Reading Writing III	
DMA	DMA (010, DMA 020, DMA 030, (MAT 110)	3
DMA	DMA 0	010, DMA 020, DMA 030, DMA 040, DMA 050, (MAT 14	3) .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.

Horticulture Technology – Landscape Management (D1524002)

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		Suggested S	sequence			χb	
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				SS		Clin/WkExp	ŧ;
Eo11 1	1 at ***	-		Class	Lab	Ħ	Credit
Fall – 1 ENG	181 yeai 111	Writing and Inquiry			0	0	2
HOR 1		Equipment Op & Maint		1	2	0	2
HOR 1		Applied Plant Science		2	2	0	2
HOR 1	166	Soils & Fertilizers		2	2	0	3
HOR 2		Landscape Irrigation		3 1 2 2 2 2 2 2	3 2 2 2 2	0	3 2 3 3 3 3
MAT 1		Math Measurement & Li	teracy	2	2	0	3
		MAT 143 Quantitative L		2	2	0	3
,	OK	WAT 143 Qualititative L	,	_		-	
			Total	12	11	0	17
Spring	- 1st v	ear					
HOR 1		Intro to Landscaping		1	2	0	2
HOR 1		Landscape Management	I	2	2	0	3
HOR 1		Plant Materials I		2 2 2 1	2 2 2 2 2	0 0 0	2 3 3 2 2
HOR 1	164	Hort Pest Management		2	2	0	3
HOR 2	265	Advanced Plant Material	S	1	2	0	2
7	Work-B	Based Learning or Hort/Tu	ırf Elective				2
			Total	8	10	0	15
C	1 4		Total	O	10	U	13
Summe				2	2	^	2
HOR 1		Landscape Construction		2	2	0	3 2
TRF 1	130	Native Flora ID		1	3	0	2
			Total	3	5	0	5
			Grand Total	23	26	0	37
				-		-	- '

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 coursework 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.

GENI	ERAL EDU	JCATION COURSES:	SH
	n/Communica		
NG		Vriting and Inquiry	
NG	114 Pı	rof Research & Reporting	
		NG 112 Writing/Research in the Disc	
	OR E	NG 113 Literatured-Based Research	
luman	ities/Fine Art	ts:	
lectiv	e		
atura	Sciences/Ma		
1AT	121 A	lgebra/Trigonometry I	
	OR M	AT 110 Math Measurement & Literacy	
	OR M	AT 143 Quantitative Literacy	
ocial/	Behavioral S	ciences:	
lectiv		ordinees.	
	R COURSE		
PR		rint Reading	
IS		ntroduction to Computers	
~		IS 111 Basic PC Literacy	
LC		OC/AC Electricity	
LC		esidential Wiring	
LC		ndustrial Wiring	
LC		Motors and Controls	
LC		lational Electrical Code	
LC		IEC Calculations	
YD		Ivdraulics/Pneumatics I	
SC SC		ndustrial Safety	
IAC		Achining Applications I	
IAC		fachining Applications II	
INT		ntro to Maint Procedures	
/LD		asic Welding Processes	
		ves	
	AHR 110 AHR 112 AHR 113 ELC 128 ELN 260 ELN 229	Intro to Refrigeration Heating Technology Comfort Cooling Intro to PLC Prog Logic Controllers Industrial Electronics	4 4 3 4
	MAC 122 MAC 124 MAC 222 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115BC WLD 115BC	CNC Turning CNC Milling Advanced CNC Turning Advanced CNC Milling Work-Based Learning Cutting Processes SMAW (Stick) Plate C SMAW (Stick) Plate-AC SMAW (Stick) Plate-BC	2 2 2 1-3 2 5
	MAC 122 MAC 124 MAC 222 MAC 224 WBL XXX WUD 110 WLD 115 OR WLD 115AC WLD 115AC WLD 115BC	CNC Turning CNC Milling Advanced CNC Turning Advanced CNC Milling Work-Based Learning Cutting Processes SMAW (Stick) Plate C SMAW (Stick) Plate-AC C SMAW (Stick) Plate-BC	2 2 2 11-3 2 5
/ork-	MAC 122 MAC 124 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115BC WLD 115BC WLD 115CC	CNC Turning CNC Milling Advanced CNC Turning Advanced CNC Milling Work-Based Learning Cutting Processes SMAW (Stick) Plate C SMAW (Stick) Plate-AC C SMAW (Stick) Plate-BC. SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC	2 2 2 2 5 5
/ork-	MAC 122 MAC 124 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115BC WLD 115CC Based Learn of Work-Base	CNC Turning CNC Milling Advanced CNC Turning Advanced CNC Milling Work-Based Learning Cutting Processes SMAW (Stick) Plate C SMAW (Stick) Plate-AC SMAW (Stick) Plate-BC SMAW (Stick) Plate-BC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC Sing Option: Qualified students may elect to take up to ded Learning in place of 3 hours Program Elective.	2 2 2 2 1-3 2 5 2 2 1 to 3 credit
/ork-ours cotal (MAC 122 MAC 124 MAC 222 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115AC WLD 115CC Based Learn of Work-Base	CNC Turning CNC Milling Advanced CNC Turning Advanced CNC Milling Work-Based Learning Cutting Processes SMAW (Stick) Plate C. SMAW (Stick) Plate-AC C. SMAW (Stick) Plate-BC C. SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC Aing Option: Qualified students may elect to take up to declarating in place of 3 hours Program Elective. rs Required	2 2 2 2 1-3 2 5 2 2 1 to 3 credit
Vork-	MAC 122 MAC 124 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115AC WLD 115CC Based Learn of Work-Base Credit Hour LOPMENTA	CNC Turning CNC Milling Advanced CNC Turning Advanced CNC Milling Work-Based Learning Cutting Processes SMAW (Stick) Plate C SMAW (Stick) Plate-AC SMAW (Stick) Plate-BC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC ning Option: Qualified students may elect to take up to d Learning in place of 3 hours Program Elective. rs Required AL COURSE REQUIREMENTS*	2 2 2 11-3 2 5 2 1 to 3 credit
Vork-	MAC 122 MAC 124 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115AC WLD 115CC Based Learn of Work-Base Credit Hour LOPMENTA	CNC Turning CNC Milling Advanced CNC Turning Advanced CNC Milling Work-Based Learning Cutting Processes SMAW (Stick) Plate C. SMAW (Stick) Plate-AC C. SMAW (Stick) Plate-BC C. SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC Aing Option: Qualified students may elect to take up to declarating in place of 3 hours Program Elective. rs Required	2222 11-322
Vork- ours cotal (EVE	MAC 122 MAC 124 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115AC WLD 115CC Based Learn of Work-Base Credit Hour LOPMENTA	CNC Turning CNC Milling Advanced CNC Turning Advanced CNC Milling Work-Based Learning Cutting Processes SMAW (Stick) Plate C SMAW (Stick) Plate-AC SMAW (Stick) Plate-BC SMAW (Stick) Plate-CC SMAW (Stick) Plate-CC ning Option: Qualified students may elect to take up to d Learning in place of 3 hours Program Elective. rs Required AL COURSE REQUIREMENTS*	222222
Vork-	MAC 122 MAC 124 MAC 222 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115BC WLD 115CC Based Learn of Work-Base Credit Hour LOPMENTA 080 C 080 In DMA 010, 1	CNC Turning. CNC Milling. Advanced CNC Turning. Advanced CNC Milling. Work-Based Learning. Cutting Processes. SMAW (Stick) Plate. SMAW (Stick) Plate-AC. SMAW (Stick) Plate-BC. SMAW (Stick) Plate-CC. Ining Option: Qualified students may elect to take up to ded Learning in place of 3 hours Program Elective. Required. AL COURSE REQUIREMENTS* Computing Fundamentals. Integrated Reading Writing III. DMA 020, DMA 030 (MAT 110)	22222 1-3252
l l l l l l l l l l l l l l l l l l l	MAC 122 MAC 124 MAC 222 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115BC WLD 115CC Based Learn of Work-Base Credit Hour LOPMENTA 080 C 080 In DMA 010, 1	CNC Turning. CNC Milling Advanced CNC Turning Advanced CNC Milling. Work-Based Learning Cutting Processes SMAW (Stick) Plate. SMAW (Stick) Plate-AC. SMAW (Stick) Plate-BC. SMAW (Stick) Plate-BC. SMAW (Stick) Plate-CC. Ining Option: Qualified students may elect to take up to be defined by the state of 3 hours Program Elective. Required. AL COURSE REQUIREMENTS* Computing Fundamentals. Integrated Reading Writing III.	22222 1-3252
John John John John John John John John	MAC 122 MAC 124 MAC 222 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115AC WLD 115CC Based Learn of Work-Base Credit Hour LOPMENTA 080 C 098 C 098 C DMA 010, 1 DMA 010, 1	CNC Turning. CNC Milling. Advanced CNC Turning. Advanced CNC Milling. Work-Based Learning. Cutting Processes. SMAW (Stick) Plate. SMAW (Stick) Plate-AC. SMAW (Stick) Plate-BC. SMAW (Stick) Plate-CC. Ining Option: Qualified students may elect to take up to ded Learning in place of 3 hours Program Elective. Required. AL COURSE REQUIREMENTS* Computing Fundamentals. Integrated Reading Writing III. DMA 020, DMA 030 (MAT 110)	22222 1-3252
Vork- votal (EVE TS RE MA	MAC 122 MAC 124 MAC 224 MAC 224 WBL XXX WLD 110 WLD 115 OR WLD 115AC WLD 115AC WLD 115CC Based Learn of Work-Base Credit Hour LOPMENTA 080 C 098 In DMA 010, 1 DMA 010, 1 DMA 010, 1	CNC Turning. CNC Milling. Advanced CNC Turning. Advanced CNC Milling. Work-Based Learning. Cutting Processes. SMAW (Stick) Plate. C SMAW (Stick) Plate-AC. C SMAW (Stick) Plate-BC. SMAW (Stick) Plate-CC. SMAW (Stick) Plate-CC. Aing Option: Qualified students may elect to take up to dearning in place of 3 hours Program Elective. REQUIREMENTS* Computing Fundamentals. AL COURSE REQUIREMENTS* Computing Fundamentals. DMA 020, DMA 030 (MAT 110) DMA 020, DMA 030, DMA 040, DMA 050 (MAT 142)	22222225221 1 o 3 credit

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

section for prerequisite course information.

		Industrial Systems Tec Suggested Program					Clin/WkExp	
					Class	Lab	lin/W	Credit
Fall –	1st year	ŗ			Ö	Ä	Ö	Ö
BPR	111	Print Reading			1	2	0	2
ELC	112	DC/AC Electricity			3	6	0	5
ELC	113	Residential Wiring			2	6	0	4
ELC		National Electrical Code	e		1	2	0	2
ELC	119	NEC Calculations			1	2	0	2
			Total		8	18	0	15
Spring	s – 1st y	ear						
ELC	115	Industrial Wiring			2	6	0	4
ELC	117	Motors and Controls			2	6	0	4
ENG	111	Writing and Inquiry			3	0	0	3
MAT	121	Algebra/Trigonometry			2	2	0	3
	OR	MAT 110 Math Measurer		acy	2 2	2	0	3
	OR	MAT 143 Quantitative Lit	teracy		2	2	0	3
		IST Program Elective			3	0	0	3
			Total		12	14	0	17
Summ	er – 1st	year						
Social	/Behavi	oral Science Elective			3	0	0	3
Huma	nities/F	ine Arts Elective			3	0	0	3
			Total		6	0	0	6
Fall –	2nd yea	nr						
ISC	112	Industrial Safety			2	0	0	2
MAC	141	Machining Applications	I		2	6	0	4
MAC	142	Machining Applications	II		2	6	0	4
MNT	110	Intro to Maint Procedure	es		1	3	0	2
		IST Program Elective			3	0	0	3
			Total		10	15	0	15
Spring	s – 2nd	year						
CIS	110	Introduction to Compute	ers		2	2	0	3
-	OR	CIS 111Basic PC Litera			1	2	0	2
ENG	114	Prof Research & Reporti		ed)	3	0	0	3
	OR	ENG 112 Writing/Resea			3	0	0	3
	OR	ENG 113 Literature-Bas			3	0	0	3
HYD	110	Hydraulics/Pneumatics			2	3	0	3
WLD	112	Basic Welding Processes			1	3	0	2
		IST Program Elective			3	0	0	3
			Total	10/	11	8	0	13/1
		Gra	and Total	46/4	1 7	55	0	66/6

Work-Based Learning Option: Qualified students may elect to take up to 3 credit hours of work-based learning 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	
ELC 128	Intro to PLC	2	3	0	3	
ELN 229	Industrial Electronics	2	4	0	4	
ELN 260	Prog Logic Controller	3	3	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	
WBL XXX	Work-Based Learning	0	0	10/30	1/3	
WLD 110	Cutting Processes	1	3	0	2	
WLD 115	SMAW (Stick) Plate	2	9	0	5	
OR						
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	

Industrial Systems Technology • A50240 Evening Courses Are Offered On Demand (See Your IST Advisor)

Evenn	ng Cours	ses Are Officieu Off Demanu (See 10uf 151 A	AUVISUI			
BPR 1	11 Pr	rint Reading	2			
	10 Int	stroduction to Computers	3			
(IS 111 Basic PC Literacy				
-		C/AC Electricity				
		esidential Wiring				
		dustrial Wiring				
		lotors and Controls				
	18 Na	ational Electrical Code	2			
		EC Calculations				
ENG 1		riting and Inquiry				
ENG 1		rof Research & Reporting				
(NG 112 Writing/Research in the Disc				
		NG 113 Literatured-Based Research				
HYD 1		ydraulics/Pneumatics I				
ISC 1		dustrial Safety				
MAC 1	41 M	Iachining Applications I	4			
MAC 1		Iachining Applications II				
MAT 1		lgebra/Trigonometry I				
	OR M	IAT 110 Math Measurement & Literacy	3			
		IAT 143 Quantitative Literacy				
MNT 1		itro to Maint Procedures				
		asic Welding Processes				
Llumoniti	es/Fine Art					
Elective		15.	2			
Elective	havioral Sc	ciences.	2			
IST Progr	am Electiv	/es	9			
Stu	dents are re	equired to take a minimum of 9 SHC from the following	g:			
	IR 110	Intro to Refrigeration				
	IR 112	Heating Technology				
	IR 113	Comfort Cooling				
EL.		Intro to PLC				
EL	N 229	Industrial Electronics				
EL	N 260	Prog Logic Controllers				
	AC 122	CNC Turning				
	AC 124	CNC Milling				
	AC 222	Advanced CNC Turning				
	AC 224	Advanced CNC Milling				
WI	BL XXX	Work-Based Learning				
WI	LD 110	Cutting Processes				
WI	LD 115	SMAW (Stick) Plate				
	OR	. ()				
WI	LD 115AC	SMAW (Stick) Plate-AC	.2			
	LD 115BC					
	LD 115CC					
		, ,				
Work-Based Learning Option: Qualified students may elect to take up to 3 credit						
hours of Work-Based Learning in place of 3 hours of Program Elective.						
Total Cr	edit Hour	rs Required	66-67			
		AL COURSE REQUIREMENTS*				

DEVE	LOPMENTAL COURSE REQUIREMENTS*	
CTS	080 Computing Fundamentals	3
DRE	098 Integrated Reading Writing III	3
DMA	DMA 010, DMA 020, DMA 030, (MAT 110)	3
	DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, (MAT 143)	
DMA	DMA 010, DMA 020, DMA 030, DMA 040, DMA 050,	
	DMA 060 (MAT 121)	6

*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 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 degree 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.

_			HC				
		unications:	_				
ENG	111	Writing and Inquiry	3				
ENG	114						
	OR	ENG 113 Literatured-Based Research	3				
	nities/Fin						
Electiv	-		3				
		es/Mathematics:					
MAT	143	Quantitative Literacy					
	OR	MAT 171 Precalculus Algebra	4				
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		oral Sciences:	2				
Electiv	-		3				
MAJO	R COU						
CIS	110	Introduction to Computers	3				
CIS	115	Intro to Prog & Logic					
CTS	115	Info Sys Business Concepts					
DBA	110	Database Concepts	3				
NET	125	Networking Basics	3				
NET	126	Routing Basics					
NET	175	Wireless Technology	3				
NET	225	Routing & Switching I	3				
NET	226	Routing & Switching II	3				
NOS	110	Operating Systems Concepts	3				
NOS	120	Linux/UNIX Single User	3				
NOS	130	Windows Single User	3				
SEC	110	Security Concepts					
SEC	150	Secure Communications	3				
SEC	160	Secure Administration I	3				
SEC	210	Intrusion Detection					
SEC	220	Defense-In-Depth					
SEC	240	Wireless Security					
SEC	289	Security Capstone Project					
Wast	World Board I coming Ontion Onelife detailed at violet a more about to take 2 and it house at						

101111	JI Cuit	110u13 1tequireu	, _, , 0			
DEVELOPMENTAL COURSE REQUIREMENTS*						
CTS	080	Computing Fundamentals	3			
DRE	098	Integrated Reading Writing III	3			
DMA	DMA	. 010, DMA 020, DMA 030, DMA 040, DMA 050 (MAT	143)5			
DMA	DMA	. 010, DMA 020, DMA 030, DMA 040, DMA 050,				
	DMA	. 065 (MAT 171)	7			

^{*}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 • A2 Suggested Program Sequence D	5270 ay	0	kExp				
Fall – 1st ye	ar	Class	Lab	Clin/WkExp	Credit			
CIS 110 CIS 115 SEC 110 NET 125 DBA 110	Introduction to Computers Intro to Prog & Logic Security Concepts Networking Basics Database Concepts	2 2 2 1 2	2 3 2 4 3	0 0 0 0	3 3 3 3			
	Total	9	14	0	15			
Spring – 1st NET 126 CTS 115 NOS 110 ENG 111	year Routing Basics Info Sys Business Concepts Operating Systems Concepts Writing and Inquiry Humanities/Fine Arts Elective	1 3 2 3 3	4 0 3 0 0	0 0 0 0	3 3 3 3			
	Total	12	7	0	15			
Summer – 1 ENG 114 OR MAT 143 OR	Prof Researach & Reporting ENG 113 Literature-Based Research	3 3 2 3	0 0 2 2	0 0 0 0	3 3 4			
	Social/Behavioral Science Elective	3	0	0	3			
	Total	8/9	2	0	9/10			
Fall – 2nd y SEC 160 NET 175 NET 225 NET 226 SEC 220	ear Secure Administration I Wireless Technology Routing & Switching I (1st eight week Routing & Switching II (2nd eight week Defense-in-Depth	2 2 1) 1 1) 1 2	2 2 4 4 2	0 0 0 0 0	3 3 3 3 3			
G : 2	Total	8	14	0	15			
Spring – 2nd NOS 120 NOS 130 SEC 150 SEC 210 SEC 240 OR	Linux/UNIX Single User Windows Single User Secure Communications Intrusion Detection Wireless Security WBL Work-Based Learning	2 2 2 2 2 0	2 2 2 2 2 0	0 0 0 0 0 30	3 3 3 3 3			
SEC 289	Security Capstone Project	1	4	0	3			
	Total Grand Total 4	11	14	30	18			
7		8/49 TIDI	51 1737	30	72/73			
	INFORMATION SYSTEMS SEC	_		700	11)			
	Network Security Certificate • Cert. Prog. (C2527001) MAJOR COURSES: SHC							
NET 125	Networking Basics				SHC 3			

MAJO	SHC				
NET	125	Networking Basics	3		
NET	126	Routing Basics	3		
SEC	110	Security Concepts	3		
SEC	160	Secure Administration I	3		
SEC	210	Intrusion Detection	3		
SEC	220	Defense-In-Depth	3		
Total Credit Hours Required:					

Information Systems Security – Network Security Cert. (C2527001) Suggested Sequence

Fall - 1	st year	r					
SEC 1	10	Security Concepts		2	2 4	0	3
NET 1	25	Networking Basics		1	4	0	3
			Total	3	6	0	6
Spring -	1st y	rear					
NET 1	26	Routing Basics		1	4	0	3
			Total	1	4	0	3
Fall - 2	nd yea	ar					
SEC 1	60	Secure Administration I		2	2	0	3
SEC 2	20	Defense-In-Depth		2	2	0	3
			Total	4	4	0	6
Spring -	-2nd	year Intrusion Detection					
SEC 2	10	Intrusion Detection			2	0	3
			Total	2	2	0	3
		Gran	d Total	10	16	0	18

INFORMATION SYSTEMS SECURITY Operating System Security Certificate Certificate Program (C2527003)

MAJO	DR COU	JRSES:	SHC		
NET	125	Networking Basics	3		
NOS	110	Operating Systems Concepts			
NOS	120	Linux/UNIX Single User			
NOS	130	Windows Single User			
SEC	110	Security Concepts			
SEC	150	Secure Communications			
Total Credit Hours Required1					

Information Systems Security Operating Security Certificate (C2527003) Suggested Sequence

SEC NET	1st year 110 125 110	r Security Concepts Networking Basics Operating Systems Concepts	Selass 1 2	বু এ 4 3	$\circ \circ \text{G}_{\text{in}}\text{/WkExp}$	S & Credit
		Total	6	7	0	9
Spring	g - 1st y	rear				
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

INFORMATION SYSTEMS SECURITY Wireless Security Certificate

Certificate Program (C2527004)

MAJ(DR CO	URSES:SHC	2		
NET	125	Networking Basics	3		
NET	175	Wireless Technology			
NOS	110	Operating Systems Concepts			
SEC	110	Security Concepts			
SEC	150	Secure Communications			
SEC	240	Wireless Security	3		
		·			
Total Credit Hours Required					

Information Systems Security Wireless Security Certificate (C2527004) Suggested Sequence

Fall – 1st yea SEC 110 NET 125			2	2 4	0	3
	Č	Total	3	6	0	6
Spring – 1st	year					
NOS 110	Operating Systems Conc	epts	2	3	0	3
SEC 150	Secure Communications	•	2	3 2	0	3
		Total	4	5	0	6
Fall - 2nd ve	ear					
NET 175	ear Wireless Technology		2	2	0	3
		Total	2	2	0	3
Spring - 2nd	vear					
SEC 240	year Wireless Security		2	2	0	3
	.,	Total	2	2	0	3
	Gran	d Total	11	15	0	18

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: five semesters full-time attendance. The Associate in Applied Science degree is awarded graduates of this curriculum.

The Mechanical Engineering Technology curriculum prepares graduates to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, computer applications, critical thinking, planning and problem solving, and oral and written communications. Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

GENERAL EDUCATION COURSES:

Englisl	h/Comn	nunications:	
ENG	111	Writing and Inquiry	3
ENG	114	Prof Research & Reporting	3
	OR	ENG 112 Writing/Research in the Disc	
	OR	ENG 113 Literature-Based Research	
Llumor		ne Arts:	
Electiv		ne Atts.	2
	-		3
		ces/Mathematics:	
MAT	171	Precalculus Algebra	
	OR	MAT 121 Algebra/Trigonometry I	3
Social/	Behavi	oral Sciences:	
Electiv	re		3
MATO	D COI	UDCEC.	
		URSES:	
CSC	134	C++ Programming	
EGR	250	Statics/Strength of Mater	
ELC	112	DC/AC Electricity	
DFT	111	Technical Drafting I	
DFT DFT	111A 151	Technical Drafting I LabCAD I	
DFT	151	CAD III	
ELN	231	Industrial Controls	
MAC	141	Machining Applications 1	
MAT	172	Precalculus Trigonometry	
	OR	MAT 122 Algebra/Trigonometry II	
MEC	161	Manufacturing Processes I	3
MEC	180	Engineering Materials	
MEC	231	Comp-Aided Manufact I	3
MEC	265	Fluid Mechanics	
MEC	270	Machine Design	
PHY	151	College Physics I	
	OR	PHY 131 Physics-Mechanics	
WLD	112	Basic Welding Processes	2
Work	Dosed I	Learning Option: Qualified students may elect to take 4 credit	t hours
		3 .	Hours
of Wor	k-Base	d Learning in place of MEC 270.	
Total	Credit	Hours Required	69/71
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	
DMA		. 010, DMA 020, DMA 030, DMA 040, DMA 050,	
DIVIA			

^{*}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 065 (MAT 171)7

Mechanical Engineering Technology • A40320 Suggested Program Sequence Day

	Suggested 110gran	o sequence i	-u-y			
DFT 151 ENG 111 MAT 171 OR MEC 180 Spring – 1s	C++ Programming CAD I Writing and Inquiry Precalculus/Algebra MAT 121 Algebra/Trigone Engineering Materials		See D 2 2 3 3 2 2 11/12	3 3 0 2 2 3 11	0 0 0 0 Clin/WkExp	3 3 3 4 3 3 15/16
DFT 111A	A Technical Drafting I Lab		0	3	0	1
ELC 112	DC/AC Electricity		3	6	0	5
	Precalculus Trigonometry	•	3	2	0	4
OR			2	2	0	3
	Manufacturing Processes		3	0	0	3
	Basic Welding Processes		1	3	0	2
	Ü	Total	10/11	17	0	16/17
OR OR	Prof Research & Reporting (ENG 112 Writing/Research ENG 113 Literature-Base	ch in the Disc	3	0 0 0	0 0 0	3 3 3
Huma	nities/Fine Arts Elective		3	0	0	3
Fall – 2nd	waar	Total	6	0	0	6
DFT 153			2	3	0	3
	Statics/Strength of Mater		4	3	0	5
	Industrial Controls		2	3	0	3
	College Physics I		3	2	0	4
OR	PHY 131 Physics-Mechan	nics	3	2	0	4
OK	THE 131 Filysics-ivicelian	Total	11	11	0	15
	nd year Machining Applications I Comp-Aided Manufact I Fluid Mechanics Machine Design l/Behavioral Science Electi		2 1 2 3 3	6 4 2 3 0	0 0 0 0	4 3 3 4 3
		Total	11	15	0	17
	Gran	nd Total	49/51	54	0	69/71

Work-Based Learning Option: Qualified students may elect to take up to 4 credit hours of Work-Based Learning in place of MEC 270.

SHC

DMA 060 (MAT 121)

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

MECHATRONICS ENGINEERING TECHNOLOGY A.A.S. Program (A40350)

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

The Mechatronics Engineering Technology curriculum prepares graduates to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.

SHC

GENERAL EDUCATION COURSES:

		JUCATION COURSES: SHC	-
_		nications:	
ENG	111	Writing and Inquiry	3
ENG	114	Prof Research & Reporting	3
Humai	nities/Fine	e Arts:	
Electiv	/e		3
Natura	d Sciences	s/Mathematics:	
MAT	171	Precalculus Algebra	1
	OR	MAT 121 Algebra/Trigonometry I	3
Social	Behaviora	al Sciences:	
Electiv	/e	3	3
MAIO	R COUR	SFS.	
ATR	112	Intro to Automation	3
BPR	111	Blueprint Reading 2	
CIS	110	Intro to Computers	
DFT	151	CAD I	
ELC	112	DC/AC Electricity	;
ELC	117	Motors and Controls	
ELC ELC	128 213	Intro to PLC	
ELN	229	Industrial Electronics. 4	
HYD	110	Hydraulics/Pneumatics 3	
ISC	112	Industrial Safety2	
MEC	130	Mechanisms 3	3
MNT	110	Intro to Maintenance	
PHY	151 OR	College Physics I	ļ 1
	OK	FITT 131 Filysics-Mechanics	ŀ
Progra	ım elective	es:	í
		ired to take a minimum of 6 SHC from the following:	
		arning Option: Qualified students may elect to take up to 4 credit	
		ased Learning	
	GGG 124	C C C	
	CSC 134 CSC 139		
	ELC 111	8	
	ELN 260	Prog Logic Controllers	
	MAC 141		
	MAC 142	Machining Applications II4	
	MEC 180	Engineering Materials	
	NET 125	Networking Basics	
	PHY 133 WBL 110		
	WBL XX		
	WLD 112	8	
Total (Credit Ho	ours Required 66/67	1
DEVE	I ODMEN	TAL COURSE DECUIDEMENTS*	
CTS	O80	TAL COURSE REQUIREMENTS* Computing Fundamentals	2
DRE	080		
DMA		Integrated Reading Writing III	,
DMA		0, DMA 020, DMA 030, DMA 040, DMA 030, 0 (MAT 121)	5
DMA		0, DMA 020, DMA 030, DMA 040, DMA 050,	,
DMA	DMA 06	0, DMA 020, DMA 030, DMA 040, DMA 030, 5 (MAT 171)7	7
*Devel	lopmental	coursework (including all prerequisites) will be required of studen	ts

*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.

Mechatronics Engineering Technology • A40350 Suggested Program Sequence Day

Fall – 1st year BPR 111 Blueprint Reading 1 CIS 110 Intro to Computers 2 ELC 112 DC/AC Electricity 3 ENG 111 Writing and Inquiry 3 MAT 171 Precalculus Algebra 3 OR MAT 121 Algebra/Trigonometry I 2 Total 11/12	2 2 6 0 2 2	0 0 0 0 Clin/WkExp	15 16/17
Spring – 1st year	2	0	2
DFT 151 CAD I 2 ELC 117 Motors and Controls 2	3 6	$0 \\ 0$	3 4
ELN 229 Industrial Electronics 2	4	0	4
DFT 151 CAD I 2 ELC 117 Motors and Controls 2 ELN 229 Industrial Electronics 2 ENG 114 Prof. Research and Reporting 3 MEC 130 Mechanisms 2	0	0	4 3 3
Total 1	-	•	17
Summer – 1st year	1 13	, 0	1 /
Humanities/Fine Arts Elective 3	0	0	3
Social/Behavioral Science Elective 3	0	0	3
Total 6	0	0	6
Fall – 2nd year	•		
ATR 112 Intro to Automation 2 ISC 112 Industrial Safety 2	3	$0 \\ 0$	3 2 2 4
MNT 110 Intro to Maint Procedures 1	3	0	2
PHY 151 College Physics I 3	2	0	4
ATR 112 Intro to Automation 2 ISC 112 Industrial Safety 2 MNT 110 Intro to Maint Procedures 1 PHY 151 College Physics I 3 OR PHY 131 Physics-Mechanics 3 Program Elective 2	0 3 2 2 3	0	4
Total 10	11	•	14
Spring - 2nd year	11	U	14
ELC 213 Instrumentation 3	2	0	4
ELC 213 Instrumentation 3 ELC 128 Intro to PLC 2 HYD 110 Hydraulics/Pneumatics 2 Program Elective 2	2 3 3 3	$0 \\ 0$	4 3 3 3
Program Elective 2	3	0	3
Total 9	11	0	13
Grand Total 47/48	49	0	66/67

Mechatronics Engineering Technology Suggested Program Sequence Day Certificate Program (C40350)

MAJ(OR CO	URSES:	SHC		
ATR	112	Intro to Automation	3		
ELC	112	DC/AC Electricity	5		
HYD	110	Hydraulics/Pneumatics	3		
ISC	112	Industrial Safety	2		
MEC	130	Mechanisms	3		
Total Credit Hours Required16					

Mechatronics Engineering Technology Suggested Sequence

Fall –	1st yea	ar					
ATR	112	Intro to Automation		2	3	0	3
ELC	112	DC/AC Electricity		3	3 6	0	5
ISC	112	Industrial Safety		2	0	0	2
			Total	7	9	0	10
Spring	g - 1st	year					
		Hydraulics/Pneumatics		2	3 2	0	3
MEC		Mechanisms		2	2	0	3
			Total	4	5	0	6
		Gran	d Total	11	14	0	16

MEDICAL OFFICE ADMINISTRATION A.A.S. Program (A25310)

This curriculum prepares individuals for employment in medical and other health-care related offices. Coursework 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. Graduates will be eligible to sit for coding certification exams sponsored by the coding profession.

GENERAL EDUCATION COURSES:

English	/Commu	nications:
ENG	111	Writing and Inquiry3
ENG	114	Prof Research & Reporting
	OR	ENG 112 Writing/Research in the Disc
	OR	ENG 113 Literature-Based Research
Human	ities/Fine	Arts
Elective	e:	3
Natural	Science/	Mathematics:
MAT	110	Math Measurement & Literacy
	OR	MAT 143 Quantitative Literacy
	OR	MAT 152 Statistical Methods I4
Social/I	Behaviora	al Sciences
Elective	e:	3
MATOI	COUD	O.P.O.
CIS	R COURS	
		Introduction to Computers
HMT	110	Introduction to Healthcare Mgt
HMT	211	Long-Term Care Admin
MED	114	Prof Interac in Heal Care
MED	121	Medical Terminology I
MED	122	Medical Terminology II
OST	132	Keyboard Skill Building
OST	136	Word Processing 3
OST	140	Internet Comm/Research 2
OST	148	Med Coding Billing & Insur
OST	149	Medical Legal Issues
OST	164	Text Editing Applications
OST	243	Med Office Simulation
OST	247	Procedure Coding2
OST	248	Diagnostic Coding
OST	249	CPC Certification4
OST	281	Emerg Issues in Med Ofc
OST	286	Professional Development
WBL	XXX	Word-Based Learning
Total C	redit Hou	ırs Required66
		Course Requirements:
CTS	080	Computing Fundamentals
DMA	DMA 01	0, DMA 020, DMA 030 (MAT 110)
DMA		0, DMA 020, DMA 030, DMA 040, DMA 050
		43, MAT 152)5
DRE	098	Integrated Reading Writing III
OST	080	Keyboarding Literacy
		•

Medical Office Administration • A40350 Suggested Program Sequence Day

Fall – CIS HMT OST OST OST	1st yea 110 110 132 136 149 164	Introduction to Computers Introduction to Healthcare Mgt Keyboard Skill Building Word Processing Medical Legal Issues Text Editing Applications Total	2 3 1 2 3 3	qe 1 2 0 2 2 0 0 6	0 0 0 Clin/WkExp	3 3 2 3 3 3 17
a :	•	**				
Spring HMT MED MED MED OST	211 114 121	Year Long-Term Care Admin Prof Interac in Heal Care Medical Terminology I Medical Terminology II Emerg Issues in Med Off Total	3 1 3 3 3 13	0 0 0 0 0	0 0 0 0 0	3 1 3 3 3
	/Behav nities/I	st Year vioral Science Elective Fine Arts Elective Writing and Inquiry Total	3 3 3 9	0 0 0	0 0 0	3 3 3 9
Fall – OST OST OST OST OST	148 243	ear Med Coding Billing & Insurance (1st 8wks) Med Office Simulation (2nd 8wks) Prodedure Coding Diagnostic Coding Professional Development	3 2 1 1 3	0 2 2 2 0	0 0 0 0	3 3 2 2 3
		Total	10	6	0	13
Spring ENG MAT OST OST WBL	114 OR OR 110 OR OR 140 249		3 3 3 2 2 3 1 3 0	0 0 0 2 2 2 2 2 2	0 0 0 0 0 0 0 0 0 20	3 3 3 3 4 2 4
		Total	9	6	20	14
		Grand Total	55	10	20	66

Grand Total

55 18 20 66

^{*}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. Coursework 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.

CENEDAL EDUCATION COURSES.

GENI	ERAL E	EDUCATION COURSES: SHC
English	n/Commu	unications:
ENG	111	Writing and Inquiry3
Social/	Behavior	ral Sciences:
Electiv	-	3
MAJO	R COU	RSES:
CIS	110	Introduction to Computers
HMT	110	Intro to Healthcare Mgt3
MED	114	Prof Interaction in HC
MED	121	Medical Terminology I
MED	122	Medical Terminology II
OST	132	Keyboard Skill Building2
OST	136	Word Processing
OST	148	Med Coding Billing & Insu
OST	149	Medical Legal Issues
OST	164	Text Editing Applications
OST	243	Med Office Simulation
OST	247	Procedural Coding
OST	248	Diagnostic Coding
OST	281	Emer Issues in Med Ofc
Total C	Credit H	ours Required:43
DEVE	LOPMEN	NTAL COURSE REQUIREMENTS
CTS	080	Computing Fundamentals
DRE	098	Integrated Reading Writing III
OST	080	Keyboarding Literacy

^{*}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					.t.
Fall – 1st ye	ar	Class	Lab	Clin/WkExp	Credit
HMT 110	Intro to Healthcare Mgt	3	0	0	3
MED 121	Medical Terminology I (1st Eight Wks)	3	0	0	3
MED 122	Medical Terminology II (2nd Eight Wks)	3	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 - 1st	year				
CIS 110	Introduction to Computers	2	2	0	3
MED 114	Prof Interaction in HC	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 - 1	st year				
OST 149	Medical Legal Issues	3	0	0	3
ENG 111	Writing and Inquiry	3	0	0	3
Social/	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 tis 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 entry-level jobs as local area network managers, network operators, network analysts, and network technicians. Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

then rocar	program.
	L EDUCATION COURSES: SHC
	nmunications:
ENG 111	Writing and Inquiry
ENG 114	
OR	ENG 113 Literature-Based Research
Humanities/	Fine Arts:
Elective	3
Natural Scie	nces/Mathematics:
MAT 143	Quantitative Literacy
OR	MAT 171 Precalculus Algebra4
Social/Beha	vioral Sciences:
Elective	3
MAJOR CO	
CIS 110	Introduction to Computers
CIS 115	Intro to Prog & Logic
CTS 115	Info Sys Business Concepts 3
CTS 120	Hardware/Software Support
CTS 286	Network Support
DBA 110	Database Concepts
NET 125	Networking Basics3
NET 126	Routing Basics
NET 225	Routing & Switching I
NET 226	Routing & Switching II
NET 240	Network Design
NOS 110	Operating System Concepts
NOS 120 NOS 130	Linux/UNIX Single User 3 Windows Single User 3
NOS 130 NOS 230	Windows Administration I 3
NOS 231	Windows Administration II
SEC 110	Security Concepts
	Work-Based Learning 2
	<i>y</i>
Networking	Elective
Studer	nts must select one course from the following:
CIS	
NET NET	175 Wireless Technology
NOS	
	150 Secure Communications
SEC	160 Security Administration 3
~	•
Total Credi	t Hours Required71/72
DEVELOP	MENTAL COURSE REQUIREMENTS*
CTS 080	Computing Fundamentals
DRE 098	Integrated Reading Writing III
	A 010, DMA 020, DMA 030, DMA 040, DMA 050 (MAT 143)5
	A 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 065 (MAT 171)7
*Develonme	ental coursework (including all prerequisites) will be required of
20. Cropine	transfer (mercaning an 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

	Suggested Frogram s	sequence D	ау		Exp	•
T. 11 . 1 .			Class	Lab	Clin/WkExp	Sredit
Fall – 1st y NOS 110	ear Operating System Concept	·e	2	3	0	3
NET 125	Networking Basics	.5	1	4	0	3
SEC 110	Security Concepts		2	2	0	3
CIS 115	Intro to Prog & Logic		2	3	0	3
CIS 110	Introduction to Computers		2	2	0	3
		Total	9	14	0	15
Spring – 1s	=					
CTS 120	Hardware/Software Suppo	rt	2	3	0	3
NET 126	Routing Basics		1	4	0	3
NET 240 NOS 120	Network Design Linux/UNIX Single User		3 2	0	0	3
NOS 120 NOS 130	Windows Single User		2	2	0	3
	nities/Fine Arts Elective		3	0	0	3
		Total	13	11	0	18
Summer –	1st vear					
	Writing and Inquiry		3	0	0	3
MAT 143	Quantitative Literacy		2	2	0	3
OR	MAT 171 Precalculus Alge	ebra	3	2	0	4
Social	Behavioral Science Electiv	e	3	0	0	3
		Total	8/9	2	0	9/10
Fall – 2nd y	year					
NET 225	υ .		1	4	0	3
NET 226	υ υ	ec eight wks)	1	4	0	3
DBA 110	Database Concepts		2	3	0	3
NOS 230	Windows Administration I		2	2	0	3
		Total	6	13	0	12
Spring – 2n	nd year					
	Network Support		2	2	0	3
Netw	orking Elective		3	0	0	3
ENG 114	Prof Research & Reporting		3	0	0	3
OR CTC 115	ENG 113 Literature-Based		3	0	0	3
CTS 115	Info Sys Business Concept		3	0	0	3
NOS 231 WBLXXX	Windows Administration I Work-Based Learning	I	2	2	0 20	3 2
	S	Total	13	4	20	17
	Grand		9/50	44	20	71/72
	Grand	101111 4	1150		20	11/14

NETWORKING TECHNOLOGY CCNA – Cisco Certified Network Associate Certificate Program (C2534001)

MAJOR COURSES:					SHC			
NET 126 Routing Basics NET 225 Routing & Switch	sing I				3			
NET 226 Routing & Switch	ing II	•••••			3			
Total Credit Hours Required		••••	•••••	•••••	12			
Networking Technology – CC Fall – 1st year	CNA Cert. (C2534001) Su	ıgg	ested	l Se	q. Day			
NET 125 Networking Basics		1	4	0	3			
Spring – 1st year	Total	1	4	0	3			
NET 126 Routing Basics		1	4	0	3			
S	Total	1	4	0	3			
Fall – 2nd year	* (T)			_	2			
	ng I (First eight weeks)	1	4	0	3			
NET 226 Routing & Switching	g II (Second eight weeks) Total	1 2	4 8	0	3			
	Grand Total	4	8 16	-	12			
	Grand Total	7	10	U	12			
Networking Technology – CC	NA Cort (C253/001) Suc	ann	etad	Sad	n Night			
Fall – 1st year	MA CCI L (C2354001) Su	ggu	sicu	Bu	4. rugiit			
NET 125 Networking Basics		1	4	0	3			
NET 126 Routing Basics		1	4	0	3			
	Total	2	8	0	6			
Spring – 1st year								
NET 225 Routing & Switchi	ng I (First eight weeks)	1	4	0	3			
•	II (Second eight weeks)	1	4	0	3			
	Total	2	8	0	6			
	Grand Total	4	16	0	12			
NETWORKING TECHNOLOGY Operating Systems Certificate Program (C2534004) MAJOR COURSES: SHC								
NOS 110 Operating System NOS 120 Linux/UNIX Sing	Conceptsle User				3			
NOS 130 Windows Single U	Jser				3			
NOS 230 Windows Adminis	stration I				3			
NOS 244 Operating System Total Credit Hours Required	- AS/400							
•								
Operating Systems Certific	cate (C2534004) – Sugg	est	tea S	eq	uence			
Fall – 1st year NOS 110 Operating Systems (Concepts	2	3	0	3			
- r 2 , 2 , 2 , 2 , 2 , 2 , 2 , 2 ,	Total	2	3	0	3			
Spring – 1st year								
NOS 130 Windows Single Use		2	2	0	3			
NOS 120 Linux/UNIX Single	User Total	2 4	4	0	6			
	iotai	_	7	U	J			

 $2\quad 2\quad 0\quad 3$

2 2 0 3 2 2 0 3

10 11 0 15

Total

Total Grand Total

Fall – 2nd year NOS 230 Windows Admin I

Spring – 2nd year NOS 244 Operating System – AS/400

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.

GENI	ERAL	EDUCATION COURSES:	SHC
Englis		munications:	
ENG	111	Writing and Inquiry	3
ENG	113 OR	Literature-Based Research. ENG 114 Prof Research & Reporting	3
Natura		nces/Mathematics:	
		Math Measurement & Literacy	3
Huma: Electiv		ine Arts:	3
Social Electiv		ioral Sciences:	3
MAIC	R COI	URSES:	
		Prin of Financial Accounting	4
BUS	115	Business Law I	3
BUS	260	Business Communication	3
CIS	110	Introduction to Computers	3
CTS	130	Spreadsheet	3
OST	132	Keyboard Skill Building	2
OST	136	Word Processing	3
OST	137	Office Software Applicat	3
OST	153	Office Finance Solutions	
OST	164	Text Editing Applications	
OST	165	Adv Text Editing Apps	3
OST	181	Intro to Office Systems	
OST	184	Records Management	
OST	284	Emerging Technologies	2
OST	286	Professional Development	3
	289	Administrative Office Mgt	3
WEB		Internet/Web Fundamentals	3
OF WBL	XXX	Work-Based Learning	3
Work-	Based 1	Learning Option: Qualified students may elect to take 3 credit h	ours of
Work-l	Based L	earning in place of WEB 110.	
Total	Credit	Hours Required	64
DEVE	LOPM	ENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	3
DMA	DMA	010, DMA 020, DMA 030 (MAT 110)	
DMA		. 010, DMA 020, DMA 030, DMA 040, DMA 050 (MAT 143)	

Keyboarding Literacy......2

Office Administration • A25370 Suggested Program Sequence Day

ENG 1 OST 1 OST 1	110 111	Introduction to Computers Writing and Inquiry Keyboard Skill Building Text Editing Applications Word Processing	2 Class 2	qp 7 2 0 2 0 2	0 0 0 Clin/WkExp	3 3 2 3 3
		Total	11	6	0	14
Spring -	_ 10	t waar				
	- 13 184	Records Management	2	2	0	3
	30	Spreadsheet	2	2	0	3
ENG 1	13	Literature-Based Research	3	0	0	3
(OR	ENG 114 Prof Research & Reporting 3	0	0	3	
OST 2	284	Emerging Technologies	1	2	0	2
OST 1	137	Office Software Applicat	2	2	0	3
OST 1	81	Intro to Office Systems	2	2	0	3
		Total	12	10	0	17
Fall - 2						
		Prin of Financial Accounting	3	2	0	4
		Business Communication	3	0	0	3
		Math Measurement & Literacy	2	2	0	3
	OR	- (2 2	2	0	3
OST 1 OST 2	165 286	5 FF	3	2	0	3
031 2	200	Floressional Development	3	U	U	3
		Total	13	6	0	16
Spring -	– 2n	d year				
	289		2	2	0	3
WEB 1	110	Internet/Web Fundamentals	2	2	0	3
	OR	WBL XXX Work-Based Learning	0	0	30	3
	153	Office Finance Solutions	1	2	0	2
	115	Business Law I	3	0	0	3
		nities/Fine Art Elective	3	0	0	3
So	ocial/	Behavioral Science Elective	3	0	0	3
		Total 12	/14	6	0/30	17

Grand Total

50 28 0/30 64

^{*}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 Diploma Program (D25370)

GENE	RAL E	DUCATION COURSES:	SHC
Englis	h/Comn	nunications:	
ENG	111		
ENG	113	Literature-Based Research	3
	OR E	NG 114 Prof Research & Reporting	3
MAJO	R COU	RSES:	
BUS	115	Business Law I	3
CIS	110	Introduction to Computers	3
CTS	130	Spreadsheet	3
OST	132	Keyboard Skill Building	2
OST	136	Word Processing	3
OST	137	Office Software Applicat	3
OST	153	Office Finance Solutions	2
OST	164	Text Editing Applications	3
OST	181	Intro to Office Systems	3
OST	184	Records Management	3
WEB	110	Internet/Web Fundamentals	3
Total (Credit I	Hours Required:	37
DEVE	LOPMI	ENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	3
OST	080	Keyboarding Literacy	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 – Diploma (D25370) Suggested Sequence					
Fall - 1st yea CIS 110 OST 132 OST 136 OST 164 ENG 111	Introduction to Computers Keyboarding Skill Building Word Processing Text Editing Applications Writing and Inquiry	2 Class	2 2 0 0	0 0 0 0 0 Clin/WkExp	2 S Credit
	Total	11	6	0	14
Spring - 1st : OST 181 OST 184 OST 137 OST 153 CTS 130 WEB 110	Jean Intro to Office Systems Records Management Office Software Applicat. Office Finance Solutions Spreadsheet Internet/Web Fundamentals	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
Summer - 1s ENG 113 OR BUS 115	Literature-Based Research	3 3 3	0 0 0	0 0 0	3 3 3
	Total Grand Total	6 28	0 18	0	6 37

OFFICE ADMINISTRATION Certificate Program (C25370)

		Certificate Progr	am (C25370)			
MAJOI	R COI	URSES:					SHC
CIS	110	Introduction to Computers	3				3
OST	132	Keyboard Skill Building					
OST	136	Word Processing					
OST	164	Text Editing Applications.					
OST	181	Intro to Office Systems					
OST	184	Records Management					
Total C	redit	Hours Required:				••••	17
DEVEL	LOPM	ENTAL COURSE REQUIRE	MENTS*				
CTS	080	Computing Fundamentals					3
DRE	098	Integrated Reading Writin					
OST	080	Keyboarding Literacy	-				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 –		2537	(0)		
ъ.	4 .	Suggested S	equence				
Fall –				2	2	0	2
CIS	110	Introduction to Computers	3	2	2	0	3 2
		Keyboarding Skill Buildin Word Processing	ıg	2	2	0	3
		Text Editing Applications		3	0	0	3
031	104	Text Editing Applications	TP 4 1	-	Ü	Ů	_
Spring	– 1st	vear	Total	8	6	0	11
		Intro to Office Systems		2	2	0	3
OST	184	Records Management		2	2	0	3
051	101	records wanagement	m . 1	_	_		
			Total	4	4	0	6
			Grand Total	12	10	0	17
OFFICE ADMINISTRATION Microsoft Office Specialist Certificate (MOS) Certificate Program (C2537001)							
MAJOI	R COI	URSES:					SHC
CIS	110	Introduction to Computer	5				3
CTS	130	Spreadsheet					
OST	136	Word Processing					3
OST	137	Office Software Applicat.					3
Total C	redit	Hours Required:			•••••		12
DEVEL	LOPM	ENTAL COURSE REQUIRE	MENTS*				
	080	Computing Fundamentals					3
	098	Integrated Reading Writin					
*Develo	opmer	ntal coursework (including al	l prerequisites)	will ł	e re	auir	ed of
students	s who	se placement test scores indicate	ate a need for gre	eater	profi	cier	icy in
the area	as of r	eading, English, mathematics, iptions section for prerequisit	and computers.	Plea			
Course	Desci	ipuons section for prefequisit	c course iiiioima	uiOII.			
	Of	fice Administration – Mic			cialis	st	

Office Administration – Microsoft Office Specialist Certificate (C2537001) Suggested Sequence

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

GENERAL EDUCATION COURSES:	SHC
English/Communications:	
ENG 111 Writing and Inquiry	3
ENG 113 Literature-Based Research	
OR ENG 114 Prof Research & Reporting	3
Humanities/Fine Arts:	
Elective	3
Natural Sciences/Mathematics:	
MAT 143 Quantitative Literacy	
OR MAT 152 Statistical Methods I	
OR MAT 171 Precalculus Algebra	4
Social/Behavioral Sciences:	
Elective	3
MAJOR COURSES:	
PHO 110 Fund of Photography	
PHO 113 History of Photography	
PHO 115 Basic Studio Lighting PHO 120 Intermediate Photography	4
PHO 139 Intro to Digital Imaging	
PHO 150 Portfolio Development I.	4
PHO 216 Documentary Photography	4
PHO 217 Photojournalism I	
PHO 219 Digital Applications	2
PHO 220 Business of Photography	
PHO 224 Multimedia Production PHO 226 Portraiture	
PHO 235 Commercial Photography	
PHO 250 Portfolio Development II	
WBL 110 World of Work	
PHO Program Electives	
Students are required to take a minimum of 1 SHC from the fo	
BUS 110 Introduction to Business	.3
BUS 125 Personal Finance	
BUS 137 Principles of Management	
BUS 139 Entrepreneurship I	.3
CIS 110 Introduction to Computers	.3
PHO 131 View Camera	.4
PHO 180 Creative Problem Solving	.3
PHO 275 Travel/Outdoor Photo	.3
OTHER REQUIRED COURSES:	
ACA 111 College Student Success	1
Total Credit Hours Required	70/72
DEVELOPMENTAL COURSE REQUIREMENTS*	
CTS 080 Computing Fundamentals	3
DRE 098 Integrated Reading Writing III	3
DRE 098 Integrated Reading Writing IIIDMA DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 (MAT 143/MA	Т 152)5
DMA DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 065 (MA	AT 171).7
*Developmental coursework (including all prerequisites) will be red	quired of
students whose placement test scores indicate a need for greater profi	ciency in
the areas of reading, English, mathematics, and computers. Please re	fer to the

Photographic Techn Suggested Program				kExp			
Foll let year		Class	Lab	Clin/WkExp	Credit		
Fall – 1st year ACA 111 College Student Success ENG 111 Writing and Inquiry			0 0	0	1		
PHO 110 Fund of Photography PHO 113 History of Photography		1 3 3 3	6	0	1 3 5 3 2		
PHO 139 Intro to Digital Imaging		1	3	0	2		
_	otal	11	9	0	14		
Spring – 1st year PHO 115 Basic Studio Lighting PHO 120 Intermediate Photography		2 2	6	0	4 4		
PHO 120 Intermediate Photography PHO 219 Digital Applications		1	3	0	2 3		
PHO 220 Business of Photography PHO 224 Multimedia Production		3 2	0	0	3		
	otal	10	16	0	16		
Summer – 1st year ENG 113 Literature-Based Research		3	0	0	3		
OR ENG 114 Prof Research an Humanities/Fine Arts Elec	tive 1	3	0	0	3 3 3		
Social/Behavioral Science	Elective	3	0	0	9		
Fall – 2nd year	omi						
PHO 150 Portfolio Development I PHO 217 Photojournalism I		3	3 6	0	4		
PHO 226 Portraiture PHO 235 Commercial Photography		3 2	3 4	$0 \\ 0$	4 4		
	otal	9	16	0	16		
Spring – 2nd year MAT 143 Quantitative Literacy		2	2	0	3		
OR MAT 152 Statistical Metho OR MAT 171 Precalculus Alge	ebra	3	2	$0 \\ 0$	4 4		
PHO 216 Documentary Photography PHO 250 Portfolio Development II	I	2 2	4 4	$0 \\ 0$	4 4		
Program Elective WBL 110 World of Work		1	0	0	3/4 1		
To	otal	7/8	10	0	15/17		
Grand To	otal 4	6/47	51	0	70/72		
Photographic Technology	Certificate •	(C30	280)				
MAJOR COURSES:PHO 110 Fund of Photography	•••••		•••••	•••••	SHC		
PHO 115 Basic Studio Lighting PHO 139 Intro to Digital Imaging					4		
PHO 219 Digital Applications PHO 224 Multimedia Production					2		
Total Credit Hours Required					16		
1							
Photographic Technology Certificate • (C30280) Suggested Program Sequence							
Fall – 1st year PHO 110 Fund of Photography		3	6	0	5		
PHO 110 Fund of Photography PHO 139 Intro to Digital Imaging		1 4	6 3 9	0	5 2 7		
Spring – 1st year	Total	Ċ		0			
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 Production				0	3		
	Total	2	3	ŏ	3		
	Grand Total	9	21	0	16		

Course Descriptions 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. CENEDAL EDUCATION COURSES.

English/Communications: 3 ENG 111 Writing and Inquiry 3 ENG 114 Prof Research & Reporting 3 OR ENG 112 Writing/Research in the Disc 3 OR ENG 113 Literature-Based Research 3 Humanities/Fine Arts: 3 Elective 3 MAT 143 Quantitative Literacy 3 Social/Behavioral Sciences: 3 Elective 3 MAJOR COURSES: 3 BIO 163 Basic Anat & Physiology 5 CIS 110 Introduction to Computers 3 ELC 111 Intro to Electricity 3 MED 118 Medical Law and Ethics 2 MED 121 Medical Terminology I 3 MED 122 Medical Terminology II 3 PSG 110 Intro to Polysomnography 4 PSG 111 Neuro/Cardiopulmonary A&P 4 PSG 210 Polysomnography II 7 PSG 211 Polysomnography II 7 PSG 211 Polysomnography II 7
ENG 114
ENG 114 Prof Research & Reporting .3 OR ENG 112 Writing/Research in the Disc .3 OR ENG 113 Literature-Based Research .3 Humanities/Fine Arts: Elective .3 Natural Sciences/Mathematics: .3 MAT 143 Quantitative Literacy .3 Social/Behavioral Sciences: Elective MAJOR COURSES: BIO 163 Basic Anat & Physiology CIS 110 Introduction to Computers ELC 111 Intro to Electricity MED 121 Medical Terminology I MED 122 Medical Terminology II
OR ENG 113 Literature-Based Research 3 Humanities/Fine Arts:
OR ENG 113 Literature-Based Research 3 Humanities/Fine Arts:
Selective
Natural Sciences/Mathematics: MAT 143 Quantitative Literacy
MAT 143 Quantitative Literacy 3 Social/Behavioral Sciences: 3 Elective 3 MAJOR COURSES: 3 BIO 163 Basic Anat & Physiology 5 CIS 110 Introduction to Computers 3 ELC 111 Intro to Electricity 3 MED 118 Medical Law and Ethics 2 MED 121 Medical Terminology I 3 MED 122 Medical Terminology II 3 PSG 110 Intro to Polysomnography 4 PSG 111 Neuro/Cardiopulmonary A&P 4 PSG 112 PSG Fundamentals 3 PSG 210 Polysomnography I 7 PSG 211 Polysomnography II 7
Social/Behavioral Sciences: Elective
Social/Behavioral Sciences: Elective
MAJOR COURSES: BIO 163 Basic Anat & Physiology 5 CIS 110 Introduction to Computers 3 ELC 111 Intro to Electricity. 3 MED 118 Medical Law and Ethics 2 MED 121 Medical Terminology I 3 MED 122 Medical Terminology II 3 PSG 110 Intro to Polysomnography 4 PSG 111 Neuro/Cardiopulmonary A&P 4 PSG 112 PSG Fundamentals 3 PSG 210 Polysomnography I 7 PSG 211 Polysomnography II 7
BIO 163 Basic Anat & Physiology 5 CIS 110 Introduction to Computers 3 ELC 111 Intro to Electricity 3 MED 118 Medical Law and Ethics 2 MED 121 Medical Terminology I 3 MED 122 Medical Terminology II 3 PSG 110 Intro to Polysomnography 4 PSG 111 Neuro/Cardiopulmonary A&P 4 PSG 112 PSG Fundamentals 3 PSG 210 Polysomnography I 7 PSG 211 Polysomnography II 7
CIS 110 Introduction to Computers. 3 ELC 111 Intro to Electricity. 3 MED 118 Medical Law and Ethics. 2 MED 121 Medical Terminology I. 3 MED 122 Medical Terminology II. 3 PSG 110 Intro to Polysomnography. 4 PSG 111 Neuro/Cardiopulmonary A&P. 4 PSG 112 PSG Fundamentals. 3 PSG 210 Polysomnography I. 7 PSG 211 Polysomnography II. 7
ELC 111 Intro to Electricity
MED 118 Medical Law and Ethics 2 MED 121 Medical Terminology I 3 MED 122 Medical Terminology II 3 PSG 110 Intro to Polysomnography 4 PSG 111 Neuro/Cardiopulmonary A&P 4 PSG 112 PSG Fundamentals 3 PSG 210 Polysomnography I 7 PSG 211 Polysomnography II 7
MED 121 Medical Terminology I
MED 122 Medical Terminology II 3 PSG 110 Intro to Polysomnography 4 PSG 111 Neuro/Cardiopulmonary A&P 4 PSG 112 PSG Fundamentals 3 PSG 210 Polysomnography I 7 PSG 211 Polysomnography II 7
PSG 110 Intro to Polysomnography 4 PSG 111 Neuro/Cardiopulmonary A&P 4 PSG 112 PSG Fundamentals 3 PSG 210 Polysomnography I 7 PSG 211 Polysomnography II 7
PSG 112 PSG Fundamentals 3 PSG 210 Polysomnography I 7 PSG 211 Polysomnography II 7
PSG 112 PSG Fundamentals 3 PSG 210 Polysomnography I 7 PSG 211 Polysomnography II 7
PSG 210 Polysomnography I
PSG 211 Polysomnography II
PSG 211 Polysomnography II/
PSG 212 Infant/Pediatric PSG
PSG 213 Case Study/Exam Review 1 PSG 214 PSG Clinical Apps I 1
11
OTHER REQUIRED COURSES:
ACA 111 College Student Success
Total Credit Hours Required66
DEVELOPMENTAL COURSE REQUIREMENTS*
CTS 080 Computing Fundamentals
DRE 098 Integrated Reading Writing III
DMA DMA 010, DMA 020, DMA 030, DMA 040, DMA 0505
*Developmental coursework (including all prerequisites) will be required 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.

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 CO	URSES:	SHC				
*PSG	189	PSG Transition	3				
PSG	210	Polysomnography I	7				
PSG	211	Polysomnography II					
*Credit for course may be earned by successfully completing the							
Polyso	Polysomnography Entrance Test.						

Total Credit Hours Required17

Polysomnography Certificate • C45650 Suggested Seq.							
Summer – 1	st year		00		•		
*PSG 189	PSG Transition		1 1	3	3	3	
		Total	1	3	3	3	
Fall – 1st year	ar						
PSG 210	Polysomnography I		3	2	9	7	
		Total	3	2	9	7	
Spring – 1st	year						
PSG 211	Polysomnography II		2	6	9	7	
	, , ,	Total	2	6	9	7	

Grand Total

		Polysomnograpl	hy • A45670			хb	
		Suggested Program	Sequence D	ay		ÆΕ	
Fall	1st year			Class	Lab	Clin/WkExp	Credit
ACA		College Student Success		1	0	0	1
ELC		Intro to Electricity			0	0	3
ENG		Writing and Inquiry		3 3 3	ő	ŏ	3
MED		Medical Terminology I		3	0	Õ	3
PSG	110	Intro to Polysomnography		3	2	ŏ	4
			Total	13	2	0	14
Spring	g – 1st ye	ar					
CIS	110	Introduction to Computers		2	2	0	3
MAT	143	Quantitataive Literacy		2 2 3 4	2	0	3
MED		Medical Terminology II		3	0	0	3
PSG		Neuro/Cardiopulmonary A&	&Р		0	0	4
PSG	112	PSG Fundamentals		3	0	0	3
			Total	14	4	0	16
	er – 1st <u>y</u>						
MED		Medical Law and Ethics		2	0	0	2 3 3 3
ENG	114	Prof Research & Reporting		3 3 3 3	0	0	3
	OR	ENG 112 Writing/Research		3	0	0	3
	OR	ENG 113 Literature-Based		3	0	0	3
		Humanities/Fine Arts Elect	ive	3	0	0	3
			Total	8	0	0	8
	2nd year			_	_		_
PSG	210	Polysomnography I		3	2	9	7
PSG	214	PSG Clinical Apps I	D1	0	2	0	1
		Social Behavioral/Science I	Elective	3	0	0	3
			Total	6	4	9	11
	y - 2nd y			•		_	_
PSG		Polysomnography II		2	6	9	7
PSG		Infant/Pediatric PSG		3	2	0	4
PSG	213	Case Study/Exam Review		0	3	0	1
			Total	5	11	9	12
		Grand 7		46	23	18	66
TAT 4	C . 1 .	1 DIO 1/3 I					TT (

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

Polysomnography Associate Degree Completion Program (A4567009)

This will be an ongoing program to offer an Associate in Applied Science to individuals who already hold the national registry credential offered by the Board of Registered Polysomnography Technologists (BRPT) and are currently in good standing with the Board at the time of acceptance. Good standing with the BRPT will be a requirement throughout the duration of the program. These individuals will have to meet the following criteria prior to acceptance:

- a. Meet all College requirements regarding basic admission and receipt of prior scholarly transcripts
- b. Provide official documentation of current Basic Life Support certification
- c. Provide a letter from current employer stating they are actively working in the field of Polysomnography for at least one year.

Student services and the Director of Polysomnography Technology will confirm admission requirements have been met prior to acceptance into the program. After being accepted to the program, these individuals will be required to:

- a. Maintain current working status in the field of Polysomnography and provide documentation to the Director of the program as requested
- Adhere to the rules of the Polysomnography Technology program, Catawba Valley Community College, and the BRPT standards of conduct
- c. Complete all required general education requirements of the Polysomnography Technology curriculum
- d. Register and complete PSG 112 Fundamentals and PSG 212 Infant/ Pediatric PSG classes
- e. Students accepted will receive AP credit for the following PSG curriculum classes because competency objectives have been met by possession of current registry status with the Board of Registered Polysomnographic Technologists: PSG 110 Intro to Polysomnography; PSG 111 Neuro/CP A & P; PSG 210 Polysomnography I; PSG 211 Polysomnography II; PSG213 Exam Review/Case Studies; PSG 214 PSG Clinical Apps I.

All classes will be provided in a distant education online format for convenience of these individuals. Grading, transcript evaluation, transfer policies, curriculum and graduation requirements will follow current CVCC policy. Program completion will vary according to progression of required classes for each student accepted.

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.

GENERAL EDUCATION COURSES:

English/Communications:							
ENG 111 Writing and Inquiry							
English	English Elective						
Studen	ts are re	equired to take one (1) course from the following:					
F	ENG 1	112 Writing/Research in the Disc. 3					
. ⊢	∹NGi⊟	113 Liferature-Based Research 3					
		Prof Research & Reporting3					
		ine Arts:					
Electiv	-	3					
		ces/Mathematics:					
BIO	168	Anatomy and Physiology I4					
BIO	169	Anatomy and Physiology II4					
MAT	143	Quantitative Literacy3					
Social/	Behavi	oral Sciences:					
PSY	150	General Psychology3					
MAJO	D COL	incec.					
	110	Rad Intro & Patient Care					
RAD RAD	110						
RAD	111	RAD Procedures I					
	121	RAD Procedures II					
RAD RAD	121	Radiographic Imaging I					
RAD	131	Radiographic Imaging II					
RAD	151	Radiographic Physics I					
RAD	161	RAD Clinical Ed I					
RAD	171	RAD Clinical Ed III					
RAD	211	RAD Procedures III					
RAD	231	Radiographic Physics II					
RAD	241	Radiobiology/Protection 2					
RAD	245	Image Analysis2					
RAD	251	RAD Clinical Ed IV					
RAD	261	RAD Clinical Ed V					
RAD	271	Radiography Capstone					
ICID	2/1	radiography cupstone					
Total (redit l	Hours Required76					
10tai C	J. Cuit	tion s required minimum /0					
DEVE	LOPMI	ENTAL COURSE REQUIREMENTS*					
DRE	098	Integrated Reading Writing III					
DMA	DMA	010, DMA 020, DMA 030, DMA 040, DMA 0505					

Radiography Program • A45700 Suggested Program Sequence Day

	Class	Lab	Clin/WkExp	Credit
Fall – 1st year				-
BIO 168 Anatomy and Physiology I	3	3	0	4
ENG 111 Writing and Inquiry	3	0	0	3
PSY 150 General Psychology	-			3
Total	9	3	0	10
Spring – 1st year				
BIO 169 Anatomy and Physiology II	3	3	0	4
ENG 112 Writing/Research in the Disc (Preferred)	3	0	0	3
OR ENG 113 Literature-Based Research	3	0	0	3
OR ENG 114 Prof Research & Reporting	3	0	0	3
MAT 143 Quantitative Literacy	2	2	0	3
Humanities/Fine Arts Elective	3	0	0	3
Total	11	5	0	13
Fall – 2nd year				
RAD 110 Rad Intro & Patient Care	2	3	0	3
RAD 111 RAD Procedures I	3	3	0	4
RAD 151 RAD Clinical Ed. I	0	0	6	2
Total	5	6	6	9
Spring – 2nd year				
RAD 112 RAD Procedures II	3	3	0	4
RAD 121 Radiographic Imaging I	2	3	0	3
RAD 161 RAD Clinical Ed II	0	0	15	5
Total	5	6	15	12
Summer – 2nd year	5	O	13	12
RAD 131 Radiographic Physics I	1	3	0	2
RAD 122 Radiographic Imaging II	1	3	0	2
RAD 171 RAD Clinical Ed III	0	0	12	4
	2	,		0
Total	2	6	12	8
Fall – 3rd year	_	2	0	2
RAD 211 RAD Procedures III	2	3	0	3 2
RAD 231 Radiographic Physics II RAD 241 Radiobiology/Protection	2	0	0	2
RAD 241 Radiobiology/Protection RAD 251 RAD Clinical Ed IV	0	0	0 21	7
		-		
Total	5	6	21	14
Spring – 3rd year				
RAD 245 Image Analysis	1	3	0	2
RAD 261 RAD Clinical Ed V	0	0	21	7
RAD 271 Radiography Capstone	0	3	0	1
Total	1	6	21	10
Grand Total	38	38	75	76

Note: Students must complete BIO 168, BIO 169, ENG 111, ENG 112 or ENG 113 or ENG 114, MAT 143 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.

SHC

^{*}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.

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.

		EDUCATION COURSES:	SHC
_		nunications:	
ENG		Writing and Inquiry	
ENG	112	Writing/Research in the Disc	
	OR	ENG 113 Literature-Based Research	3
	OR	ENG 114 Prof Research & Reporting	3
Humai	nities/Fi	ne Arts:	
Electiv	/e		3
		ces/Mathematics:	
BIO	168	Anatomy and Physiology I	4
BIO	169	Anatomy and Physiology II	
		oral Sciences:	•
Electiv		oral sciences.	2
Electiv	/6		
MAJO	R COU	RSES:	
BIO	275	Microbiology	4
RCP	110	MicrobiologyIntro to Respiratory Care	4
RCP	111	Therapeutics/Diagnostics	5
RCP	113	RCP Pharmacology	2
RCP	114	C-P Anatomy & Physiology	3
RCP	115	C-P Pathophysiology	2
RCP	122	Special Practice Lab	1
RCP	123	Special Practice Lab	
RCP	145	RCP Clinical Practice II	
RCP	152	RCP Clinical Practice III	2
RCP	210	Critical Care Concepts	4
RCP	211	Adv Monitoring/Procedures	4
RCP	214	Neonatal/Peds ŘC	2
RCP	215	Career Prep-Adv Level RCP Clinical Practice IV	
RCP	236	RCP Clinical Practice IV	6
RCP	246	RCP Clinical Practice V	6
Total (Credit I	Hours Required	72
DEVE	LOPME	ENTAL COURSE REQUIREMENTS*	
DRE	098	Integrated Reading Writing III	
DMA	DMA	010, DMA 020, DMA 030, DMA 040	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.

Respiratory Therapy • A45720 **Suggested Program Sequence Day**

	Suggested 1 rogram	Sequence Da	ıy		d	
					Œ	
			S		Clin/WkExp	ij
Fall 1 at			Class	Lab	Ji.	Crec
Fall – 1st ye RCP 110			•	3	0	4
RCP 110 RCP 113	Intro to Respiratory Care RCP Pharmacology		3 2	0	0	2
RCP 113	Special Practice Lab		0	2	0	1
RCP 114	C-P Anatomy & Physiolo	ισν	3	0	0	3
BIO 168	Anatomy and Physiology		3	3	0	4
ENG 111	Writing and Inquiry	1	3	0	0	3
LING III	writing and inquiry		5	U	U	5
		Total	14	8	0	17
Carina 1st						
Spring – 1st RCP 111	Therapeutics/Diagnostics		4	3	0	5
RCP 111	RCP Clinical Practice II		0	0	15	5
RCP 145			2	0	0	2
BIO 169	C-P Pathophysiology Anatomy and Physiology	П	3	3	0	4
ENG 112	Writing/Research in the I		3	0	0	3
OR	ENG 113 Literature-Base		3	0	0	3
OR OR			3	0	0	3
	ENG 114 Professional W	-	3	U	U	3
(Students an	e recommended to take EN	10 114)				
		Total	12	6	15	19
Summer – 1						
RCP 152	RCP Clinical Practice III		0	0	6	2
RCP 123	Special Practice Lab		0	3	0	1
		Total	0	3	6	3
Fall - 2nd y	ear					
BIO 275	Microbiology		3	3	0	4
RCP 210	Critical Care Concepts		3	3	0	4
RCP 236	RCP Clinical Practice IV		0	0	18	6
RCP 214	Neonatal/Peds RC		1	3	0	2
	Humanities/Fine Arts Ele	ctive	3	0	0	3
		Total	10	9	18	19
Spring – 2nd						
RCP 211	Adv Monitoring/Procedu	res	3	3	0	4
RCP 246	RCP Clinical Practice V		0	0	18	6
RCP 215	Career Prep-Adv Level		0	3	0	1
	Social/Behavioral Science	e Elective	3	0	0	3
		Total	6	6	18	14
		- 0 ****	5	,		• •
		Grand Total	42	32	57	72

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

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: unications:	SHC
	111		3
		ral Sciences:	5
PSY		General Psychology	3
MAJO	R COU	RSES:	
BIO	163	Basic Anat & Physiology	5
BIO	175	General Microbiology	3
SUR	110	Intro to Surg Tech	
SUR	111	Periop Patient Care	7
SUR	122	Surgical Procedures I	6
SUR	123	SUR Clinical Practice I	7
SUR	134	Surgical Procedures II	5
SUR	135	SUR Clinical Practice II	
SUR	137	Prof Success Prep	1
OTHE	R REQU	TRED COURSES:	
ACA	111	College Student Success	1
Total (Credit H	ours Required	48
DEVE	LOPMEN	NTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	3
DMA	DMA 0	10, DMA 020, DMA 030, DMA 040	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.

Surgical Technology • (D45740) Suggested Program Sequence Day

Call 1st com	Class	Lab	Clin/WkEx	Credit
Fall – 1st year	2	•	0	2
ENG 111 Writing and Inquiry	3	0	0	3
ACA 111 College Student Success	I	0	0	1
BIO 163 Basic Anat & Physiology	4	2	0	5
SUR 110 Intro to Surg Tech	4 3 5	0	0	1 5 3 7
SUR 111 Periop Patient Care	5	6	0	7
Total	16	8	0	19
Spring – 1st year				
PSY 150 General Psychology	2	2	0	3
PSY 150 General Psychology	2 3 5 0	2 0 3	0	3 6 7
SUR 122 Surgical Procedures I	5	3	0	6
SUR 123 SUR Clinical Practice I	0	0	21	7
Total	10	5	21	19
Summer – 1st year				
SUR 135 SUR Clinical Practice II	0	0	12	4
SUR 134 Surgical Procedures II	0 5 1	0	0	4 5 1
SUR 137 Prof Success Prep	1	0	0	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 a 2 + 2 Articulation Agreement with NC Agricultural and Technological State University in Horticulture. CVCC has a 2+2 Online Articulation Agreement with Pennsylvania State University for the B.S. Degree in Turfgrass Management.

The Turfgrass Management Technology curriculum is designed to provide skills necessary to perform duties related to management of golf courses, sports fields, lawn care, irrigation design, and sod production. Coursework includes turfgrass management, irrigation, ornamental horticulture, soil science, entomology, plant pathology, as well as courses in communications, computers, and the social sciences. Graduates should qualify for employment at golf courses, local, state, and national parks, sports complexes, highway vegetation, and turf maintenance companies. Graduates should also be prepared to take the North Carolina Pesticide Applicator's examination.

GENI	ERAL E	DUCATION COURSES: SHC
Englis	h/Comm	unications:
ENG	111	Writing and Inquiry
ENG	114	Prof Research & Reporting
Livo	OR	ENG 112 Writing/Research in the Disc
	OR	ENG 113 Literature-Based Research 3
Humai	nities/Fir	
Electiv		3
Natura	l Science	es/Mathematics:
	110	Math Measurement & Literacy
	OR	MAT 143 Quantitive Literacy
Social		ral Sciences:
Electiv		3
	R COUI	RSES:
HOR	162	Applied Plant Science3
HOR	166	Soils & Fertilizers
TRF	110	Intro Turfgrass Cult & ID
TRF TRF	120 125	Turfgrass Irrigat & Design
TRF	130	Native Flora ID
TRF	140	Turfgrass Mgmt Safety
TRF	150	Landscape Drafting
TRF	151	Intro Landscape Design
TRF	152	Landscape Maintenance
TRF TRF	210 220	Turfgrass Eqmt Mgmt
TRF	230	Turfgrass Calculations 2 Turfgrass Mgmt Apps 2
TRF	240	Turfgrass Pest Control 3
TRF	250	Golf/Sport Field Const4
TRF	260	Adv Turfgrass Mgmt4
WBL	XXX	Work-Based Learning5
ОТНЕ	R REOI	JIRED COURSES:
SPA	120	Spanish for the Workplace
7F (1)	G 11. 11	
Total	Credit H	ours Required70
DEVE	LOPME	NTAL COURSE REQUIREMENTS*
DRE		Integrated Reading Writing III
		010, DMA 020, DMA 030, (MAT 110)
DMA	DMA (10, DMA 020, DMA 030, DMA 040, DMA 050 (MAT 143)5
*Deve	lonmental	coursework (including all prerequisites) will be required 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.

Turfgrass	Management	Technology •	A15420

		Suggested Program Sequence Da	y		ф	
					ĶΕx	
			SSI	2	n/W	Credit
Fall –	1st y	ear	Class	Lab	CE	Ç
ENG	111	Writing and Inquiry	3	0	0	3
MAT	110	Math Measurement & Literacy	2	2	0	3
	OR	MAT 143 Quantitative Literacy	2	2	0	3
TRF	110	Intro to Turfgrass Cult & ID	3	2	0	4
HOR	166	Soils & Fertilizers	2	2	0	3
TRF	150	Landscape Drafting	1	3	0	2
HOR	162	Applied Plant Science	2	2	0	3
		m				
. .		Total	13	11	0	18
Spring			•	^	_	•
TRF		Turfgrass Calculations	2	0	0	2
TRF		Turfgrass Eqmt Mgmt	1	4	0	3
		Turfgrass Irrigat & Design	2	4	0	4
ENG		Prof Research & Reporting (Preferred)	3	0	0	3
		ENG 112 Writing/Research in the Disc	3	0	0	3
TD D	-	ENG 113 Literature-Based Research	3	0	0	3
TRF	151	Intro Landscape Design	2	2	0	3
		Total	10	10	0	15
Summ	ner – 1	1st year				10
		K Work-Based Learning	0	0	20	2
		-	0	^	20	2
E-11	24	Total	0	0	20	2
Fall – TRF	-		2	2	0	2
TRF	240 140	8	2 2	2	0	3
TRF	125	8 8	1	3	0	2
TRF	130		1	3	0	2
TRF	150		2	2	0	3
		Landscape Maintenance K Work-Based Learning	0	0	10	<i>3</i>
WBL	ΛΛΛ	Humanities/Fine Arts Elective	3	0	0	3
		Tumamues/Time Arts Elective	3	U	U	3
		Total	11	12	10	17
Spring	g-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
WBL	XXX	Work-Based Learning	0	0	20	2
SPA	120	Spanish for the Workplace	3	0	0	3
		Social/Behavioral Science Elective	3	0	0	3
		Total	12	8	20	18
		Grand Total	46	41	50	70
		Grand Tour			- 0	, 3

TURFGRASS MANAGEMENT TECHNOLOGY Diploma Program (D15420)

Diploma Program (D15420)							
GENERAL EDUCATION COURSE	S:				SHC		
ENG 111 Writing amd Inquiry.					3		
MAT 110 Math Measurement & OR MAT 143 Quantitativ							
	e Literacy		•••••	•••••			
MAJOR COURSES:					2		
HOR 166 Soils & Fertilizers TRF 110 Intro Turfgrass Cult &							
TRF 120 Turfgrass Irrigat & D							
TRF 130 Native Flora ID							
TRF 140 Turfgrass Mgmt Safe							
TRF 151 Intro Landscape Desi	gn				3		
TRF 210 Turfgrass Eqmt Mgm TRF 220 Turfgrass Calculation	t		•••••	•••••	3		
TRF 240 Turfgrass Pest Control							
TRF 250 Golf/Sport Field Con							
WBL XXX Work-Based Learning	3				4		
Total Credit Hours Required					41		
DEVELOPMENTAL COURSE REQU							
DRE 098 Integrated Reading Wr	iting III				3		
MAT DMA 010, DMA 020, DMA 030 MAT DMA 010, DMA 020, DMA 030							
MAI DMA 010, DMA 020, DMA 030	, DMA 040, DMA	050, (MAI	143)3		
*Developmental coursework (includin students whose placement test scores in the areas of reading, English, mathema Course Descriptions section for prereq	ndicate a need fo atics, and compu	r great ters. P	er pr lease	ofici	ency in		
Fall – 1st year							
ENG 111 Writing and Inquiry		3	0	0	3		
MAT 110 Math Measurement &		3 2 2 2 3	2 2 2 2	0	3		
OR MAT 143 Quantitative HOR 166 Soils & Fertilizers	Literacy	2	2	$0 \\ 0$	3		
TRF 110 Intro to Turfgrass Cult	& ID	3	$\frac{2}{2}$	0	4		
TRF 130 Native Flora ID	i cc iD	1	3	0	2		
TRF 140 Turfgrass Mgmt Safet	y	2	2	0	3		
TRF 240 Turfgrass Pest Contro	ĺ	2	2	0	3		
	Total	15	13	0	21		
Spring – 1st year							
TRF 120 Turfgrass Irrigat & De		2 2	4	0	4		
TRF 151 Intro Landscape Desig TRF 210 Turfgrass Eqmt Mgmt		1	2	$0 \\ 0$	3		
TRF 220 Turfgrass Calculations			0	0	2		
TRF 250 Golf/Sport Field Cons	t	2 2	4	ŏ	4		
WBL XXX Work-Based Learning		0	0	20	2		
_	Total	9	14	20	18		
Summer – 1st year							
WBL XXX Work-Based Learning			0				
	Total	0	0	20	2		
G	rand Total	24	27	40	41		
TURFGRASS MANAG	EMENT TE	CHN	OI	OG	2V		
Certificate Pr							
MAJOR COURSES:	3 (-	,	•		SHC		
TRF 110 Intro Turfgrass Cult &	ID						
TRF 120 Turfgrass Irrigat & Des	sign				4		
TRF 140 Turfgrass Mgmt Safety TRF 220 Turfgrass Calculations							
TRF 240 Turfgrass Calculations TRF 240 Turfgrass Pest Control							
Total Credit Hours Required							
-							
Fall – 1st year	0 ID		2	,	2 4		
TRF 110 Intro to Turfgrass Cult			3	2 () 4		
TRF 140 Turfgrass Mgmt Safet TRF 240 Turfgrass Pest Control			3 : 2 : 2 :		0 3		
_	Total		7		0 10		
Spring – 1st year	- 5 ****			•	•		

Spring – 1st year TRF 120 Turfgrass Irrigat & Design TRF 220 Turfgrass Calculations

2 4 0 4 2 0 0 2 4 4 0 6

11 10 0 16

Total

Grand Total

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. Coursework 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.

SHC

GENERAL EDUCATION COURSES:

GENE	ERAL EI	DUCATION COURSES: SHC				
Englisl	n/Commu	inications:				
ENG	111	Writing and Inquiry				
ENG	114	Prof Research & Reporting				
LIVO	OR	ENG 113 Literature-Based Research 3				
	OK	ENG 113 Literature-Based Research				
Humar	nities/Fine	e Arts:				
Electiv	re	3				
Moturo	1 Caianaa	s/Mathematics:				
	143	Quantitative Literacy				
MAT	143	Quantitative Literacy				
Social/	Behavior	al Sciences:				
Electiv	re	3				
MAIO	D COUD	OEG.				
	R COUR					
CIS	110	Introduction to Computers				
CIS CTS	115 115	Intro to Prog & Logic				
DBA	110	Info Sys Business Concept				
NET	125	Networking Basics 3				
NOS	110	Operating Systems Concepts				
SEC	110	Security Concepts				
WEB	110	Internet/Web Fundamentals 3				
WEB	115	Web Markup and Scripting				
WEB	120	Intro Internet Multimedia				
WEB	140	Web Development Tools				
WEB	210	Web Design 3				
WEB	230	Implementing Web Serv				
WEB	250	Database Driven Websites 3				
WEB WBL	289 XXX	Internet Technologies Project 3 Work-Based Learning 2				
WEB	Students a BUS 230 CSC 151 MKT 120 MKT 223 SGD 111 SGD 112 WEB 180 WEB 180 WEB 260 Technologents are re	JAVA Programming				
WEB		Advanced Multimedia				
WEB		Internet Security				
		Ţ.				
OTHE ACA	111	IRED COURSES: College Student Success1				
	Total Credit Hours Required69					
DEVE	LOPMEN	NTAL COURSE REQUIREMENTS*				
CTS	080	Computing Fundamentals				
DRE	098	Integrated Reading Writing III				
DMA	DMA 0	10, DMA 020, DMA 030, 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.

Web Technologies • A25290 Suggested Program Sequence Day

Fall – 1st yea	ar	Class	Lab	Clin/WkExp	Credit
ACA 111	College Student Success	1	0	0	1
CIS 110	Introduction to Computers	2	2	0	3
CIS 115	Intro to Prog & Logic	2	3	0	3
DBA 110	Database Concepts	2	3	0	3
WEB 110	Internet/Web Fundamentals	2	2	0	3
		2	2	0	3
MAT 143	Quantitative Literacy	2	2	U	3
	Total	11	12	0	16
Spring – 1st	year				
WEB 140	Web Development Tools	2	2	0	3
CTS 115	Info Sys Business Concepts	3	0	0	3
ENG 111	Writing and Inquiry	3	0	0	3
NET 125	Networking Basics	1	4	0	3
WEB 120	Intro Internet Multimedia	2	2	0	3
WEB 120	WEB Technology Program Elective	_	_	Ü	3
	Total	11	8	0	18
Summer – 1s	st vear				
ENG 114		3	0	0	3
OR	Prof Research & Reporting ENG 113 Literature-Based Research	3	0		3
OK		3		0	3
	Humanities/Fine Arts Elective	3	0	0	3
	Total	6	0	0	6
Fall – 2nd ye	ear				
SEC 110	Security Concepts	2	2	0	3
WEB 250	Database Driven Websites	2	2	0	3
WEB 115	Web Markup and Scripting	2	2	0	3
WEB 230	Implementing Web Serv	2	2	0	3
WEB 230	WEB Technology Program Elective	_	_	U	3
					-
	Total	8	8	0	15
Spring – 2nd	l vear				
WEB 210	Web Design	2	2	0	3
WEB 289	Internet Technologies Project	1	4	0	3
NOS 110	Operating Systems Concepts	2	3	0	3
WBL XXX		0	0) 2
	E				
Socia	l/Behavioral Science Elective	3	0	0	3
	Total	8	9	20	14
	Grand Total	44	37	20	69

WEB TECHNOLOGIES

Basic Web Developer • Certificate Program (C25290)

MAJO	R CO	URSES:	SHC		
CSC	151	JAVA Programming	3		
WEB	110	Internet/Web Fundamentals	3		
WEB	120	Intro Internet Multimedia	3		
WEB	140	Web Development Tools	3		
Total Credit Hours Required12					

Basic Web Developer Certificate • C25290 Suggested Sequence

Fall – 1st ye	ear		Class	Lab	Clin/WkExp	Credit
CSC 151	JAVA Programming		2	3	0	3
	Internet/Web Fundamental	s		2		3
		Total	4	5	0	6
Spring – 1s	t year					
WEB 140	Web Development Tools		2	2	0	3
WEB 120	Intro Internet Multimedia		2	2	0	3
		Total	4	4	0	6
		Grand Total	8	9	0	12

WEB TECHNOLOGIES Webmaster • Certificate Program (C2529001)

MAJO	OR CO	OURSES:	SHC
CTS	115	Info Sys Business Concepts	3
SEC	110	Security Concepts	3
WEB	115	Web Markup and Scripting	3
WEB	210	Web Design	3
Total (Credit	Hours Required	12

Web Technologies • Webmaster Certificate • C2529001 Suggested Sequence

	110	ear Security Concepts Web Markup and Scripting	2		2 2		3 Credit
			Total	4	4	0	6
Spring	$g-1s^{2}$	t year					
CTS	115	Info Sys Business Concept	ts	3	0	0	3
WEB	210	Web Design		2	2	0	3
			Total	5	2	0	6
			Grand Total	9	6	0	12

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 full-time 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 non-consumable electrode welding and cutting processes. Courses in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provide 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.

GENE	RAL EI	DUCATION COURSES: SHC
English	/Commu	nications:
ENG	102	Applied Communications II
	OR	ENG 111 Writing and Inquiry
Natural	Science	s/Mathematics:
MAT	110	Math Measurement & Literacy
	OR	MAT 121 Quantitative Literacy
MAJO	R COUR	SFS:
WLD	110	Cutting Processes
WLD	115	SMAW (Stick) Plate5
OR		
WLD	115AB	SMAW (Stick) Plate-AB3
WLD	115BB	SMAW (Stick) Plate-BB
WLD	116	SMAW (Stick) Plate/Pipe4
OR	11 (A D	CMAW(G(: 1) DL (/D: AD
WLD WLD	116AB 116BB	SMAW (Stick) Plate/Pipe-AB
WLD WLD	121 131	GMAW (MIG) FCAW/Plate
WLD	141	GTAW (TIG) Plate
WLD	143	Welding Metallurgy
WLD	215	SMAW (Stick) Pipe4
OR	213	51411W (Stick) Tipe
WLD	215AB	SMAW (Stick) Pipe-AB2
WLD	215BB	SMAW (Stick) Pipe-BB
WLD	261	Certification Practices
WLD	262	Inspection & Testing
WBL	110	World of Work 1
Total (Credit Ho	ours Required40
		VTAL COURSE REQUIREMENTS*
DRE		tegrated Reading Writing II
DMA		10, DMA 020, DMA 030 (MAT 110)
DMA		10, DMA 020, DMA 030, DMA 040, DMA 050 DMA 060,
	`	21)6
*Devel	opmenta	coursework (including all prerequisites) will be required 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.

Welding Technology Diploma • D50420 Suggested Program Sequence Day/Evening

Suggested Hogram Sequence Day/Evening						
Eall 1st years		Class	Lab	Clin/WkExp	Credit	
Fall – 1st year WLD 110 WLD 115AB WLD 115BB WLD 143 WLD 262	Cutting Processes SMAW (Stick) Plate-AB SMAW (Stick) Plate-BB Welding Metallurgy Inspection & Testing	1 2 0 1 2	3 4 5 2 2	0 0 0 0	2 3 2 2 3	
	Total	6	16	0	12	
Spring – 1st y WLD 116AB WLD 116BB WLD 121 WLD 141	ear SMAW (Stick) Plate/Pipe-AB SMAW (Stick) Plate/Pipe-BB GMAW (MIG) FCAW/Plate Symbols & Specifications Total	1 0 2 2 5	4 5 6 2	0 0 0 0	2 2 4 3	
	10441	5	1,	Ü	11	
Summer – 1st ENG 102 OR MAT 110 OR	year Applied Communications II ENG 111 Writing and Inquiry Math Measurement & Literacy MAT 143 Quantitative Literacy Total	3 3 2 2 5	0 0 2 2 2	0 0 0 0 0	3 3 3 6	
Fall – 2nd yea WBL 110 WLD 131 WLD 215AB WLD 215BB WLD 261	World of Work GTAW (TIG) Plate SMAW (Stick) Pipe-AB	1 2 1 0 1	0 6 4 5 3	0 0 0 0 0	1 4 2 2 2 2	
	Total Grand Total	5 21	18 53	0	11 40	

WELDING TECHNOLOGY Certificate Program (C50420)

MAJOR COUR	SES:	SHC		
WLD 110	Cutting Processes	2		
WLD 115 OR	SMAW (Stick) Plate	5		
WLD 115AB	SMAW (Stick) Plate-AB	3		
	SMAW (Stick) Plate-BB			
WLD 121	GMAW (MIG) FCAW/Plate	4		
WLD 131	GTAW (TIG) Plate	4		
WLD 141	Symbols & Specifications			
Total Credit Hours Required1				

Welding Technology Certificate • C50420 Suggested Sequence

Fall – 1st year					
WLD 110	Cutting Processes	1	3	0	2
WLD 115AB	SMAW (Stick) Plate-AB	2	4	0	3
WLD 115BB	SMAW (Stick) Plate-BB	0	5	0	2
	Total	3	12	0	7
Spring - 1st ye	ear				
ŴLD 121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD 131	GTAW (TIG) Plate	2	6	0	4
WLD 141	Symbols & Specifications	2	2	0	3
	Total	6	14	0	11
	Grand Total	9	26	0	18

SPECIAL PROGRAMS

Associate in Applied Science Degree Curricula:

- Cyber Crime Technology
- Funeral Service Education

Diploma Curriculum:

• NC Funeral Director

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.

CYBER CRIME TECHNOLOGY

A.A.S. Program (A55210) Collaborative Program Catawba Valley Community College/ Stanly Community College

Cyber Crime Technology A.A.S. Program (A55210) Collaborative Program Catawba Valley Community College/ Stanly Community College. Cyber Crime Technology is an associate degree program offered in conjunction with Stanly Community College. For details, please contact Sherry Herman at extension 4050. 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.

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 Favetteville 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 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 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.

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 seamless 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:

- 1. College Transfer Pathway leading to a minimum of 30 hours of college transfer credit.
- 2. A Career and Technical Education Pathway leading to a certificate, diploma or degree.
- 3. A Cooperative Innovative High School Pathway approved under Part 9 of Article 16 of Chapter 115D of the General Statutes.

College Transfer Pathway

- 1. The Career and College Promise College Transfer Pathway requires the completion of at least thirty semester hours of transfer courses, including English and mathematics, and ACA 122 College Transfer Success.
- 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 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 mathematics 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.
 - c. a student who falls below a 2.0 GPA after completing two college courses will be subject to the college's policy for satisfactory academic progress.
- 5. A student must enroll in one 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 administrator.
- 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 College Transfer Pathway while still enrolled in high school may continue to earn college transfer credits leading to the completion of the Associate in Arts or Associate in Science.
- 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 College Transfer Pathway program of study and up to two (2) Career Technical Education program of study (for a total of three (3).

Career Technical Education Pathway

- 1. The Career and College Promise Career Technical Education Pathway for juniors and seniors 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.
 - c. a student who falls below a 2.0 GPA after completing two college courses will be subject to the college's policy for satisfactory academic progress.
- 6. A student may enroll in two programs of study but 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. A student may concurrently enroll in two CTE programs of study provided the exception has been approved by the college's Chief Academic Officer or his/her designee.

CAREER & COLLEGE PROMISE COLLEGE TRANSFER PATHWAY Leading to the Associate in Arts (P1012C)

The CCP College Transfer Pathway Leading to the Associate in Arts is designed for high school juniors and seniors who wish to begin study toward the Associate in Arts degree and a baccalaureate degree in a non-STEM major.

GENERAL EDUCATION (31/32 SHC	GENERAL EDUCATION	((31.	/32	SH	(C)
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The general education requirement includes study in courses selected from the Universal General Education Transfer Component (UGETC) component of the Comprehensive Articulation Agreement.

English Comment	:4:	(C CHC)		
English Composition (6 SHC) The following two English composition courses are required.				
ENG 111	Writing & Inquiry	2		
ENG 111 ENG 112	Writing & riquity			
Select three course	s from the following from at least two different discipl	ines (9 SHC)		
Communication				
COM 231	Public Speaking	3		
Humanities/Fine				
ART 111	Art Appreciation			
ART 114	Art History Survey I			
ART 115	Art History Survey II	3		
ENG 231	American Literature I	3		
ENG 232	American Literature II	3		
MUS 110	Music Appreciation	3		
MUS 112	Introduction to Jazz	3		
PHI 215	Philosophical Issues	3		
PHI 240	Introduction to Ethics	3		
Social/Behaviora	al Sciences	(9 SHC)		
Select three cour	ses from the following from at least two different	disciplines:		
ECO 251	Principles of Microeconomics			
ECO 252	Principles of Macroeconomics			
HIS 111	World Civilizations I			
HIS 112	World Civilizations II	3		
HIS 131	American History I			
HIS 132	American History II			
POL 120	American Government	3		
PSY 150	General Psychology			
SOC 210	Introduction to Sociology	3		
Math		(3/4 SHC)		
Select one course	e from the following:	(0, 1, 2110)		
MAT 143	Quantitative Literacy	3		
MAT 152	Statistical Methods I			
MAT 171	Precalculus Algebra			
Natural Sciences		(4 SHC)		
Select 4 SHC fro	om the following course(s):	()		
AST 151	General Astronomy I	3		
and	AST 151A General Astronomy Lab I			
BIO 111	General Biology I			
CHM 151	General Chemistry I			
GEL 111	Introductory Geology			
PHY 110	Conceptual Physics	3		
and	PHY 110A Conceptual Physics Lab	1		
	tion	(1 SHC)		
	g course is required:			
ACA 122	College Transfer Success	(1 SHC)		
Total Semester	r Hours Credit (SHC) in Pathway	32/33		

Optional General Education Hours (0-8 SHC)

A student may take up to 8 SHC of foreign language courses and accompanying labs, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of C or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

111/CHI 1814
112/CHI 1824
111/FRE 1814
112/FRE 1824
111/SPA 1814
112/SPA 1824

Total Semester Hours Credit (SHC) in Pathway:32 – 41*

High school students in the CCP College Transfer Pathway leading to the Associate in Arts must complete the entire pathway before taking additional courses in the Associate in Arts degree.

CAREER & COLLEGE PROMISE COLLEGE TRANSFER PATHWAY Leading to the Associate in Science (P1042C)

The CCP College Transfer Pathway Leading to the Associate in Science is designed for high school juniors and seniors who wish to begin study toward the Associate in Science degree and a baccalaureate degree in a STEM or technical major.

technical major.		
GENERAL EDI	JCATION	(34 SHC)
	cation requirement includes study in courses selec	
the Universal G	eneral Education Transfer Component (UGETC).	
English Compos	sition	(6 SHC)
The following to	wo English composition courses are required.	, ,
ENG 111	Writing & Inquiry	3
ENG 112	Writing/Research in the Disciplines	3
Select two course	s from the following from at least two different discipling	nes (6 SHC)
Communication	S	
COM 231	Public Speaking	3
Humanities/Fine		
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	3
ENG 231	American Literature I	
ENG 232	American Literature II	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	3
Social/Behavior		(6 SHC)
Select two cours	ses from the following from at least two different	disciplines:
ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
HIS 111	World Civilizations I	
HIS 112	World Civilizations II	3
HIS 131	American History I	3
HIS 132	American History II	3
POL 120	American Government	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3
Math		(8 SHC)
Select two cours	ses from the following:	
MAT 171	Precalculus Algebra	4
MAT 172	Pre-calculus Trigonometry	4
MAT 263	Brief Calculus	
MAT 271	Calculus I	
Natural Science		(8 SHC)
	om the following course(s):	
AST 151	General Astronomy I	
and	AST 151A General Astronomy Lab I	1
BIO 111	General Biology I	4
and	BIO 112 General Biology II	
CHM 151	General Chemistry I	4
and	CHM 152 General Chemistry II	
GEL 111	Introductory Geology	
PHY 110	Conceptual Physics	3
and	PHY 110A Conceptual Physics Lab	
PHY 151	College Physics I	
and	PHY 152 College Physics II	4
PHY 251	General Physics I	
and	PHY 252 General Physics II	
Academic Trans		(1SHC)
The following	ng course is required:	
ACA 122	College Transfer Success	1
Total Semester	Hours Credit (SHC) in Pathway	35
	Optional General Education Hours (0-8 SHC)	
	ke up to 8 SHC of foreign language courses and ac	
a concent may to	KE III IO X NHU OI IOTEION IANOIIAGE COIITSES AND AC	companyin

A student may take up to 8 SHC of foreign language courses and accompanying labs, in a single language, designated as General Education in the CAA as a part of this pathway. These courses are not a part of the Universal General Education Transfer Component. Students who complete these courses with a grade of C or better will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

Chinese	111/CHI 181	4
Chinese	112/CHI 182	4
French	111/FRE 181	4
French	112/FRE 182	4
Spanish	111/SPA 181	4
Spanish	112/SPA 182	4
1		

Total Semester Hours Credit (SHC) in Pathway:35 - 43*

High school students in the CCP College Transfer Pathway Leading to the Associate in Science must complete the entire pathway before taking additional courses in the Associate in Science degree.

CAREER TECHNICAL EDUCATION PATHWAY

Advertising and Graphic Design • Pathway (C30100P)

CORE COURSES (12 SHC):			SHC	
GRA	151	Computer Graphics I	2	
GRA	152	Computer Graphics II	2	
GRD	110	Typography I	3	
GRD	121	Drawing Fundamentals I	2	
GRD	141	Graphic Design I	4	
GRD	142	Graphic Design II	4	
Total Credit Hours Required				

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

GENE	RAL E	EDUCATION COURSES (6 SHC)	SHC		
ENG	102	Applied Communications II	3		
MAT	110	Mathematical Measurement and Literacy	3		
CORE	COU	RSES (20 SHC)			
AHR	110	Intro to Refrigeration	5		
AHR	111	HVACR Electricity	3		
AHR	112	Heating Technology	4		
AHR	113	Comfort Cooling	4		
AHR	114	Heat Pump Technology			
OTHE	R MA.	JOR COURSES (10 SHC)			
AHR	130	HVAC Controls	3		
AHR	160	Refrigerant Certification	1		
AHR	180	HVACR Customer Relations	1		
AHR	210	Residential Building Code	2		
AHR	211	Residential System Design	3		
Total C	redit I	Hours Required	36		
DEVELOPMENTAL COURSE REQUIREMENTS*					
CTS		Computing Fundamentals	3		
DRE		Integrated Reading Writing II			
DMA		A 010, 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.

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

CORE	COUR	RSES (17 SHC)	SHC
AHR	110	Intro to Refrigeration	5
AHR	112	Heating Technology	4
AHR	113	Comfort Cooling	4
AHR	114	Heat Pump Technology	4
Total Credit Hours Required			17
DEVE	ОРМ	ENTAL COURSE REQUIREMENTS*	
CTS		Computing Fundamentals	2
		1 0	
DRE	097	Integrated Reading Writing II	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.

Automotive Systems Technology Pathway (D60160P)

		, , , , ,	,
GENE	RAL ED	UCATION COURSES (6 SHC)	SHC
Englisl	h/Comm	unication:	
ENG	111	Writing and Inquiry	3
Natura	l Science	e/Mathematics:	
MAT	110	Mathematical Measurement and Literacy	3
CORE	COURS	ES (18 SHC)	
AUT	141	Suspension & Steering Sys	3
AUT	151	Brake Systems	
AUT	181	Engine Performance 1	3
TRN	110	Intro to Transport Tech	
TRN	120	Basic Trasp Electricity	
TRN	140	Transp Climate Control	2
OTHE	R MAJO	OR COURSES (21 SHC)	
AUT	141A	Suspension & Steering Lab	1
AUT	151A	Brake Systems Lab	
AUT	116	Engine Repair	
AUT	116A	Engine Repair Lab	
AUT	163	Adv Auto Electricity	
AUT	181A	Engine Performance 1 Lab	
AUT	183	Engine Performance 2	4
AUT	221	Auto Transm/Transaxles	
AUT	221A	Auto Transm/Transax Lab	
AUT	231	Man Trans/Axles/Drtrains	3
		TIRED COURSES (3 SHC)	
AUT	231A		
TRN	140A	Transp Climate Cont Lab	2
Total C	Credit Ho	ours Required	48
DEVE	LOPME	NTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	
DMA		10, DMA 020, DMA 030	
DIVITA	D1111110	10, 21111 020, 21111 000	

*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 Pathway (C60160P)

CORE	CORE COURSES (13 SHC)					
AUT	141	Suspension & Steering Sys				
AUT	151	Brake Systems3				
TRN	110	Intro to Transport Tech				
TRN	120	Basic Trasp Electricity5				
OTHE	OTHER MAJOR COURSES (2 SHC)					
AUT	141A	Suspension & Steering Lab1				
AUT	151A	Brake Systems Lab1				
Total C	redit Ho	urs Required15				
DEVE	DEVELOPMENTAL COURSE REQUIREMENTS*					
CTS	080	Computing Fundamentals				
DRE	097	Integrated Reading Writing II3				
DMA	DMA 0	10, DMA 020, DMA 0303				

*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 Pathway (D50210P)

GENERAL EDUCATION COURSES (6 SHC)					
ENG	111	Writing and Inquiry	3		
MAT	121	Algebra/Trigonometry I	3		
CORE C	OURSI	ES (12 SHC)			
MAC	122	CNC Turning	2		
MAC	124	CNC Milling	2		
MAC	131	Blueprint Reading/Mach I	2		
MAC	141	Machining Applications I	4		
MAC	142	Machining Applications II	4		
MEC	110	Intro to CAD/CAM	2		
OTHER	MAJOI	R COURSES (18 SHC)			
MAC	132	Blueprint Reading/Mach II	2		
MAC	151	Machining Calculations	2		
MAC	222	Advanced CNC Turning	2		
MAC	224	Advanced CNC Milling	2		
MAC	231	CAM: CNC Turning			
MAC	232	CAM: CNC Milling			
OTHER	REQUI	IRED COURSES (2 SHC)			
CIS	111	Basic PC Literacy	2		
Total Cre	Total Credit Hours Required				
DEVELOPMENTAL COURSE REQUIREMENTS*					
	080	Computing Fundamentals	3		
DRE 0	98	Integrated Reading Writing III	3		
DMA D	OMA 010	0, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060	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.

Computer-Integrated Machining Technology Pathway (C50210P)

CORE	COURS	SES (12 SHC)	
MAC	131	Blueprint Reading/Mach. I	2
MAC	141	Machining Applications I	4
MAC	142	Machining Applications II	
MEC	110	Intro to CAD/CAM	
OTHE		DR COURSES (6 SHC)	
MAC	122	CNC Turning	2
MAC	124	CNC Milling	2
MAC	151	Machining Calculations	2
Total C	redit Ho	ours Required	18
DEVE	LOPME	NTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	097		
DMA	DMA 0	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.

Cosmetology • Pathway (D55140P)

		cosmetology 1 will way (Decilor)
GENI	ERAL EDU	CATION COURSES (6 SHC) SHC
ENG	102	Applied Communications II
PSY	150	General Psychology3
	E COURSE	S (32 SHC)
COS	111 OR	Cosmetology Concepts I4
COS COS	111AB 111BB	Cosmetology Concepts I-AB
COS	112 OR	Salon I8
COS	112AB	Salon I-AB4
COS	112BB	Salon I-BB4
COS	113	Cosmetology Concepts II4
COS	OR 113AB	Cosmetology Concepts II-AB2
COS	113AB	Cosmetology Concepts II-AB 2 Cosmetology Concepts II-BB 2
COS	114	Salon II8
COS	OR 114AB	Salon II-AB4
COS	114AB	Salon II-AB 4
200	11.5	C +1 C + W
COS	115 OR	Cosmetology Concepts III
COS	115AB	Cosmetology Concepts III-AB2
COS	115BB	Cosmetology Concepts III-BB
COS	116 OR	Salon III
COS	116AB	Salon III-AB2
COS	116BB	Salon III-BB2
ОТНІ	ER MAIOR	COURSES (9 SHC)
COS	117	Cosmetology Concepts IV2
COB	OR	Cosmictology Concepts 172
COS	117AB	Cosmetology Concepts IV-AB1
COS	117BB	Cosmetology Concepts IV-BB1
COS	118	Salon IV7
		rs Required47
DEVI	ELOPMEN'	TAL COURSE REQUIREMENTS*
DRE	098	Integrated Reading Writing III

^{*}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 Law Enforcement Pathway (C55180P)

CORE	COURS	SES (12 SHC)	SHC
CJC	111	Intro to Criminal Justice	3
CJC	113	Juvenile Justice	3
CJC	131	Criminal Law	3
CJC	212	Ethics & Comm Relations	3
OTHE	R REQU	UIRED COURSES (3 SHC)	
CJC	121	Law Enforcement Operations	3
Total C	redit H	ours Required	15

Criminal Justice Technology-Latent Evidence Concentration Crime Scene Pathway (C5518AP)

S (16 SHC)	SHC
Intro to Criminal Justice	3
Crime Scene Processing	3
Trace Evidence	3
Investigative Principles	4
Friction Ridge Analysis	3
RED COURSES (2 SHC)	
Investigative Photography	2
rs Required	18
I	Intro to Criminal Justice

Electi	ical Systems Technology Pathway (C35130	P1)		Ho	orticulture Technology Pathway (C152	40P2)
CORE COURS	ES (13 SHC)		CORE (COURS	SES (12 SHC)	SHC
ELC 112	DC/AC Electricity		HOR	112	Landscape Design I	
ELC 113	Basic Wiring I		HOR	160	Plant Materials I	
ELC 117	Motors and Controls		HOR	164	Hort Pest Management	
	R COURSES (4 SHC)		HOR	166	Soils & Fertilizers	
BPR 111 ELC 118	Blueprint Reading	2			OR COURSES (3SHC)	
			HOR	170	Hort Computer Apps	
Total Credit Ho	urs Required	17	Total Cr	edit Ho	ours Required	14
Electr	ical Systems Technology Pathway (C35130	P2)			orticulture Technology Pathway (C152	*
CORE COURS	•	CITC (SES (12 SHC)	SHC
ELC 112	DC/AC Electricity	5	HOR	112	Landscape Design I	3
ELC 113	Basic Wiring I	4	HOR HOR	160 164	Plant Materials I Hort Pest Management	
ELC 117	Motors and Controls	4	HOR	168	Plant Propagation	
	R COURSES (4 SHC)				OR COURSES (3SHC)	
ELC 115	Industrial Wiring		HOR	110	Intro to Landscaping	2
Total Credit Ho	urs Required	17			ours Required	
	Protection Management Pathway (C55240	P)		IC	4/Toddlor Cons Continue Date (255200D)
CORE COURS		,			t/Toddler Care Certificate Pathway (C	*
FIP 120C FIP 152C	Introduction to Fire Protection	3			SES (16)	SHC
FIP 132C FIP 220C	Fire Fighting Strategies.	3 I	EDU	119	Introduction to Early Childhood Education	
FIP 228C	Fire Fighting Strategies. Local Government Finance		EDU	131	Child, Family, and Community	
	R COURSES (6SHC)		EDU	144	Child Development I	
FIP 240	Fire Service Supervision		E D U	153	Health, Safety, & Nutrit	
FIP 248	Fire Personnel Administration		E D U	234	Infants, Toddlers, & Twos	3
Total Credit Ho	urs Required	18	OTHER	REQU	JIRED COURSES (1)	
			ACA	111	College Student Success	1
		7	Total Cr	edit Ho	ours Rerequired	17
Healtl	Information Technology Pathway (C4536	(AD)			ENTAL COURSE REQUIREMENTS*	
CODE COURS	EG (12 GHG)	l r			Integrated Reading Writing III	3
CORE COURS HIT 110	ES (12 SHC) Fundamentals of HIM	SHC				
HIT 112	Health Law and Ethics	3 *	*Develo	pment	al coursework (including all prerequisites) v	vill be required of
MED 121	Medical Terminology I	3 s	students	whose	e placement test scores indicate a need for gre	ater proficiency in
MED 122	Medical Terminology II	3 t	the area	s of rea	ading, English, mathematics, and computers.	Please refer to the
OTHER REQU	IRED COURSES (3 SHC)		Course	Descrip	otions section for prerequisite course informa	tion.
CIS 110	Introduction to Computers	3				
Total Credit Ho	urs Required	15			Information Systems Security	
			N	letwo	rking Security Certificate Pathway (C	25270P1)
			CORE O	COURS	SES (18 SHC)	SHC
	Healthcare Management Technology		NET	125	Networking Basics	
	Receptionist Pathway (C25200P)	N	NET	126	Routing Basics	
CORE COURS	FS (15 SHC)	SHC	SEC	110	Converte Componto	3
HMT 110	Intro to Healthcare Mgt	3 5	SEC	110	Security Concepts	3
111111 110			JLC	160	Security Concepts	3 3 3
HMT 210		3	SEC	160 210	Secure Admin I Intrusion Detection	3 3 3 3
HMT 210 MED 121	Medical Insurance	3	SEC SEC	160 210 220	Secure Admin I	3 3 3 3
HMT 210 MED 121 MED 122	Medical Insurance	3	SEC SEC	160 210 220	Secure Admin I Intrusion Detection	3 3 3 3
MED 121	Medical Insurance	3 3 3	SEC SEC	160 210 220	Secure Admin I	3 3 3 3
MED 121 MED 122 OST 149	Medical Insurance	3 3 3	SEC SEC	160 210 220	Secure Admin I	3 3 3 3
MED 121 MED 122 OST 149	Medical Insurance	3 3 3 3	SEC SEC Fotal Cr	160 210 220 redit Ho	Secure Admin I	3 3 3 3 3 3
MED 121 MED 122 OST 149 OTHER REQU MED 114	Medical Insurance	3 3 3 3	SEC SEC Total Cr Ope i	160 210 220 edit Ho	Secure Admin I	33333318
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho	Medical Insurance	3 3 3 3 1	SEC SEC Total Cr Ope i	160 210 220 edit Horating	Secure Admin I	33333318
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho	Medical Insurance	3 3 3 3 1 16	SEC SEC Total Cr Ope i CORE C	160 210 220 edit Horating COURS 125	Secure Admin I	33333318 v (C25270P3) SHC3
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097	Medical Insurance	3 3 3 3 1 16	SEC SEC Total Cr Ope CORE C NET NOS	160 210 220 redit Horating COURS 125 110	Secure Admin I	
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097	Medical Insurance	33333	SEC SEC Total Cr Ope i CORE C	160 210 220 edit Horating COURS 125	Secure Admin I	
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developments students whose	Medical Insurance	33333	SEC SEC Total Cr Oper CORE CORE CORE NOS NOS	160 210 220 edit Horating COURS 125 110 120	Secure Admin I	
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developmenta students whose the areas of rea	Medical Insurance	33333	SEC SEC Total Cr Oper CORE C NET NOS NOS NOS	160 210 220 edit Horating COURS 125 110 120 130	Secure Admin I	3 3 3 3 18 3 18 y (C25270P3) SHC 3 3 3 3 3 3 3 3
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developmenta students whose the areas of rea	Medical Insurance		SEC SEC Total Cr Open CORE C NET NOS NOS NOS SEC SEC	160 210 220 edit Horating COURS 125 110 120 130 110 150	Secure Admin I	3 3 3 3 18 3 18 (C25270P3) SHC 3 3 3 3 3 3 3 3 3 3
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developmenta students whose the areas of rea	Medical Insurance		SEC SEC Total Cr Open CORE C NET NOS NOS NOS SEC SEC	160 210 220 edit Horating COURS 125 110 120 130 110 150	Secure Admin I Intrusion Detection Defense-In-Depth ours Required Information Systems Security Systems Security Certificate Pathwa SES (18 SHC) Networking Basics Operating Systems Concepts Linux/UNIX Single User Windows Single User Security Concepts Secure Communication ours Required	3 3 3 3 18 3 18 (C25270P3) SHC 3 3 3 3 3 3 3 3 3 3
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPMED DRE 097 *Developmenta students whose the areas of rea Course Descrip	Medical Insurance	3333	SEC SEC Total Cr Open CORE C NET NOS NOS NOS SEC SEC	160 210 220 edit Horrating COURS 125 110 120 130 110 150 edit Horrating	Secure Admin I	3 3 3 3 18 3 18 (C25270P3) SHC 3 3 3 3 3 18
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developments students whose the areas of rea Course Descrip	Medical Insurance	3333	SEC SEC Total Cr Oper CORE C NET NOS NOS NOS SEC SEC Total Cr	160 210 220 edit Horating COURS 125 110 120 130 110 150 redit Horating	Secure Admin I Intrusion Detection Defense-In-Depth ours Required Information Systems Security Systems Security Certificate Pathway SES (18 SHC) Networking Basics Operating Systems Concepts Linux/UNIX Single User Windows Single User Security Concepts Security Concepts Security Concepts Durs Required Information Systems Security Cless Security Certificate Pathway (C2	3 3 3 3 18 3 18 (C25270P3) SHC 3 3 3 3 3 18
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developmenta students whose the areas of rea Course Descrip	Medical Insurance	3333	SEC SEC Total Cr Open CORE CORE CORE NOS NOS SEC SEC Total Cr	160 210 220 edit Horating COURS 125 110 120 130 110 150 edit Horating	Secure Admin I	3 3 3 3 3 3 18 7 (C25270P3) SHC 3 3 3 3 18 5270P4) SHC
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developmenta students whose the areas of rea Course Descrip Ho CORE COURS HOR 112	Medical Insurance	3333	SEC SEC Total Cr Open CORE CORE NOS NOS SEC SEC Total Cr CORE CORE CORE CORE CORE CORE CORE CORE CORE	160 210 220 edit Horating COURS 125 110 120 130 110 150 edit Horating	Secure Admin I	3 3 3 3 3 3 3 18 (C25270P3) SHC 3 3 3 3 18 5270P4) SHC 3 SHC
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developmenta students whose the areas of rea Course Descrip Ho CORE COURS HOR 112	Medical Insurance	3333	SEC SEC Total Cr Open CORE CORE NOS NOS SEC SEC Total Cr CORE CORE CORE CORE NET NET	160 210 220 edit Horating COURS 125 110 120 130 110 150 edit Horating Wire COURS 125 125	Secure Admin I Intrusion Detection Defense-In-Depth Defen	3 3 3 3 3 3 3 18 (C25270P3) SHC 3 3 3 3 18 5270P4) SHC 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPMED DRE 097 *Developmenta students whose the areas of rea Course Descrip Ho CORE COURS HOR 112 HOR 134	Medical Insurance	3333	SEC SEC Total Cr Open CORE CORE CORE NOS NOS SEC SEC Total Cr CORE CORE NET NET NET	160 210 220 edit Horating COURS 125 110 120 130 110 150 edit Horating Wire COURS 125 126 175	Secure Admin I	3 3 3 3 3 3 3 3 3 18 (C25270P3) SHC 3 3 3 3 18 5270P4) SHC 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developmenta students whose the areas of rea Course Descrip Ho CORE COURS HOR 112 HOR 134 HOR 160 HOR 164	Medical Insurance	3333	SEC SEC Total Cr Opel CORE CORE CORE SEC Total Cr CORE CORE CORE CORE TOTAL	160 210 220 edit Horating COURS 125 110 120 130 110 150 edit Horating Wire COURS 125 126 175 110	Secure Admin I	3 3 3 3 3 3 3 3 18 (C25270P3) SHC 3 3 3 3 18 5270P4) SHC 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developmenta students whose the areas of rea Course Descrip Ho CORE COURS HOR 112 HOR 134 HOR 160 HOR 164 OTHER MAJO	Medical Insurance	3333	SEC SEC Total Cr Open CORE CORE NOS NOS SEC SEC Total Cr CORE CORE NET NET NET NET NET SEC SEC	160 210 220 edit Horating COURS 125 110 120 130 110 150 edit Horating Wire COURS 125 126 175 110 150	Secure Admin I Intrusion Detection Defense-In-Depth Jury Required Information Systems Security Systems Security Certificate Pathway SES (18 SHC) Networking Basics Operating Systems Concepts Linux/UNIX Single User Windows Single User Security Concepts Security Concepts Security Concepts Security Concepts Security Concepts Security Certificate Pathway (C2 SES (18 SHC) Networking Basics Routing Basics Routing Basics Wireless Technology Security Concepts	3 3 3 3 3 3 3 3 18 (C25270P3) SHC 3 3 3 3 18 5270P4) SHC 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPMED DRE 097 *Developmenta students whose the areas of rea Course Descrip Ho CORE COURS HOR 112 HOR 134 HOR 160 HOR 164 OTHER MAJO HOR 215	Medical Insurance	3333	SEC SEC Total Cr Open CORE CONS NOS NOS SEC SEC Total Cr CORE CORE NET NET NET NET SEC SEC OTHER	160 210 220 edit Horating COURS 125 110 120 130 110 150 edit Horating Wire COURS 125 126 175 110 150	Secure Admin I Intrusion Detection. Defense-In-Depth. Defense-In-Depth. Durs Required Information Systems Security (Systems Security Certificate Pathway SES (18 SHC) Networking Basics. Operating Systems Concepts Linux/UNIX Single User. Windows Single User. Security Concepts Security Concepts Secure Communication Durs Required Information Systems Security Sess Security Certificate Pathway (C2 SES (18 SHC) Networking Basics. Routing Basics Wireless Technology Security Concepts Secure Communication. DR COURSES (3 SHC)	3 3 3 3 3 3 3 18 (C25270P3) SHC 3 3 3 3 18 5270P4) SHC 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MED 121 MED 122 OST 149 OTHER REQU MED 114 Total Credit Ho DEVELOPME DRE 097 *Developmenta students whose the areas of rea Course Descrip Ho CORE COURS HOR 112 HOR 134 HOR 160 HOR 164 OTHER MAJO HOR 215	Medical Insurance	33333	SEC SEC Total Cr Open CORE CONET NOS NOS SEC SEC Total Cr CORE CONET NET NET NET SEC SEC OTHER SEC	160 210 220 edit Horating COURS 125 110 120 130 110 150 edit Horating Wire COURS 125 126 175 110 150 MAJO 240	Secure Admin I Intrusion Detection Defense-In-Depth Jury Required Information Systems Security Systems Security Certificate Pathway SES (18 SHC) Networking Basics Operating Systems Concepts Linux/UNIX Single User Windows Single User Security Concepts Security Concepts Security Concepts Security Concepts Security Concepts Security Certificate Pathway (C2 SES (18 SHC) Networking Basics Routing Basics Routing Basics Wireless Technology Security Concepts	3 3 3 3 3 3 3 18 (C25270P3) SHC 3 3 3 3 3 18 5270P4) SHC 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Mechatronics Engineering Technology Pathway (C40350P)

CORE	COUR	SES (16 SHC)	SHC
ATR	112	Intro to Automation	3
ELC	112	DC/AC Electricity	5
HYD	110	Hydraulics/Pneumatics	3
ISC	112	Industrial Safety	2
		Mechanisms	
Total Credit Hours Required			16

Networking Technology Cisco Certified Network Certificate Pathway (C25340P1)

CORE	COUR	SES (12 SHC)	SHC	
NET	125	Networking Basics	3	
NET	126	Routing Basics	3	
NET	225	Routing & Switching I		
NET	226	Routing & Switching II	3	
Total Credit Hours Required				

Networking Technology Operating Systems Certificate Pathway (C25340P4)

CORE	COUR	SES (12 SHC)	SHC			
NOS	110	Operating System Concepts	3			
NOS	120	Linux/UNIX Single User	3			
NOS	130	Windows Single User				
NOS	230	Windows Admin I	3			
OTHE	R MAJ	OR COURSES (3 SHC)				
NOS	244	Operating System - AS/400	3			
Total C	Total Credit Hours Required					

Office Administration Pathway (D25370P)

GENE	RAL ED	DUCATION COURSES (6 SHC)	SHC		
English/Communication:					
ENG	111	Writing and Inquiry	3		
ENG	113	Literature-Based Research	3		
CORE	COURS	SES (12 SHC)			
OST	136	Word Processing	3		
OST	164	Text Editing Applications			
OST	181	Introduction to Office Systems			
OST	184	Records Management	3		
OTHE	R MAJO	OR COURSES (19 SHC)			
BUS	115	Business Law			
CIS	110	Introduction to Computers	3		
CTS	130	Spreadsheet Software			
OST	132	Keyboard Skill Building			
OST	137	Office Software Applications			
OST	153	Office Finance Solutions			
WEB	110	Internet/Web Fundamentals	3		
Total C	redit Ho	ours Required	37		
DEVE	LOPME	ENTAL COURSE REQUIREMENTS*			
CTS	080	Computing Fundamentals	3		
DRE	098	Integrated Reading Writing III	3		
OST	080	Keyboarding Literacy	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 Certificate Pathway (C25370P)

CORE	COURS	SES (12 SHC)	
OST	136	Word Processing	3
OST	164	Text Editing Applications	3
OST	181	Introduction to Office Systems	3
OST	184	Records Management	3
OTHE	R MAJO	OR COURSES (5 SHC)	
CIS	110	Introduction to Computers	3
OST	132	Keyboard Skill Building	2
Total C	Credit Ho	ours Required	17
DEVE	LOPME	ENTAL COURSE REQUIREMENTS*	
CTS	080	Computing Fundamentals	3
DRE	098	Integrated Reading Writing III	3
OST	080	Keyboarding Literacy	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.

Photographic Technology Pathway (C30280P)

CORE	COUR	SES (14 SHC)	SHC		
PHO	110	Fund of Photography	5		
PHO	115	Basic Studio Lighting	4		
PHO	139	Intro to Digital Imaging	2		
PHO	224	Multimedia Production	3		
Total C	Credit H	ours Required	14		
DEVELOPMENTAL COURSE REQUIREMENTS* DRE 098 Integrated Reading Writing III					

*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.

Photographic Technology Pathway (C30280P2)

CORE	COUR	SES (14 SHC)	SHC
PHO	110	Fund of Photography	5
PHO	115	Basic Studio Lighting	4
PHO	139	Intro to Digital Imaging	2
PHO	224	Multimedia Production	3
OTHE	R MAJO	OR COURSES (4 SHC)	
PHO	120	Intermediate Photography	4
Total C	redit H	ours Required	18
DEVE DRE		ENTAL COURSE REQUIREMENTS* Integrated Reading Writing III	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.

Photographic Technology Pathway (C30280P3)

CORE COUR	SES (14 SHC)	SHC
PHO 110	Fund of Photography	5
PHO 115	Basic Studio Lighting	4
PHO 139	Intro to Digital Imaging	2
PHO 224	Multimedia Production	3
OTHER MAJO	OR COURSES (2 SHC)	
PHO 219	Digital Applications	2
Total Credit H	ours Required	16
	ENTAL COURSE REQUIREMENTS* Integrated Reading Writing III	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.

Welding Technology Pathway (D50420P)

GENE	RAL ED	UCATION COURSES (6 SHC)			
SHC					
ENG	102	Applied Communications II			
MAT	110	Mathematical Measurement and Literacy3			
CORE COURSES (18 SHC)					
WLD	110	Cutting Processes			
WLD	115	SMAW (Stick) Plate			
OR	WLD	115BC SMAW (Stick) Plate-BC			
		115CC SMAW (Stick) Plate-CC			
WLD	121	GMAW (MIG) FCAW/Plate4			
WLD	131	GTAW (TIG) Plate4			
WLD	141	Symbols & Specifications			
OTHER MAJOR COURSES (16 SHC)					
ELC	111	Intro to Electricity			
WLD	116	SMAW (Stick) Plate/Pipe4			
OR	WLD 1	116AB SMAW (Stick) Plate/Pipe-AB2			
	WLD 1	116BB SMAW (Stick) Plate/Pipe-BB2			
WLD	143	Welding Metallurgy2			
WLD	215				
OR	WLD 2	215AB SMAW (Stick) Pipe-AB			
WLD 215BB SMAW (Stick) Pipe-BB2					
WLD	261	Certification Practices			
WLD	262	Inspection & Testing			
Total Credit Hours Required					
DEVELOPMENTAL COURSE REQUIREMENTS*					
DMA		010, DMA 020, DMA 030 (MAT 110)3			
DMA		10, DMA 020, DMA 030, DMA 040, DMA 050 (MAT 143)5			
DRE	097	Integrated Reading Writing II3			

^{*}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 Certificate Pathway (C50420P)

CORE	COURS	ES (18 SHC)	
WLD		Cutting Processes	2
WLD	115	SMAW (Stick) Plate	4
	OR	()	
WLD	115AC	SMAW (Stick) Plate-AC	2
WLD	115BC	SMAW (Stick) Plate-BC	2
WLD	115CC	SMAW (Stick) Plate-CC	1
WLD	121	GMAW (MIG) FCAW/Plate	2
WLD	131	GTAW (TIG) Plate	
WLD	141	Symbols & Specifications	3
Total C	Credit Ho	urs Required	