# CURRICULA

## ARCHITECTURAL TECHNOLOGY

The Architectural Technology program provides instruction in the concepts and skills required for careers in architectural and related professions. Areas of study develop skills necessary for the preparation of construction documents from schematic design approval into design development, contract documents and contract administration phases for the built environment. Emphasis is placed on quality graphic communication. Graduates are prepared to find employment in architectural and related professions including positions in computer and board drafting, estimating, construction management, plan code review, building inspection, graphics, specification writing, urban planning, contracting, subcontracting, building material sales and management.

For more information, visit the Architectural Technology program Web site: <u>www.uky.edu/LCC/ARCH</u>.

Cours	<u>e</u>		
<u>Credit</u>	<u>s</u>		
ACH		100	
C	onstruct	ion Documents I	3
ACH		110	
Sı	rvey of	the Architectural Profession	1
ACH		120	
Tl	neory an	d History of Architecture I	3
ACH		150	
C	onstruct	ion Documents II	3
ACH		160	
B	uilding N	Materials and Construction I	3
ACH		161	
В	uilding N	Materials and Construction II	3
ACH		170	
Tl	neory an	d History of Architecture II	3
ACH	5	175	
In	troducti	on to Systems	3
ACH		185	
C	omputer	-Aided Drafting I	3
ACH	1	200	
C	onstruct	ion Documents III	3
ACH		225	
St	ructures	3	
ACH		250	
C	onstruct	ion Documents IV	3
ACH		260	
0	ffice Pra	actice	3
ACH		275	
М	echanic	al and Electrical Systems	3
Technie	cal Cour	ses	8
ENG	101	Writing I*	3
ENG	102	Writing II*	3
MAH	125	Technical Mathematics*	3
Heritag	e/Huma	nities Course*	3
Oral Co	ommuni	cation Course*	3
Science	Course	*	
3			
Social	Interacti	on Course*	3
Elective	e Course	e(s)	1-3

## 70 - 72

\*General Education Course

## **Technical Courses**

Total

ACH		180	
S	elected 7	Fopics in Arch Technology: (Topic)1	-3
ACH		194	
V	isual Co	mposition I	,
ACT		285	
C	Computer	-Aided Drafting II	,
ACH		290	
В	Building C	Codes I	,
ACH		291	
C	Construct	ion Management3	,
ACH		292	
В	uilding C	Codes II	,
ACH		293	
Р	resentati	on Techniques	,
ACH		294	
S	pecificat	ion Writing	,
ACH		297	
E	stimatin	g Techniques3	,
ACH	298	Computer 3D Modeling	,
COE	199	Cooperative Education: Arch Tech1	-3

## **BUSINESS TECHNOLOGY**

## With options in Equine Business Management, Management, Marketing and Retailing, And Real Estate Management

The Business Technology program prepares students for a variety of careers in business. A core curriculum provides students with a foundation of knowledge applicable to any business career. Students select an area of specialty from one of four options: management, marketing and retailing, quality, and real estate management.

The curriculum is designed for those who seek entry level jobs as well as for currently employed individuals wishing to enhance their skills. Students specialize by choosing from the following options:

The **Management option** prepares students with broad based management knowledge and skills which lead to a variety of positions in organizations.

The **Marketing and Retailing option** leads to employment in sales, merchandise management, buying, department supervising, or retail management.

The **Equine Business Management option** provides the knowledge and skills students need to take advantage of various employment opportunities within the horse industry.

The **Real Estate Management option** leads to a career in real estate which may include sales, finance, counseling, development, market analysis, valuation, and/or property management.

For more information, visit the Business Technology program web site at <u>www.uky.edu/LCC/BUS</u>.

Core

<u>Course</u>			
Credit	<u>s</u>		
BE	160	Introduction to Business	3
BE	267	Introduction to Business Law	3
	OR		
RE	230	Real Estate Law	(3)
BE	282	Principles of Marketing	3
BE	283	Principles of Management	3
ACC	201	Financial Accounting I	3
ACC	202	Managerial Uses of Accounting Information	3
CIS	105	Introduction to Computing	3
	AND		
CIS	130	Microcomputer Applications	3
	OR		
IMD		100	
In	troduct	ion to Information Systems	(3)
	AND		
IMD		210	
In	tegrated	Information Processing	3
COM	181	Basic Public Speaking*	3
	OR		
COM	252	Interpersonal Communications*	(3)
ENG	101	Writing I*	3
ENG	102	Writing II*	3
ENG	203	Business Writing	3
ECO	201	Principles of Economics I*	3
MA	109	College Algebra*	3
MAH	121	Mathematics for Business*	3
QT	101	Quality Management Principles	3
Heritag	e/Huma	nities/Foreign Language Course*	3
Science	e Course	*	3

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\*General Education Course

## **Management Option**

Subtotal

54

Requ	uired:	
BE	200	Small Business Management
	OR	
BE	256	Operations Management
BE	274	Human Resource Management 3
	OR	
BE	287	Supervisory Management
BE	284	Applied Management Skills

## **Choose a total of 6 hours from the following:** BE 120 Personal Finance

BE	120	Personal Finance	3
BE	288	Self Management	3
BE	291	Retail Management	3
BE	298	Principles of Statistical Process Control	3

BE	299	Selected Topics in Business Technology:	
		(Option Topic)	1-3
IMD	275	Workplace Management	3
ACT		277	
Ν	/lanagei	rial Accounting	3
ACT		280	
C	Cost Ac	counting	3
COE	199	Cooperative Education: Business Technologies	ogy1-4
ECO	202	Principles of Economics II+*	3
QT	102	Quality Improvement Skills	3
QT	202	Performance Management	3
RE	100	Real Estate Principles I	3
RE	120	Real Estate Marketing	<u>3</u>
		Subt	otal
15			

Total

## **Marketing and Retailing Option**

## **Required:**

69

		Total	
		Subtotal	18
ECO	202	Principles of Economics II *	. <u>3</u>
COE	199	Cooperative Education: Business Technology.	.1-4
	(Option	n Topic)	.1-3
BE	299	Selected Topics in Business Technology:	
BE	288	Self Management	.3
BE	200	Small Business Management	.3
BE	120	Personal Finance	.3
Choose	3 hours	s from the following:	
BE	293	Buying and Merchandising	.3
BE	291	Retail Management	.3
BE	290	Advertising and Promotion	.3
BE	155	Personal Selling	.3

69

## **Real Estate Management Option**

Requ	ired:		
RE	100	Real Estate Principles I	3
RE	121	Appraising	3
RE	225	Real Estate Finance	3
Choos	e 6 hou	urs from the following:	
RE	120	Real Estate Marketing	3
RE	122	Construction and Blueprints	3
RE	200	Real Estate Principles II	3
RE	201	Property Management	3
RE	202	Real Estate Investments I	3
RE	220	Real Estate Brokerage Management	3
COE	199	Cooperative Education: Business Technolog	y <u>1-4</u>
		Subtotal	
18		Total	
69		i otai	

**Equine Business Management Option\*** 

Requi	red:**	
EQM	100	Introduction to Equine Studies

EQM	120	Introduction to Commercial Breeding Practices	
4			
EQM	140	Equine Business Management I2	
EQM	240	Equine Business Management II 2	
EQM	242	Equine Law	
EQM	246	Current Trends in the Equine Industry1	
EQM	250	Equine Practicum <u>3</u>	
		Subtotal	
18			
		Total	
72			

\*General Education Course

\*\*Pending approval of the University of Kentucky Senate.

## CIVIL ENGINEERING TECHNOLOGY

The Civil Engineering Technology program is an Associates of Applied Science program designed to offer students the training necessary to establish careers in civil engineering technology fields. Career options include Materials Testing, Commercial, Residential and Highway Surveying; Highway Construction Management; Construction Management; Cons truction Estimation; Construction Documentation; Construction Sight Design and Waste-Water Management.

The Civil Engineering Technology Program will focus on the field tasks and hands on aspects of construction.

For more information, visit the Civil Engineering Technology website: <u>http://www.uky.edu/LCC/ET/Civil/</u>

## **Required:**

ENĜ	101	Writing I*	
ENG	102	Writing II*	3
CAD		100	
I	ntroduc	ction to Computer-Aided Design	3
	OR		
ACH	185	Computer-Aided Drafting I	3
Herita	ge/Hun	nanities/Foreign Language Course*	6
MA	109	College Algebra*	3
Oral C	Commui	nication Course*	3
PHY		211	
(	General	Physics*	3
Social	Interac	tion Course*	3

## CORE :

ACH		160	
E	Building	Materials and Construction I	
ACH		225	
S	tructure	es 3	
CE	211	Surveying	
CET	150	Civil Engineering Graphics	
CET	200	Civil Engineering Materials	
CET	210	Structural Analysis and Design	
CET	220	Intermediate Surveying	
CET	260	Hydrology and Drainage	
MA	112	Trigonometry*	2
Electiv	ve		
3			
Techn	ical Ele	ectives	<u>9</u>
			Subtotal
40			
			Total
66			

## Technical Electives\*\*

ACH		100	
C	Construct	ion Documents I	3
ACH	150	Construction Documents II	3
ACH		161	
E	Building N	Aaterials and Construction II	3
ACH		285	
C	Computer	-Aided Drafting II	3
ACH		290	
E	Building C	Codes I	3
ACH		291	
C	Construct	ion Management	3
ACH		292	
E	Building C	Codes II	3
ACH	294	Specification Writing	3
ACH		297	
E	stimating	g Techniques	3
ACH		298	
C	Computer	3D Modeling	3
CET	280	Highway Design	3
CAD		200	
I	ntermedi	ate Computer-Aided Design	3

**\*\***Other course(s) approved by program coordinator

## <u>COMPUTER INFORMATION SYSTEMS</u> WITH OPTIONS IN APPLICATIONS, NETWORK TECHNOLOGY, AND PROGRAMMING

This program includes an Applications option, a Network Technology option, and a Programming option, with a core of courses common to all. The core includes a general education component central to a collegiate education and technical courses giving students an introduction to information systems, computer applications, program development, system maintenance, and networking including the Internet. In addition to core courses, students take specialty courses for their selected option.

The **Applications option** emphasizes several aspects of microcomputer system configuration, applications software, end-user documentation, and training. Students completing this option are prepared to work with microcomputer-based systems in business and industry.

The **Network Technology option** provides the concepts and skills needed to set up, maintain, and expand networked computer systems. Employment opportunities include entrylevel positions in installation and administration of local area networks in medium to large organizations and as computer network administrators in small businesses.

The **Programming option** provides students with an introduction to at least two programming languages with at least one of the languages studied at the intermediate level. Students completing this option are prepared for entry-level positions in computer programming.

The Computer Information Systems program has а selective admissions policy. In order to be considered for admission to the Computer Information Systems program, each applicant must be admitted to Lexington Community College and file a letter of intent with the Computer Information Systems Program Coordinator. For admission in the summer or fall semester classes, the letter of intent must be filed by February 15 and for the spring semester class by October 1. Exceptions to the February 15 and October 1 dates can only be granted by the President of Lexington Community College after consultation with the Computer Information Systems Program Coordinator. To be considered for admission to the program, a student must also:

- Successfully complete CIS 105, CIS 110, CIS 120, and CIS 1 130. "Successful completion" is defined as:
  - earning a "C" grade or better in the course,
  - passing the exam for credit for a course, or
  - · transferring credit from an accredited institution and earning at least a 2.0 on a 4.0 scale for the course.
- 2. Complete MA 108R with a "C" grade or better, or have a math ACTE score of at least 18 and have completed two years of high school algebra, or have completed the Math Placement Test with a resulting score indicating preparedness for MA 109; or successfully complete MA 109 or higher-level MA course.
- 3. Complete the orientation program for Computer Information Systems.
- 4. Attend a pre-admission conference with a CIS advisor or the coordinator's designee.

See Guidelines for Admission to the Computer Information Systems Program, page 68, or consult an academic advisor for more details. For more information, visit the Computer Information Systems program Web site at www.uky.edu/LCC/CIS.

## Core

## **General Education**

ENG	101	Writing I*		
ENG	102	Writing II*	3	
MA	109	College Algebra*	3	
Herita	ge/Hun	nanities/Foreign Language Course*	3	
Oral C	Commu	nication Course*	3	
Scienc	e Cour	se *	3	
Social	Social Interaction Course*			
*Gene	eral Edi	ucation Course		

**Premajor Requirements** 

CIS	105	Introduction to Computing	
CIS	110	Operating Systems Concepts	
CIS	120	Program Design	
CIS	130	Microcomputer Applications 3	

## **Major Requirements**

CIS	150	Internet Technologies	3
CIS	160	Data Communications and Networking	4

ET	134	Computer Hardware Maintenance	3
Approv	ed Leve	el I Programming Language	3
Approv	ed Tech	nnical Course(s)	3

49

## Subtotal

## **Applications Option**

CIS	170	Introduction to Database Design	3
CIS	220	Systems Analysis and Design	3
CIS	290	Information Systems Design and Im	plementation
	3		
Appr	oved Ap	plications Specialization	9
Appr	oved Ma	nagement Course	3
Appr	oved Ac	counting Course	3

24

## Subtotal

## **Network Technology Option**

CIS	260	Network Hardware Installation	
		and Troubleshooting	3
CIS	269	Internet Protocols	3
CIS	292	Designing Network Solutions	3
Appro	ved Le	vel I Network Technology Specialization	6
Appro	ved Le	vel I or II Network Technology Specialization.	6
Appro	ved Scr	ipting Language Course	3

24

## Subtotal .....

## **Programming Option**

CIS	170	Introduction to Database Design	3
CIS	220	Systems Analysis and Design	3
CIS	290	Information Systems Design	
		and Implementation	3
Appro	oved Le	vel I Programming Language (beyond the	Core)3
Appro	oved Le	evel II Programming Language	3-4
Appro	oved Le	vel I or II Programming Language	3-4
Appro	oved Ma	anagement Course	3
Appro	oved Ac	counting Course	3

25	Subtotal	24
74	Total	73-

## **Course Choice Lists**

#### Accounting Courses\*\* . . .

		-	
ACC	201	Financial Accounting I	.3
ACC	202	Managerial Uses of Accounting Information	.3

## Management Courses\*\*

BE	200	Small Business Management	3
BE	283	Principles of Management	3
BE	287	Supervisory Management	3
BE	291	Retail Management	3

Ο	т	101	Juality Management Principles 3
V	1	101	Juanty Management Finciples

## **Applications Specializations\*\***

Productivity	Software	Specialization
-		-

IMD		235	
	Advanced	Word Processing	3
CIS	234	Advanced Spreadsheet Applications	3
CIS	236	Advanced Database Applications	3

## Database Developer Specialization

CIS	171	SQL I	3
CIS	271	SQL II	3
CIS	236	Advanced Database Applications	

## Level I Network Technology Specializations\*\*

## Windows 2000 Specialization

CIS	211	Windows 2000 Professional and Server
CIS	212	Supporting Windows 2000 Network
		Infrastructure

## Netware Specialization

CIS	213	NetWare System Administration
CIS	214	Advanced NetWare Administration

## **CISCO** Specialization

CIS	281	Routing and Switching	
CIS	282	Advanced Routing and Switching	
NOTE	E: stude	nts pursuing the Cisco Specialization sh	nould also
take (	CIS 283,	Wide Area Network Management and I	Design, in
order	to comp	lete their Cisco Certified Network Admi	nistrator
(CCN	A) prepa	aration.	

## Unix Specialization

CIS	217	Unix Administration	3
CIS	218	Advanced Unix Administration	3

## Level II Network Technology Specialization\*\*

## Advanced Windows 2000 Specialization

CIS	261	Windows 2000 Directory Service	
		Administration	
CIS	262	Windows 2000 Directory Services Infrast	ructure
		Design	3

## Level I Programming Languages\*\*

CIS	140	JavaScript I: JavaScript and the Web	3
CIS	143	COBOL I	3
CIS	145	Perl I: Perl Fundamentals	3
CIS	148	Visual Basic I	3
CIS	149	Java I: Java Fundamentals	3
CIS	171	SQL I	3
CS	115	Introduction to Computer Programming	3

## Level II Programming Languages\*\*

CIS	243	COBOL II	3
CIS	245	Perl II: Perl and the Web	3
CIS	248	Visual Basic II	3
CIS	249	Java II: Java and the Web	3
CIS	271	SQL II	3
CS	215	Introduction to Program Design, Abstract	ion.

CS	216	and Problem Solving4 Introduction to Software Engineering3	

## Scripting Languages\*\*

CIS	140	JavaScript I: JavaScript and the Web3
CIS	145	Perl I: Perl Fundamentals

## **Technical Courses\*\***

ACH		100	
0	Construc	tion Documents I	
ACH		185	
0	Compute	er-Aided Drafting I3	
CAD		100	
I	ntroduc	tion to Computer-Aided Design3	
COE	199	Cooperative Education: CIS3	
ET	112	Digital Logic Circuits4	
ET	256	Microprocessor Fundamentals4	
GIS	120	Introduction to Geographic Information System	S
3			
IMD	126	Introduction to Desktop Publishing	
IMD	226	Advanced Desktop Publishing3	
Additi	onal CI	S Course(s) (EXCEPT CIS 103)1	-3
Additi	onal CS	Course(s) (EXCEPT CS 100 and CS 101)3	-4
Appro	ved Aco	counting Courses	
** Or	other co	ourses approved by Computer Information System	S
Progra	im Coo	rdinator	

## Note:

- Students may not use one course to fulfill multiple requirements.
- Students may choose CIS 280 or COE 199 for a maximum of 3 credit hours.
- Non-general education course credits more than 10 years old cannot be used to fulfill graduation requirements.
- Only CIS and CS courses in which a student earned a "C" or higher (or "Pass" for Pass/Fail courses) may be used to fulfill graduation requirements.

## DENTAL HYGIENE

This program prepares students to function as dental hygienists on a dental auxiliary team under the supervision of a dentist. The curriculum includes courses in general education and in dental hygiene as required by the Commission on Dental Accreditation. The program provides comprehensive educational experiences through lectures, clinical and related study in order that they may apply scientific knowledge in the performance of dental hygiene procedures. Students enrolled in the Dental Hygiene program must achieve a minimum grade of "C" in each Dental Hygiene and approved science course.

Upon completion, graduates are eligible to take the state licensing examinations for dental hygienists. As the only licensed dental auxiliaries, dental hygienists may be employed in dentist offices, clinics, dental schools, public health and governmental agencies, industry and educational institutions. Please see the guidelines for the selective admission requirements to the Dental Hygiene Program, page 62 or visit the Dental Hygiene program Web site at www.uky.edu/LCC/DHY.

## First Year

Sumi	ner	Sessions
Cred	its	
BSL	110	Human Anatomy and Physiology I* 4
BSL	111	Human Anatomy and Physiology II*

8

Fall Samastar

ran s	emeste		
DHY		120	
Γ	Dental H	ygiene I	5
DHY		121	
C	Oral Bio	logy I	3
ENG	101	Writing I*	3
BSL	212	Medical Microbiology* or	4
BIO	208	Principles of Microbiology*	(3)

## 14-15

# Spring SemesterDHY130Dental Hygiene II3DHY131Oral Biology II5DHY135Dental Radiology2DHY136Periodontics for the Dental Hygienist I2ENG102Writing II\*3

17

## Second Year

First	Summ	er Session	
Cred	its		
PY	110	General Psychology*	
Oral (	Commur	nication Course*	
Seco	nd Six '	Weeks	
NFS	101	Human Nutrition and Wellness	

## 9

Fall S	Semester	
DHY	220	
D	Dental Hygiene III Clinic	
DHY	221	
S	Special Needs Patients	
DHY	224	
D	Dental Materials	
DHY	226	
Р	Periodontics for the Dental Hygienist	II 2
SOC	101 Introductory Sociology*	

13		
Spring S	Semester	
DHY	230	
Den	tal Hygiene IV	4
DHY	235	
Prin	ciples of Practice	1
DHY	238	
Con	nmunity Dental Health	4
Heritage/	Humanities Course*	
Mathema	tics Course*	

# 14-17

<b>Total Credits</b>	75 -

79

## \*General Education Course

The Dental Hygiene Program at Lexington Community College requires that BSL 110 be successfully completed prior to beginning DHY 120.

## **DENTAL LABORATORY TECHNOLOGY**

This program prepares individuals to fabricate dental prosthetic appliances that replace or repair natural teeth to help patients eat, chew, talk, and smile as well or better than they did before. Dental technicians work collaboratively with dentists by following a written work authorization that details the type of prosthesis needed. Dental technicians do not have direct contact with the patient but instead use stone models made from impressions of the patient's teeth and surrounding soft tissues.

The curriculum includes courses in general education and in dental laboratory technology as required by the Commission on Dental Accreditation. Students enrolled in the Dental Laboratory Technology Program must achieve a minimum grade of "C" in each Dental Laboratory Technology course. Upon completion, graduates are eligible to take the National Board for Certification Recognized Graduate Examination.

The dental laboratory technician has many employment options including commercial dental laboratories, dental offices that have their own laboratories, dental sales and manufacturing firms. Graduates may also choose to own a laboratory, state laws permitting, or seek a teaching position at a dental technology education program. Please see the guidelines for the selective admission requirements to the Dental Laboratory Technology Program, page 63.

For more information, visit the Dental laboratory Technology program Web site at <u>www.uky.edu/LCC/DLT</u>.

## First Year

Fall S	Seme	este	r
--------	------	------	---

ENG	101	Writing I*	.3
DN	101	Dental Morphology I	.2
DN	111	Dental Materials I	.2

DN121Complete Dentures I2DN131Removable Partial Dentures I2DN141Occlusion I2DN151Fixed Prosthodontics I2

15

## **Spring Semester**

ENG	102	Writing II*	
DN	102	Dental Morphology II	2
DN	112	Dental Materials II	2
DN	122	Complete Dentures II	2
DN	132	Removable Partial Dentures II	2
DN	142	Occlusion II	2
DN	152	Fixed Prosthodontics II	<u>2</u>

15

## Summer Session

Social Interaction	. 3
Heritage/Humanities/Foreign Language	. 3

6

#### Second Year

## **Fall Semester**

Oral (	Commu	nication*	3
Math	ematics		3
DN	261	Applied Laboratory Techniques	8
DN	281	Orthodontic Laboratory Techniques	<u>2</u>
16			
Sprin	ng Sem	ester	

Scien	ce	
DN	262	Advanced Specialty Laboratory Techniques 8
DN	291	Dental Laboratory Management, History and
		Ethics
13		
		TOTAL

65

## EARLY CHILDHOOD EDUCATION

The primary goal of the Early Childhood Education program is to prepare students for employment as professionals in a number of settings. These may include nursery schools, preschools, child care centers, after school and school age programs, family child care homes, Home Visiting programs and family service agencies. Students will acquire a core of knowledge that includes a general education component, child development; a philosophy of teaching and learning; and the theory and practices necessary to implement high quality care and curriculum planning for individual children and groups. A variety of community settings will provide selected experiences for appropriate interactions with young children, opportunities for planning and implementing curriculum ideas and applying theory to practice in a classroom setting, culminating in a supervised practicum and a professional portfolio of learning experiences. A Child Development Associate Credential (CDA) may be earned by taking courses in this program and meeting separate eligibility requirements set forth by the National Council for Professional Recognition.

In order to have contact with children, state licensing regulations require that all students have a current TB skin test and criminal records check. In addition, students must purchase liability insurance in order to take part in field experiences.

## Curriculum Outline

1 <sup>st</sup> Yea	r Sumi	ner I (6-7)
ENG	101	Writing I*
PY	110	General Psychology
	OR	
PSY		100
D	evelopn	nental Psychology*
1 <sup>st</sup> Yea	r Sumi	ner II (6)
ENG	102	Writing II*
COM	181	Basic Public Speaking*
1 <sup>st</sup> Yea	r Fall	(13-15)
Electiv	e	
MA	109	College Algebra*
HIS	108	History of the U.S. through 1865* 3
SOC		101
In	troduct	ion to Sociology*
EC	120	Introduction to Early Childhood Education 3
1 <sup>st</sup> Yea	r Sprin 2)	ng
BIO	102	Human Ecology* 3
FAM	252	Introduction to Family Science* 3
EC	130	Observing Young Children 3
EC	170	Learning Activities and Materials 3
2nd Vo	ar Fall	(13)
L I C	100	(13) History of the U.S. since 1865* 3
1115	OR	
BIO	103	Basic Ideas of Biology*
EDP		202
Н	uman D	evelopment and Learning
EC	200	Curriculum Development for Early Childhood
		Education
FAM	256	Guidance Strategies for Working with
		Young Children
2 <sup>nd</sup> Yes	ar Spri	ng (12)
NFS	101	Human Nutrition and Wellness
FAM	255	Child Development*
EC	220	Children with Exceptionalities
EC	260	Practicum in Early Childhood Education
-		Total Hours

## 62-65

\*General Education Course

\*\*Curriculum change/revision will add an elective to the program in Fall 2001, pending approval by the University of Kentucky Senate

# ENGINEERING TECHNOLOGY

WITH Electrical Specialization

This program gives individuals the background to work as assistants to engineers or as liaisons between engineers and skilled craftsmen. The curriculum ombines specialized and related science courses with course work in general education.

The Electrical specialization prepares students to seek employment in an engineering office in the areas of electrical design, maintenance, and repair. In addition, the technician may be involved in research, development, production or sales. Career opportunities are often found in consulting, manufacturing or in power distribution.

For more information, visit the Engineering Technology program Web site at www.uky.edu/LCC/ET.

ENG	101	Writing I*	3
ENG	102	Writing II*	3
Oral Co	ommuni	cation Course	3
Social Interaction Course			3
Heritag	e/Huma	nities/Foreign Language Course	3
MA	109	College Algebra*	3
AND			
MA	112	Trigonometry	2
OR			
MA	110	Analytical Geometry and Trig	(4)
MA	123	Elem. Calculus & its Applications	3
OR			
MA	113	Calculus I	(4)
PHY	211	General Physics	5
		Core	
		Cre	dits
ET	110	Electrical Circuits I	4
ET	111	Electrical Circuits II	4
ET	112	Digital Logic Circuits	4
ET	241	Electronics I	4
ET	253	Industrial Electronics	4
ET	256	Microprocessor Fundamentals	4
ET	262	Measurement and Instrumentation	4
Techni	cal Cou	rse	8
CAD		100	
In	tro to C	Computer-Aided Design	3
Coordi	nator Ap	pproved CS/CIS course	3
		Subtotal	

## 58 - 62

\*General Education Course

200

## **Technical Courses**

CAD		200
In	termedi	ate Computer-Aided Design
COE	199	Cooperative Education: Industrial Elec. Tech
3		
ET	134	Computer Hardware Maintenance
ET	244	Electrical Machinery and Controls
ET	250	Programmable Logic Controllers
ET	251	Electronics II
ET	254	(Electrical) Instrumentation and Measurements
4		
ET	290	Selected Topics in Engineering Technology:
		(Topic)1-4
ET	295	Independent Problems1-6
MFG		265
In	dustrial	Automation and Robotics
Other c	ourse a	pproved by Program Coordinator
PHY	213	General Elementary Physics

## ENVIRONMENTAL SCIENCE TECHNOLOGY

This program includes specialized environmental science courses in addition to general education coursework to provide individuals the background necessary for understanding the ecological relationships of the environment. Coursework also emphasizes the application of scientific principles to pollution control problems in accordance with state and federal regulations. Practical lab and field experience in sampling and analysis will be stressed. Emphasis is placed on developing the students' ability to function effectively in a variety of job situations. Graduates of this program will be prepared to sample and analyze air, water and soil in accordance with state and federal regulations. Environmental technicians may be responsible for such job duties as air pollution surveillance, analysis of water and wastewater samples, ground water and surface water assessment, field sampling, data interpretation, and other support services to engineering and science professionals. Graduates in this field may be employed as technicians by federal, state and local governmental units as well as utilities, private industry, and environmental engineering consulting firms.

For more information, visit the Environmental Science Technology program Web site at www.uky.edu/LCC/EST.

## Curriculum Outline

First S	Semest	er/Fall
ENG	101	Writing I*
MA	109	College Algebra
CIS	105	Intro to Computing
BIO	103	Basic Ideas of Biology*
BIO	111	Intro to Biology Lab1
EST	150	Introductory Ecology*4
Secon	d Seme	ester/Spring
ENG	102	Writing II*
CIS	130	Microcomputer Applications 3
CHE	105	General College Chemistry I* 3
CHM	105	General College Chemistry Lab I 2
EST	160	Hydrolic Geology*3
EST		170
E	nvironr	nental Sampling Laboratory 2
Third	Semes	ter/Fall
COM	181	Basic Public Speaking*
	OR	
COM	252	Intro to Interpersonal Communications* 3
Social	Interac	tion*
EST		220
Р	ollution	of Aquatic Ecosystems 3
EST		230
A	quatic	Chemistry Lab 2
EST	240	Sources and Effects of Air Pollution 4
Techni	ical Ele	ctive (see list)
Fourt	h Some	ster/Snring

#### EST 250

Solid and	Hazardous	Waste Management	3

EST		260	
]	Environm	ental Alalysis Lab	2
EST	270	Environmental Law and Regulation	3
EST	280	Environmental Trends Seminar	1
Techr	nical Elec	tive	3
Herita	ige/Huma	nities	3
Total	Credits		66

## **Technical Electives**

PHY		151	
I	ntroduo	ction to Physics	
COE	199	Cooperative Education (Internship) 1	-3
EST	299	Selected Topics in EST 1	-3
STA	200	Statistics: A Force in Human Judgement 3	
CAD	100	Intro to Computer-Aided Design 3	
ACH		185	
C	Comput	er-Aided Drafting I 3	
GIS	110	Spatial Data Analysis 3	
GIS	120	Introduction to Geographic Information Systems	5
3	3		
CIS	234	Advanced Spreadsheet Applications 3	
ENG	203	Business Writing	
CHE	107	General College Chemistry II 3	
CHM	107	General College Chemistry Lab II 2	
GEO	210	Pollutions, Hazards, and Environmental Mngmt.	
3	3		
GLY	220	Principles of Physical Geology 4	
ECO	201	Principles of Economics I 3	
CE	211	Surveying 4	
Course	es not	on this list may be approved at the coordinator	's
discret	tion.		

## INFORMATION MANAGEMENT AND DESIGN

## With options in Computer Office Technologies, Graphic Design, Library Information Technology, and Web Design (formerly Office Systems)

The Information Management & Design program prepares students to work in an integrated workplace of people, processes, and technologies. In response to the challenging technology-based work environment, this program requires students to become proficient in using computer technology for multifaceted workplace productivity. The program combines cutting-edge computer applications courses with additional curriculum courses for an area of expertise that is chosen by the student. Graduates also complete general education courses in writing, oral communications, economics. heritage/humanities/foreign languages, science, and mathematics. Prior to graduation, students enjoy a supervised work experience, giving them the experience that is often invaluable to land the right job.

Students may choose from four options within the Information Management & Design program to specialize their degree. The Computer Office Technologies option prepares graduates to work in a multitasking environment utilizing skills in electronic commerce, web authoring, project management, workplace management, information management, and employing various industry-standard office applications. The Graphic Design option provides the concepts and skills needed to create and produce design projects such as brochures, flyers, newsletters, logos, product packaging, photo restorations and manipulations, multimedia presentations, simple illustrations, and web sites using industry-standard techniques and graphic design applications. The Web Design option provides the concepts and skills needed to create and produce web sites using industry-standard techniques using graphic and web design applications. The Web Design option graduates will have the ability to create and maintain professional sites and also be capable of working with other web professionals such as programmers, network administrators and database administrators as well as interfacing with management and clients. The Library and Information Technology option prepares graduates for paraprofessional library work.

Graduates may choose to sit for the Certified Administrative Professional Exam and/or the Microsoft Office User Specialist Exam for computer office applications certifications. Graduates from the Graphic Design option would be prepared to sit for Adobe Certified Expert Exam. The Web Design option graduates would be qualified to sit for three of the five parts of the Certified Internet Webmaster (CIW) certification exam. The Library and Information Technology option courses may be used to meet Kentucky public library certification requirements.

Examples of Career in Information Management & Design:

- Web Designer
- Marketing Coordinator
- Executive/Administrative Assistants
- Information Coordinator
- Workplace Manager
- Web Design Technician
- Graphic Design Manager (or Coordinator)
- Production Artist
- Graphic Production Manager (or Coordinator)
- Graphic Technician
- Media Specialist
- Project Manager
- Library paraprofessional

## Core

IMD	100	Introduction to Information Systems	
IMD	120	Introduction to the Internet1	
	OR		
IMD	132	Introduction to Web Page Editors(1)	
IMD	126	Introduction to Desktop Publishing3	
IMD	130	Introduction to Web Pages2	
IMD	150	Effective Presentations	
IMD	210	Integrated Information Processing	
IMD	235	Advanced Word Processing	
IMD	275	Workplace Management	
COE	199	Cooperative Education or	
	OR		
IMD	271	Office Internship(3)	
ENG	101	Writing I *	
ENG	102	Writing II *	
Econor	nics Cou	ırse	
Heritag	ge/Huma	nities/Foreign Language Course *	
Mather	matics C	ourse *	
Oral C	Oral Communications Course *		
Science Course * <u>3</u>			

## Subtotal

45

\* General Education Course

## Computer Office Technologies Option

		Subtota	1
Compu	iter Offi	ce Technologies Option Courses	<u>9</u>
Account	nting Co	urse	3-4
IMD	220	Administrative Office Simulations	3
IMD	215	Administrative Office Procedures	3
IMD	118	Document Processing	3

## 21-22

## **Graphic Design Option**

•			Subtotal	
Graphic !	Design	Option Courses		. <u>6</u>
IMD 2	280	Applied Graphic Design		. 3
IMD 2	227	Vector and Raster Design		. 3
IMD 2	226	Advanced Desktop Publishing		. 3
IMD 2	224	Web Graphics Design		. 3
IMD	115	Introduction to Graphic Design		. 3

21

## Web Design Option

			Subtotal
Web I	Design (	Option Courses	
IMD	232	Professional Web Editors	
IMD	230	Advanced Web Design	
IMD	225	Applied Web Graphics	
IMD	224	Web Graphics Design	
IMD	180	Intermediate Web Design	
IMD	160	Introduction to E-Commerce	

24

## Library Information Technology Option

Information Management and Design majors with the Library Information Technology Option choose 15 credit hours from the Library Information Technology Option Courses.

LIT	115	Introduction to Reference Services	
LIT	124	Library Administration	
LIT	243	Library Services for Children	
LIT	245	Library Services for Young Adults	
LIT	247	Library Services for Adults	
LIT	299	Selected Topics: LIT	(9)
		(May be repeated for up to 9 hours)	

## **Computer Office Technologies Option Electives**

IMD majors with the Computer Office Technologies Option choose 9 credit hours from the Computer Office Technologies Option Courses.

ACC	202	Managerial Uses of Accounting Info.	3
BE	120	Personal Finance	3
BE	160	Introduction to Business	3
BE	267	Introduction to Business Law	3
BE	274	Human Resource Management	3
BE	282	Principles of Marketing	3
BE	283	Principles of Management	3
BE	288	Self Management	3
CIS	230	Advanced Microcomputer Applications	3
CLA		131	
Ν	Aedical	Terminology from Greek & Latin	3
ECO	202	Principles of Economics II	3
ENG	203	Business Writing	3

IMD		226	
А	dvance	d Desktop Publishing	3
IMD		230	
А	dvanced	l Web Design	3
IMD	232	Professional Web Editors	3
IMD		276	
L	egal Of	fice Procedures	3
IMD		278	
Ν	fedical (	Office Procedures	3
IMD	299	Selected Topics: IMD	1-3
QT	101	Quality Management Principles	3
Social	Interact	ion Course +	3
Other	Comput	er Office Technologies courses approved by	
		Program Coordinator	1-3

## \*General Education Courses

+ Cannot be used to fulfill core requirement

## **Graphic Design Option Courses**

Information Management and Design majors with the Graphic Design Option choose 6 credit hours from the Graphic Design Option Courses.

			Subtotal	
		Program Coordinator	<u>1-</u>	3
Other	Graphi	c Design Courses Approved By		
		Program Coordinator	3	
Compu	ater Pro	ogramming Course Approved By		
ENG	203	Business Writing	3	
BE	282	Principles of Marketing	3	
IMD	230	Advanced Web Design	3	
IMD	225	Applied Web Graphics	3	
IMD	180	Intermediate Web Design	3	
IMD	118	Document Processing	3	

21

## Web Design Option Courses

Information Management and Design majors with the Web Design Option choose 6 credit hours from the Web Design Option Courses.

IMD	175	Web Usability Design	3
IMD	240	Animation for the Web	3
IMD	245	Multimedia for the Web	3
CIS	120	Program Design	3
CIS	140	JavaScript I: JavaScript and the Web.	3
CIS	150	Internet Technologies	3
Comp	uter Pro	ogramming Course Approved By	
		Program Coordinator	3
Other	Web D	esign Courses Approved By	
		Program Coordinator	<u>1-3</u>
			Total

60-69

## **NUCLEAR MEDICINE TECHNOLOGY**

The nuclear medicine technology program prepares the individual to become a nuclear medicine technologist. Nuclear medicine is the medical specialty that utilizes the nuclear properties of radioactive and stable nuclides to make diagnostic evaluation of the anatomic or physiologic conditions of the body and to provide therapy with unsealed radioactive sources. The skills of the nuclear medicine technologist complement those of the nuclear medicine physician and other professionals in the field. Nuclear medicine technologists have responsibilities in the following areas: (a) patient care and monitoring, (b) technical skills related to radiation safety, radiopharmacy, clinical instrumentation, diagnostic and therapeutic procedures, quality control, and computers, and (c) administrative functions related to supplies and equipment, documentation of operations related to disposition of radioactive materials, quality control data, and patient records.

The nuclear medicine technology program is a selective admission program. A student must earn a grade of C or better in the prerequisite and concurrent mathematics and science courses to be admitted to and to remain enrolled in the program. Also, a student must earn a grade of C or better in each of the nuclear medicine technology courses to be retained in the program. After graduation from the program, the individual is eligible to write either the Nuclear Medicine Technology Certification Board (NMTCB) or the American Registry of Radiologic Technologists (ARRT) nuclear medicine technology examination to earn credentials. Please see the guidelines for the selective admission requirements to the nuclear medicine technology program, page 64.

For more information, visit the Nuclear Medicine Technology Web site at <u>www.ky.edu/LCC/NMT</u>.

## First Year

First		Summer	Session
Credi	ts		
ENG	101	Writing I*	3
BSL	110	Human Anatomy and Physiology I*	<u>4</u>

7

## Second Summer Session

MA	109	College Algebra*	3
BSL	111	Human Anatomy and Physiology II*	4

7

## **Fall Semester**

CHE	104	Introductory General Chemistry	3
ENG	102	Writing II*	3
Compu	iter Lit	eracy Course	1-3
NMT		140	
N	luclear	Medicine Technology I	5

## 12 - 14

## **Spring Semester**

CHE	106	Intro to Inorganic, Organic & Biochemistry*.	4
PH	172	Physics for the Health Sciences	2
NMT		150	
N	uclear N	Iedicine Technology II	5

11

## Second Year

## First Summer Session

NM	Г 230			
	Nuclear Medicine	Technology II	Ιθ	6

6		
Fall Seme	ster	
NMT	240	
Nuclea	ar Medicine Technology IV	7
Oral Comm	unication Course*	3
Heritage/Hu	Imanities Course*	<u>3</u>
13		
Spring Se	mester	
NMT	280	
Nuclea	ar Medicine Technology V	8
PY 110	General Psychology*	3
Elective Co	urse(s)	1-3

12 - 14

38 - 72

This curriculum requires course attendance in the summer session \*General Education Course

Total

## **NURSING**

The Associate Degree Nursing Curriculum offered by the Lexington Community College is accredited by the National League for Nursing Accrediting Commission (61 Broadway, New York, New York 10006, (212) 363-5555). and approved by the Kentucky Board of Nursing. The curriculum combines general education and nursing education. Classroom lectures are held at the college and nursing faculty direct the learning of nursing practice in a variety of community settings. Classroom instruction is closely correlated with selected experiences in the health care facilities. Transportation to the facilities is the responsibility of each student.

Preference in admission to the program will be given to persons who have completed all admission requirements prior to February 15.

The program prepares graduates to write the National Council Licensure Examination to become registered nurses, who are eligible to work in beginning staff level positions. The beginning registered nurse prepared at the Associate Degree level has the responsibility of performing nursing functions with clients who are under the supervision of a physician, assists in the assessment and planning of the day-to-day care of clients, evaluates the client's physical and emotional reactions to therapy and may supervise other workers in nursing care. Employment is usually in hospitals, nursing homes, extended care facilities, physician's offices, clinics, and public health agencies. Please see the guidelines for the selective admission requirements to the Associate Degree Nursing Program, page 66.

For more information, visit the Nursing program Web site at <u>www.uky.edu/LCC/NSG</u>.

## First Year

Sumr	Sessions		
Credi	its		
Mathe	matics	Course*	
PY	110	General Psychology* or	
PSY	100	Introduction to Psychology*	(4)
BSL	110	Human Anatomy & Physiology I*	4
ENG	101	Writing I*	<u>3</u>
			13
- 14			
Fall S	Semest	er	
NSG	115	Nursing I	9
BSL	111	Human Anatomy & Physiology II*	4
PSY	223	Developmental Psychology*	3
Comp	uter Li	teracy	<u>1-3</u>
17-19			
Sprin	ig Sem	ester	
NSG	125	Nursing II	2
NSG	235	Nursing III	4
NSG	245	Nursing IV	4
ENG	102	Writing II*	

13

## Second Year

Fall	Semeste	r	
NSG	255	Nursing V	9
BSL	212	Medical Microbiology*	4
Oral	Commun	ication*	3

16

## **Spring Semester**

NSG	265	Nursing VI	9
Herita	ige/Huma	anities Course*	3
Electi	ve Cours	se(s)	1-3

13 - 15

## 71 - 74

\*General Education Course

-A letter grade of "C" or higher is required for each nursing course, each biological/physical science course, and each math course.

Total

-Each course must be taken prior to or concurrent with the semester sequence in which the student is enrolled in Nursing.

-Successful completion of each course in each semester is required before one may progress to the next semester of the program.

-Failure to complete the delineated sequencing of the courses and curriculum will result in withdrawal from the program.

-Credits earned in biological, social, behavioral, and physical sciences that are 6 years or older will be evaluated on an individual basis and may require a special examination to update concepts.

The Nursing Program at Lexington Community College requires that PY 110 or PSY 100, Math, ENG 101, and BSL 110 be successfully completed prior to beginning NSG 115.

## **RADIOGRAPHY**

This program prepares the graduate to take an active role in the clinical setting of diagnostic imaging. Graduates of the radiography program have an integral role in diagnostic and therapeutic services within the health care industry. The curriculum is comprised of specialized courses in radiography, basic sciences and general education. Emphasis in the radiography courses includes radiation physics, patient care, positioning, technical factors, pathology, and radiation protection. Students enrolled in the radiography program must achieve a minimum grade of "C" in each radiography course. Upon completion of the program, the graduate is eligible to apply to write the examination for registration as a radiographer by the American Registry of Radiologic Technologists.

Radiographers interested in advanced credit in the Radiography Program should contact the program coordinator or the admissions office.

Please see the admission Guidelines for Health Programs listed on page 67, or visit the Radiography program Web site at: www.uky.edu/LCC/RAD.

## **Summer Session I**

BSL 11	10	Anatomy & Physiology I*	<u>4</u>
4			Total
Summ BSL 1	er Sess 11	sion II Anatomy & Physiology II	<u>4</u> Total
4			
Fall S	emeste	r	
RAD	100	Radiography I	10
ENG	101	Writing I*	3
MA		109	
С	ollege A	Ilgebra*	<u>3</u> Total
16			
Spring	g Seme	ster	
RAD	110	Radiography II	10
ENG	102	Writing II*	3
РНҮ	172	Physics for Health Sciences	<u>2</u> Total
15			Total
Summ	er Ses	sion I	
RAD	200	Radiography III	<u>4</u> Total
4			
Summ	er Sess	sion II	
RAD	205	Radiography IV	<u>3</u> Total
3			10181

**Fall Semester** 

RAD	210	Radiography V	9
PY	110	General Psychology*	3
Comp	uter Lite	eracy	<u>1-3</u>
		Tota	1

## 12

Sprin	g Sen	nester		
RAD	220	Radiography VI		9
Herita	ge/Hur	nanities/Foreign Language Course*		3-4
Oral C	Commu	nications Course*		<u>3</u>
			Subtotal	

Total

Hours

## 15-16

74-77

\*General Education Course

-CPR certificate must be obtained prior to enrolling in RAD 100 and certification must be kept current throughout the program. -The Radiography Program at LCC requires that BSL 110 and

111 be successfully completed prior to beginning of RAD 100.

*-Prior to enrollment in RAD 100, each student must show evidence of UK Health Services compliance.* 

-This curriculum requires course attendance in both summer sessions.

## ADVANCED IMAGING IN RADIOGRAPHY

Advanced Imaging in Radiography focuses on the areas of Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) in the Radiological Sciences. A combination of clinical and classroom instruction prepares the technologist to work in the areas of CT and MRI in the healthcare setting and to sit for the Advanced Board Exams given by the American Registry of Radiologic Technologists. These courses are offered for technologists who are currently registered by the American Registry of Radiologic Technologists in Radiography or by the Nuclear Medicine Technology Certification Board in Nuclear Medicine, or students who have completed one year and are currently enrolled in an accredited radiography or nuclear medicine program, or by consent of the instructor. The core curriculum courses are intended to provide the student with an over-all knowledge of advanced patient care and sectional anatomy. The CT and MRI options focus on the physics, instrumentation and imaging techniques of these modalities. The student may choose CT or MRI or both. Although these courses are organized in a hierarchical pattern, depending on the entry-level knowledge and the needs of the student, they may be taken out of sequence with consent of the instructor. Individuals interested in these courses should contact the Advanced Imaging Coordinator at (859) 257-4872, ext. 4100.

## Core

RAD	230	
Sectional	Anatomy for Advanced Imaging	
RAD	240	
Advanced	Patient Care	

## **Computed Tomography Option**

RAD	250
C	omputed Tomography Physics and
	Instrumentation
RAD	260
C	omputed Tomography Imaging Technology3
RAD	270
C	omputed Tomography Clinical Imaging
	Seminars

## **Magnetic Resonance Imaging Option**

RAD	255
Magnetic	Resonance Physics and
	Instrumentation
RAD	265
Magnetic	Resonance Imaging Technology
RAD	275
Magnetic	Resonance Imaging Clinical
	Seminars

## **RESPIRATORY CARE**

This program prepares competent practitioners who engage in the prevention, diagnosis and management of cardiopulmonary disorders. The curriculum includes intensive course work in the supporting sciences and general education areas. Classroom instruction is supplemented with learning experiences in the campus laboratory and in area hospitals. Students enrolled in the Respiratory Care Program are required to achieve a minimum grade of C in each Respiratory Care course, BSL 110 and BSL 111 Human Anatomy and Physiology I & II, and the math requirement.

Although hospitals employ the majority of respiratory therapists, other employers include home care providers, medical clinics, nursing homes and industry. Graduates are qualified to take the national board examination in Respiratory Therapy in order to receive the Certified Respiratory Therapist (C.R.T.) and credentials. Please see the guidelines for the selective admission requirements to the Respiratory Care program, page 69.

For more information, visit the Respiratory Care program Web site at <u>www.uky.edu/LCC/RCP</u>.

## First Year

Summ	er I		
MAH	151	Applied Mathematics* or	3
MA	109	College Algebra*	(3)
BSL	110	Human Anatomy & Physiology I*	4

## 7 Summer

Sumn	ier II	
BSL	111	Human Anatomy & Physiology II*4
ENG	101	Writing I*3

## Fall

ENG	102	Writing II*	
BSL	212	Medical Microbiology* or	
BIO	208	Principles of Microbiology*	(3)
Herita	ge/Hun	nanities/Foreign Language*	
Oral C	Commu	nications Course*	3

# 12-14

#### Spring RCP 110 Cardiopulmonary Anatomy & Physiology ..... 3 RCP 120 Fundamentals of Respiratory Care...... 4 Respiratory Care Practice I......1 RCP 121 Cardiopulmonary Pharmacology ......2 RCP 130 PY 110

			13
Sumn	ier I		
RCP	131	Respiratory Care Practice II	. 2
RCP	140	Cardiopulmonary Evaluation	. 2

			4
Summ	er II		
RCP	141	Respiratory Care Practice III	2
RCP	150	Intro to Mechanical Ventilation	2

#### 

## 14

## Spring

RCP	230	Preventive & Long-term Respiratory Care 2		
RCP	231	Respiratory Care Practice V 4		
RCP	240	Advanced Cardiopulmonary Evaluation		
RCP	250	Advanced Cardiac Life Support		
RCP	260	Respiratory Care Seminar1		

75

12

73-

Total

\*General Education Course

- -This curriculum requires course attendance in the summer session.
- -A letter grade of "C" or higher is required for each Respiratory Care course, BSL 110, BSL 111, and the course used to satisfy the math requirement.
- -The Respiratory Care Program at Lexington Community College requires that MAH 151 or MA 109, BSL 110 & BSL 111 be successfully completed prior to beginning RCP 110, RCP 120, RCP 121, and RCP 130.

## -A valid Health Care Provider CPR card must be obtained prior to enrolling in RCP 121 and must be kept current throughout the program.