CURRICULA

Note: The following is the 2004-2005 program information. In some cases, new information has been added in parentheses, so that you can find courses in the Schedule of Classes.

ARCHITECTURAL TECHNOLOGY

The Architectural Technology program provides instruction in the concepts and skills required for careers in architectural and related professions involved in designing for the built environment. At the core of the curriculum are a series of architectural studios where students prepare construction documents. The series begins with a study of residential construction and culminates with commercial. Emphasis is placed on quality graphic communication, the development of design skills and a thorough understanding of a variety of construction types. Complementing the studio sequence are courses designed to provide instruction in building materials, structures, mechanical/electrical systems, professional practices, and architectural theory and history. Electives in the program allow students to customize their education to fit their interests. Given the wide range of topics covered in the curriculum, graduates are prepared to find employment in architectural and related professional offices including positions in construction estimating, civil engineering, structural engineering, mechanical/electrical engineering, construction management, computer-aided drafting, building code enforcement, specification writing, urban planning, historic preservation, contracting, sub-contracting, and building material sales and marketing.

For more information, visit the Architectural Technology Web site at www.bluegrass.kctcs.edu/LCC/ARCH.

Course			Credits
ACH	100	Construction Documents I	3
ACH	110	Survey of the Architectural Profession	1
ACH	120	Theory and History of Architecture I	3
ACH	150	Construction Documents II	3
ACH	160	Building Materials and Construction I	3
ACH	161	Building Materials and Construction II	3
ACH	170	Theory and History of Architecture II	3
ACH	175	Introduction to Systems	3
ACH	185	Computer –Aided Drafting I	(3)
ACH	200	Construction Documents III	3
ACH	225	Structures	3
ACH	250	Construction Documents IV	3
ACH	260	Office Practice	3
ACH	275	Mechanical and Electrical Systems	3
Technical Courses**			8-9
ENG	101	Writing I*	3
ENG	102	Writing II*	3
MAH	125	Technical Mathematics*	3
Heritage/Humanities/Foreign Language Course*			3
Oral Communication Course*			3
Biological/Physical Science Course*			3
Social Interaction Course*			3
		Total	**69 - 70**

** *Technical Courses*
**Satisfies General Education requirement for AAS degree*

Technical Courses

ACH	180	Selected Topics in Arch Technology: (Topic)	1-3
ACH	194	Visual Composition	3
ACH	285	Computer-Aided Drafting II	3
ACH	290	Building Codes I	3
ACH	291	Construction Management	3
ACH	292	Building Codes II	3
ACH	293	Presentation Techniques	3
ACH	294	Specification Writing	3
ACH	297	Estimating Techniques	3
ACH	298	Computer 3D Modeling	3
COE	199	Cooperative Education: Arch Tech	1-3

BUSINESS MANAGEMENT AND MARKETING

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

The Business Management and Marketing 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: equine business management, management, marketing and retailing, 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 **Equine Business Management option** provides the knowledge and skills students need to take advantage of various employment opportunities within the horse industry.

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 **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 www.bluegrass.kctcs.edu/LCC/BUS.

Core

Course			Credits
MGT	160	Introduction to Business	3
MGT	267	Introduction to Business Law	3
	OR		
RE	230	Real Estate Law	(3)
MKT	282	Principles of Marketing	3
MGT	283	Principles of Management	3
ACC	201	Financial Accounting I	3
ACC	202	Managerial Uses of Accounting Information	3
CIT	105	Introduction to Computing	3
	AND		
CIT	130	Microcomputer Applications	3
	OR		
IMD	100	Introduction to Information Systems	(3)
	AND		
IMD	210	Integrated 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
		AND	
MAH	121	Mathematics for Business	3
		OR any two of the following:	
(MAH 121, MA 109, MA 123, MA 162, MA 113 or STA 291)			
QT	101	Quality Management Principles	3
Humanities/Foreign Language Course*			3
Science Course *			3
		Subtotal	54

**Satisfies General Education requirement for AAS degree*

Management Option

Required:

MGT	200	Small Business Management	3
	OR		
MGT	256	Operations Management	(3)
MGT	274	Human Resource Management	3
	OR		
MGT	287	Supervisory Management	(3)
MGT	284	Applied Management Skills	3

Choose a total of 6 hours from the following:

MGT	120	Personal Finance	3
MGT	288	Self Management	3
MKT	291	Retail Management	3
BE	298	Principles of Statistical Process Control	3
MGT	299	Selected Topics in Management: (Option Topic)	1-3
MKT	299	Selected Topics in Marketing: (Option Topic)	1-3
IMD	275	Workplace Management	3
ACT	277	Managerial Accounting	3
ACT	280	Cost Accounting	3
COE	199	Cooperative Education: Business Technology	1-4
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	3
		Subtotal	**15**
		Total	**69**

Marketing and Retailing Option

Required:

MKT	155	Personal Selling	3
MKT	290	Advertising and Promotion	3
MKT	291	Retail Management	3
MKT	293	Buying and Merchandising	3

Choose 3 hours from the following:

MGT120		Personal Finance	3
MGT200		Small Business Management	3
MGT288		Self Management	3
MKT	299	Selected Topics in Business Management and Marketing (Option Topic)	1-3
COE	199	Cooperative Education: Business Management and Marketing	1-4
ECO	202	Principles of Economics II	3
		Subtotal	**15**
		Total	**69**

Real Estate Management Option

Required:

RE	100	Real Estate Principles I	3
RE	121	Appraising	3
RE	225	Real Estate Finance	3

Choose 6 hours 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 Management and Marketing	1-4
		Subtotal	**15**
		Total	**69**

Equine Business Management Option

Required:

EQM100	Introduction to Equine Studies	3
EQM120	Introduction to Commercial Breeding Practices	4
EQM140	Equine Business Management I	2
EQM240	Equine Business Management II	2
EQM242	Equine Law	3
EQM246	Current Trends in the Equine Industry	1
EQM250	Equine Practicum	3
	Subtotal	**18**
	Total	**72**

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; construction 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 Web site: http://www.bluegrass.kctcs.edu/LCC/ET/CET.

Required

ENG	101	Writing I*	3
ENG	102	Writing II*	3
CAD	100	Introduction to Computer-Aided Design	3
	OR		
ACH	185	Computer-Aided Drafting I	3
Heritage/Humanities/Foreign Language Course*			3
MA	109	College Algebra*	3
Oral Communication Course*			3
PHY	211	General Physics*	5
Social Interaction Course*			3

Core

ACH	160	Building Materials and Construction I	3
ACH	225	Structures	3
CE	211	Surveying	4
CET	150	Civil Engineering Graphics	3
CET	200	Civil Engineering Materials	3
CET	210	Structural Analysis and Design	3
CET	220	Intermediate Surveying	4
CET	260	Hydrology and Drainage	3
MA	112	Trigonometry	2
Elective			3
Technical Electives			9
		Subtotal	**40**
		Total	**67**

Technical Electives**

ACH	100	Construction Documents I	3
ACH	150	Construction Documents II	3
ACH	161	Building Materials and Construction II	3
ACH	285	Computer-Aided Drafting II	3
ACH	290	Building Codes I	3
ACH	291	Construction Management	3
ACH	292	Building Codes II	3
ACH	294	Specification Writing	3
ACH	297	Estimating Techniques	3
ACH	298	Computer 3D Modeling	3
CAD	200	Intermediate Computer-Aided Design	3
CET	280	Highway Design	3
CET	295	Independent Problems	1-4
COE	199	Cooperative Education: CET	3
GIS	110	Spatial Data Analysis and Map Interpretation	3
GIS	120	Introduction to Geographic Information Systems	3
GIS	210	Advanced Topics in GIS	3
GLY	220	Principles of Physical Geology	4

** Satisfies General Education requirement for AAS degree*
***Other course(s) approved by program coordinator*

COMPUTER & INFORMATION TECHNOLOGIES

With options in Applications, Internet Technologies, Network Technology, and Programming

This program includes an Applications option, an Internet Technologies 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 Internet Technologies option prepares students to design, program, and maintain Internet-based services. With an emphasis on client and server programming, this option prepares students for positions developing and maintaining interactive web sites.

The Network Technology option provides the concepts and skills needed to set up, maintain, and expand networked computer systems. Employment opportunities include entry level 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 Technologies program has a selective admissions policy. In order to be considered for admission to the Computer & Information Technologies program, each applicant must be admitted to Bluegrass Community and Technical College and file a letter of intent with the Computer & Information Technologies Program Coordinator. For admission in the summer or fall semester classes, the letter of intent must be filed by March 1 and for the spring semester class by October 1. Exceptions to the March 1 and October 1 dates can only be granted by the President of Bluegrass Community and Technical College after consultation with the Computer & Information Technologies Program Coordinator.

The standard letter or intent may be found at http://www.bluegrass.kctcs.edu/LCC/CIS/LetterofIntent.pdf.

To be considered for admission to the program, a student must also:

1. Successfully complete the pre-major course requirements (CIT105, CIT110, CIT120, and CIT130). "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. Meet the prerequisite for the required math course (MA109) or successfully complete the required math course or a higher level math course.

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

Core

General Education

ENG	101	Writing I*	3
ENG	102	Writing II*	3
MA	109	College Algebra*	3
Heritage/Humanities/Foreign Language Course*			3
Oral Communication Course*			3
Science Course *			3
Social Interaction Course*			3

Premajor Requirements

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

Major Requirements

CIT	150	Internet Technologies	3
CIT	160	Data Communications and Networking	4
ETE	134	Computer Hardware Maintenance	3
Approved Level I Programming Language			3
Approved Technical Course(s)			3
		Subtotal	**49-50**

Applications Option

CIT	170	Introduction to Database Design	3
CIT	220	Systems Analysis and Design	3
CIT	290	Information Systems Design and Implementation	3
Approved Applications Specialization			9
Approved Management Course			3
Approved Accounting Course			3
		Subtotal	**24**

Internet Technologies Option

IMD	175	Web Usability Design*	3
		OR	
IMD	180	Intermediate Web Design*	(3)
CIT	253	Data Driven Web Pages*	3
Approved Level 1 Web Programming Language*			3
Approved Level II Web Programming Language*			3
CIT	170	Database Design*	3
CIT	220	Systems Analysis and Design*	3
CIT	290	Information Systems Design & Implementation*	3
CIT	294	Seminar in Web Technologies*	3

Subtotal **24**

Note: Students pursuing the Internet Technologies Option must take CIT171 and either CIT140 or CIT149.

** Satisfies General Education requirement for degree*

Network Technology Option

CIT 260 Network Hardware Installation and Troubleshooting..... 3
CIT 269 Internet Protocols..... 3
CIT 292 Designing Network Solutions..... 3
Approved Level I Network Technology Specialization..... 6
Approved Level I or II Network Technology Specialization... 6
Approved Scripting Language Course..... 3

Subtotal **24**

Programming Option

CIT 170 Introduction to Database Design..... . 3
CIT 220 Systems Analysis and Design..... 3
CIT 290 Information Systems Design and Implementation..... 3
Approved Level I Programming Language (beyond the Core). 3
Approved Level II Programming Language..... 3-4
Approved Level I or II Programming Language..... 3-4
Approved Management Course..... 3
Approved Accounting Course..... 3

Subtotal **24-25**
Total **73-75**

Course Choice Lists

Approved Accounting Courses**

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

Approved Management Courses**

MGT 200 Small Business Management..... 3
MGT 283 Principles of Management..... 3
BE 287 Supervisory Management 3
MKT 291 Retail Management..... 3
QT 101 Quality Management Principles..... 3

Approved Applications Specializations**

Productivity Software Specialization
IMD 235 Advanced Word Processing..... 3
CIT 234 Advanced Spreadsheet Applications..... 3
CIT 236 Advanced Database Applications..... 3

Database Developer Specialization
CIT 171 SQL I..... 3
CIT 271 SQL II..... 3
CIT 236 Advanced Database Applications..... 3

Geographic Information Systems
GIS 110 Spatial Data Analysis and Map Interpretation……..3
GIS 120 Introduction to Geographic Information Systems….3
GIS 210 Advanced Geographic Information Systems…….3

Approved Level I Network Technology Specializations**

Microsoft Windows Specialization
CIT 211 Microsoft Windows Client Operating Systems: (Topic)..... 3
AND
CIT 212 Microsoft Windows Server Operating Systems: (Topic)..... …….3

Unix Specialization
CIT 217 Unix Administration..... …….3
AND
CIT 218 Advanced Unix Administration..... ……3

CISCO Specialization
CIT 281 Routing and Switching..... ……3
AND
CIT 282 Advanced Routing and Switching..... …..3

NOTE: Students pursuing the Cisco Specialization should also take CIT *283, Wide Area Network Management and Design, in order to complete their Cisco Certified Network Administrator (CCNA) preparation.*

Approved Level II Network Technology Specialization**

Advanced Microsoft Windows Specialization
CIT 261 Microsoft Windows Directory Services Administration..... 3
AND
CIT 262 Microsoft Windows Network Infrastructure.... 3

Approved Level I Programming Languages**

CIT 140 JavaScript I: JavaScript and the Web..... 3
CIT 141 VBScript I: VBScript Fundamentals ……3
CIT 143 COBOL I..... 3
CIT 145 Perl I: Perl Fundamentals..... 3
CIT 148 Visual Basic I..... 3
CIT 149 Java I: Java Fundamentals..... 3
CIT 171 SQL I..... 3
CS 115 Introduction to Computer Programming..... 3

Approved Level II Programming Languages**

CIT 243 COBOL II..... 3
CIT 245 Perl II: Perl and the Web..... 3
CIT 248 Visual Basic II..... 3
CIT 249 Java II: Java and the Web..... 3
CIT 271 SQL II..... 3
CS 215 Introduction to Program Design, Abstraction, and Problem Solving..... 4
CS 216 Introduction to Software Engineering..... 3

Approved Scripting Languages**

CIT 140 JavaScript I: JavaScript and the Web..... 3
CIT 141 VBScript I: VBScript Fundamentals ……3
CIT 145 Perl I: Perl Fundamentals..... 3

Approved Technical Courses**

ACH 100 Construction Documents I..... 3
ACH 185 Computer-Aided Drafting I..... 3
CAD 100 Introduction to Computer-Aided Design..... 3
COE 199 Cooperative Education: CIT..... 3
ETE 112 Digital Logic Circuits 4
ETE 256 Microprocessor Fundamentals..... 4
GIS 120 Intro to Geographic Information Systems……..3
IMD 126 Introduction to Desktop Publishing 3
IMD 226 Advanced Desktop Publishing..... 3
Additional CIT Course(s) (EXCEPT CIT 103)..... 1-3
Additional CS Course(s) (EXCEPT CS 100 and CS 101)..... 3-4
Approved Accounting Courses..... 3

*** Or other courses approved by* Computer & Information Technologies *Program Coordinator*

Note:

- *Students may not use one course to fulfill multiple requirements.*
- *Students may choose* CIT *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* CIT *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 students 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. For more information about admission to the Dental Hygiene Program, please see the guidelines for the selective admission requirements on page 62 or visit the Dental Hygiene program Web site at www.bluegrass.kctcs.edu/LCC/DHY.

First Year

Summer Sessions			**Credits**
First Six Weeks			
BSL	110	Human Anatomy and Physiology I*	4
Second Six Weeks			
BSL	111	Human Anatomy and Physiology II	4
			8
Fall Semester			
DHY	120	Dental Hygiene I	5
DHY	121	Oral Biology I	3
ENG	101	Writing I*	3
BSL	214	Medical Microbiology **or**	4
BIO	208	Principles of Microbiology	(3)
			14-15
Spring Semester			
DHY	130	Dental Hygiene II	4
DHY	131	Oral Biology II	5
DHY	135	Dental Radiology	3
DHY	136	Periodontics for the Dental Hygienist I	2
ENG	102	Writing II*	3
			17

Second Year

Summer Sessions			**Credits**
PY	110	General Psychology*	3
Oral Communication Course*			3
NFS	101	Human Nutrition and Wellness	3
			9
Fall Semester			
DHY	220	Dental Hygiene III	4
DHY	222	Special Needs Patients	3
DHY	224	Dental Materials	2
DHY	226	Periodontics for the Dental Hygienist II	2
DHY	229	Local Anesthesia (elective)	(2)
SOC	101	Introductory Sociology	3
			14-16
Spring Semester			
DHY	230	Dental Hygiene IV	4
DHY	235	Principles of Practice	1
DHY	238	Community Dental Health	4
Heritage/Humanities/Foreign Language Course*			3-4
Mathematics Course*			2-4
			14-17
		Total Credits	**76 - 82**

** Satisfies General Education requirement for AAS degree*
The Dental Hygiene Program at Bluegrass Community and Technical 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 GPA of 2.0 in the Dental Laboratory Technology program. Upon completion, graduates are eligible to take the National Board for Certification Recognized Graduate Examination and the Certified Dental Technician exam.

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.

For more information, visit the Dental laboratory Technology program Web site at www.bluegrass.kctcs.edu/LCC/DLT.

First Year

First Semester			
ENG	101	Writing I*	3
Social Interaction Course*			3
DN	101	Dental Morphology	2
DN	111	Dental Materials I	2
DN	121	Complete Dentures I	2
DN	131	Removable Partial Dentures I	2
DN	151	Fixed Prosthodontics I	2
			16
Second Semester			
ENG	102	Writing II*	3
Heritage/Humanities/Foreign Language Course*			3
DN	112	Dental Materials II	2
DN	122	Complete Dentures II	2
DN	132	Removable Partial Dentures II	2
DN	142	Occlusion	2
DN	152	Fixed Prosthodontics II	2
			16

Second Year

First Semester			
Oral Communication Course*			3
Mathematics Course*			3
DN	261	Applied Lab Techniques	8

DN	281	Orthodontic Lab Techniques	2
			16

Second Semester

Science Course*			3
DN	262	Advanced Specialty Laboratory Techniques	8
DN	291	Dental Laboratory Management, History and Ethics	2
			13
		TOTAL	**61**

** Satisfies General Education requirement for AAS degree*

EARLY CHILDHOOD EDUCATION

(Beginning Fall 2005 this will be *Interdisciplinary Early Childhood Education.* For more information please visit www.bluegrass.kctcs.edu/LCC/IECE/ECEtoIECE_faq.html for more up-to-date information and a table of equivalencies)

The 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 complete the program a student must complete all core courses, as well as the general education component. Students enrolled must achieve a minimum grade of "C" in each required Early Childhood Education course (EC and FAM prefixes) to qualify for graduation.

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. For more information, visit the Early Childhood Education web site at www.bluegrass.kctcs.edu/LCC/ECE.

Curriculum Outline

1st Year Summer I (6-7)

ENG	101	Writing I*	3
PY	110	General Psychology	3
	OR		
PSY	100	Intro to Psychology*	(4)

1st Year Summer II (6)

ENG	102	Writing II*	3
COM	181	Basic Public Speaking*	3
	OR		
COM	252	Intro to Interpersonal Communications*	3

1st Year Fall (15)

Elective			3
MA	109	College Algebra*	3
	OR		
MA	111	Intro to Contemporary Math	3
HIS	108	History of the U.S. through 1865*	3
SOC	101	Introductory Sociology	3
EC	120	Introduction to Early Childhood Education	3

1st Year Spring (12)

BIO	102	Human Ecology*	3
FAM	255	Child Development	3
EC	130	Observing Young Children	3
EC	170	Learning Activities and Materials	3

2nd Year Fall (13)

HIS	109	History of the U.S. since 1865	3
	OR		
BIO	103	Basic Ideas of Biology	(3)
EDP	202	Human Development and Learning	3
EC	200	Curriculum Development for Early Childhood Education	4
FAM	256	Guidance Strategies for Working with Young Children	3

2nd Year Spring (12)

NFS	101	Human Nutrition and Wellness	3
FAM	252	Introduction to Family Science	3
EC	220	Children with Exceptionalities	3
EC	260	Practicum in Early Childhood Education	3
		Total Hours	**64-65**

** Satisfies General Education requirement for AAS degree.*
Comparable General Education courses *may* be substituted to fulfill these categories.
*** Students with a current Child Development Associate (CDA) Credential earn credit. Check with the Registrar for information.*

ELECTRICAL ENGINEERING TECHNOLOGY

Engineering Technicians combine engineering knowledge and methods with technical applications to solve real world problems. The curriculum includes specialized and related science courses and course work in general education. The technical curriculum includes: the fundamentals of electricity, electronics, digital systems, microprocessors, and control systems. This program prepares graduates to find rewarding careers in many areas including: technical sales, electronics testing, electronics design, machine controls, and manufacturing maintenance. The technical background combined with the general education courses allows students to communicate and think on a higher level, making them ideal for management and applied design positions.

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

ENG	101	Writing I*	3
ENG	102	Writing II*	3
Oral Communication Course*			3
Social Interaction Course*			3
Heritage/Humanities/Foreign Language Course*			3
MA	109	College Algebra*	3
	AND		
MA	112	Trigonometry	2
	OR		
MA	110	Analytical Geometry and Trig	(4)
MA	123	Elementary Calculus & its Applications	3
	OR		
MA	113	Calculus I	(4)
PHY	211	General Physics*	5

Core

			Credits
ETE	108	Practical Electricity	3
ETE	110	Electrical Circuits I	4

ETE	111	Electrical Circuits II	4
ETE	112	Digital Logic Circuits	4
ETE	241	Electronics I	4
ETE	253	Industrial Electronics	4
ETE	256	Microprocessor Fundamentals	4
ETE	262	Measurement and Instrumentation	4
Technical Courses			7
CAD	100	Intro to Computer-Aided Design	3
Coordinator Approved CS/CIS course			3
		Total	**71 - 74**

** Satisfies General Education requirement for AAS degree*

Technical Courses

CAD	200	Intermediate Computer-Aided Design.	3
COE	199	Cooperative Education: Engineering Tech…	1-4
ETE	134	Computer Hardware Maintenance	3
ETE	244	Electrical Machinery and Controls	4
ETE	250	Programmable Logic Controllers	4
ETE	251	Electronics II	4
ETE	254	(Electrical) Instrumentation and Measurements	4
ETE	290	Selected Topics in Engineering Technology: (Topic)	1-4
ETE	295	Independent Problems	1-6
MFG	265	Industrial Automation and Robotics	4
PHY	213	General Elementary Physics	5
Other course approved by Program Coordinator			3-4

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.bluegrass.kctcs.edu/LCC/EST.

Admissions Requirements

The following information has been taken from the Rules of the Senate of the University of Kentucky and is subject to change without notice. All applicants meeing the approprite academic requirments shall be considered equally for admission to Bluegrass Community and Technical College or to any academic program thereof regardless of economic or social satus, and without discrimination on the basis of race, color, religion, sex, marital status, beliefs, age, national origin, sexual orientation, or physical or mental disability.

In order to be admitted to the Environmental Science Technology (EST) Program, each student must be admittted to Bluegrass Community and Technical College.

In order to be admitted to the Environmental Science Technology Program, a student must:

1. Complete EST 150, EST 160, and MA 109 with a passing grade or transfer credit from an accredited institution for comparable courses (to be assessed by EST Coordinator) And
2. Attend a pre-admission conference with the EST Program coordinator or the coordinator's designee.

Curriculum Outline

First Semester/Fall

ENG	101	Writing I*	3
MA	109	College Algebra*	3
CIS	105	Intro to Computing	3
BIO	103	Basic Ideas of Biology*	3
BIO	111	Intro to Biology Lab	1
EST	150	Introductory Ecology.	4

Second Semester/Spring

ENG	102	Writing II*	3
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	Environmental Sampling Laboratory..	2

Third Semester/Fall

COM	181	Basic Public Speaking*	3
	OR		
COM	252	Intro to Interpersonal Communications*	(3)
Social Interaction Course*			3
EST	220	Pollution of Aquatic Ecosystems	3
EST	230	Aquatic Chemistry Lab	2
EST	240	Sources and Effects of Air Pollution	4
Technical Elective			3

Fourth Semester/Spring

EST	250	Solid and Hazardous Waste Management	3
EST	260	Environmental Analysis Lab	2
EST	270	Environmental Law and Regulation	3
EST	280	Environmental Trends Seminar	1
Technical Elective			3
Heritage/Humanities Course			3
Total Credits			**66**

Technical Electives

PHY	151	Introduction to Physics	3
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	Computer-Aided Drafting I	3
GIS	110	Spatial Data Analysis	3
GIS	120	Introduction to Geographic Information Systems	3
CIS	234	Advanced Spreadsheet Applications	3
ENG	203	Business Writing	3
CHE	107	General College Chemistry II	3
CHM	107	General College Chemistry Lab II	2
GEO	210	Pollutions, Hazards, and Environmental Mngmt.	3
GLY	220	Principles of Physical Geology	4
ECO	201	Principles of Economics I	3
CE	211	Surveying	4

Courses not on this list may be approved at the coordinator's discretion.

** Satisfies General Education requirement for AAS degree*

GEOGRAPHIC INFORMATION SYSTEMS TECHNOLOGY

Academic Certificate

A Geographic Information System (GIS) is a powerful combination of mapping technology and databases, that, when combined, may create an array of spatially arranged data on a map surface for detailed analysis. Once the domain of a few specialized government agencies and the military, GIS is now utilized by virtually every branch of the government and has become commonplace throughout the private sector. GIS may be employed for a stunning variety of applications: environmental, marketing, demographic and urban planning are just a few of the fields in which GIS is currently utilized.

All students enrolled at Bluegrass Community and Technical College are eligible to pursue the GIS Technology Certificate. There is no application to enroll in the certificate, but it is suggested that if you elect to pursue the certificate that you inform the coordinator of the GIS Certificate as well as your technical advisor and the chair of your technical degree program. The curriculum is tailored to those enrolled in the following technical degree programs: Architectural Technology, Civil Engineering, Computer Information Systems and Environmental Science Technology. The acquisition of a two-year technical degree coupled with a Certificate in GIS Technology will make a graduate more marketable in his/her respective field. Those pursuing a B.A. or B.S. degree in geography will also find the curriculum tailored to their respective degree program. The GIS Technology Certificate requires the completion of twenty-four (24) hours of coursework. Non-certificate seeking students are free to take courses in GIS. All students pursuing the certificate must take the following four core courses:

Core

CIS	105	Introduction to Computing	3
GIS	110	Spatial Data Analysis and Map Interpretation	3
GIS	120	Introduction to Geographic Information Systems	3
GIS	210	Advanced Geographic Information Systems	3

Students must complete one of the following related field course pairings listed below. The student may not complete the requirement by selecting courses from different pairs. It is highly recommended that the student select the course pairing that doubles as requirements for their technical degree (or pre-major requirement for the B.A./B.S. in geography)

Eligible Course Pairings for GIS Technology Certificate

- Earth's Physical Environment (GEO 130) *and/or* Pollution, Natural Hazards and Environmental Management (GEO 210) *and/or* Introduction to Planning (GEO 285)
- Fundamentals of Hydrological Geology (ENV 101) *and* Fundamentals of Solid Waste (ENV 203)
- Visual Basic I (CIS 148) *and* Visual Basic II (CIS 248)
- Introduction to Computer-Aided Design (CAD 100) *and* Intermediate Computer-Aided Design (CAD 200)
- Computer Aided Drafting I (ACH 185) *and* Computer Aided Drafting II (ACH 285) *or* Computer 3-D Modeling (ACH 298)
- Introduction to Surveying (CE 211) *and* Intermediate Surveying (CET 220)

Students may utilize an additional six-hour course pairing not listed above with prior written approval from the coordinator of the GIS Certificate.

Students must also take a minimum of six (6) hours of General Education courses in order to receive a certificate in GIS Technology from Bluegrass Community and Technical College, unless otherwise noted on their academic transcript(s).

Recommended Track for GIS Technology Certificate

Fall Semester I			
GIS	110	Spatial Data Analysis and Map Interpretation	3
CIS	105	Introduction to Computing	3
General Education Course			3
Spring Semester I			
GIS	120	Introduction to Geographic Information Systems	3
General Education Course			3
Course in related field (see above list)			3
Fall Semester II			
GIS	210	Advanced Geographic Information Systems	3
Course in related field (see above list)			3
		Total	**24**

INFORMATION MANAGEMENT AND DESIGN

With options in Computer Office Technologies, Graphic Design, Library Information Technology, and Web Design.

Certificate in Library Information Technology

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 industry-standards based courses to provide learning opportunities within the student's area of study. Graduates also complete general education courses in writing, oral communications, social interaction, heritage/ humanities/foreign languages, science, and mathematics. Prior to graduation, students participate in a supervised work experience, giving invaluable experience often necessary to secure a position within their chosen field.

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 Careers 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

For more information, visit the IMD web site at www.bluegrass.kctcs.edu/LCC/IMD

Core

IMD	100	Introduction to Information Systems	3
IMD	126	Introduction to Desktop Publishing	3
IMD	133	Beginning Web Design	2
IMD	150	Presentations	3
IMD	210	Microsoft Office Applicatons	3
IMD	235	Advanced Word Processing	3
IMD	270	Professional Practices	3
IMD	275	Workplace Management	3
COE	199	Cooperative Education or	3
	OR		
IMD	271	Office Internship	(3)
ENG	101	Writing I *	3
ENG	102	Writing II *	3
Social Interaction Course*			3
Heritage/Humanities/Foreign Language Course *			3
Mathematics Course *			3
Oral Communications Course *			3
Science Course *			3
		Subtotal	**48**

* *Satisfies General Education requirement for AAS degree*

Computer Office Technologies Option

IMD	118	Document Processing	3
IMD	212	Advanced Microsoft Office Applications	3
IMD	215	Administrative Office Procedures	3
IMD	220	Administrative Office Simulations	3
Accounting Course			3-4
Computer Office Technologies Option Courses			6
		Subtotal	**21**

Graphic Design Option

IMD	115	Introduction to Graphic Design	3
IMD	127	Vector Design with Illustrator	3
IMD	128	Raster Design with PhotoShop	3
IMD	185	Web Graphics Design	3
IMD	226	Advanced Desktop Publishing	3
IMD	280	Applied Graphic Design	3
Graphic Design Option Courses			6
		Subtotal	**24**

Library Information Technology Option

LIT	115	Introduction to Reference Services*	3
LIT	124	Library Administration	3
LIT	132	Library Technical Services*	3
LIT	243	Library Services for Children**	3
	OR		
LIT	245	Library Services for Young Adults**	(3)
	OR		
LIT	247	Library Services for Adults**	(3)
Library Information Technology Courses			12
		Subtotal	**24**

Academic Certificate in Library Information Technology

The certificate in Library Information Technology prepares students for paraprofessional jobs in libraries and particularly in Kentucky public libraries. Upon completion of the academic certificate, students will be able to: perform basic library reference services using print and online sources, plan and produce library services and programs for a selected group of library customers, describe the role of the public library in the community as an agency for information services, and perform readers advisory services and collection development analysis for a selected group of Kentucky authors or genres. Courses taken for the Certificate in Library Information Technology may be used also for the Associate of Applied Science degree in Information Management & Design, Library Information Technology option. All Library Information Technology courses are web-based distance courses.

For more information, see the Library Information Technology web site: http://www.bluegrass.kctcs.edu/LCC/LB/LIT

The Certificate in Library Information Technology requires 18 credit hours.

The required course is:

LIT 115 Introduction to Reference Services ……3

Students will select one course from each of the following groups to complete the certificate requirement of 18 credit hours.

1. Library Procedures

LIT 124 Library Administration 3
OR
LIT 132 Library Technical Services 3
OR
LIT 230 Web Publishing for Public Libraries 3

2. Library Services

LIT 243 Library Services for Children 3
OR
LIT 245 Library Services for Young Adults 3
OR
LIT 247 Library Services for Adults 3
OR
LIT 248 Library Services for Preschool Children 3
OR
LIT 280 Genealogy Services in Public Libraries..... 3

3. Library Information Technology Elective

LIT elective: any LIT course above LIT 115……..3

4. Kentucky Literature ***(out-of-state students may substitute any English literature course)***

LIT 200 Seminar in Kentucky Literature..... 3
OR
LIT 240 Appalachian Literature of Kentucky 3
OR
LIT 241 Literature of Central Kentucky..... 3
OR
LIT 242 Literature of Western Kentucky 3

5. General Education

ENG 101 Writing I 3
OR
ENG 102 Writing II 3
OR
HIS 108 History of the United States through 1865 3
OR
HIS 109 History of the United States since 865.....3
OR
HIS 240 History of Kentucky 3
Total 18

Web Design Option

IMD 180 Intermediate Web Design.....3
IMD 185 Web Graphics Design.....3
IMD 225 Applied Web Graphics.....3
IMD 230 Advanced Web Design.....3
IMD 232 Professional Web Editors.....3
IMD 240 Animation for the Web.....3
IMD 292 Portfolio Practicum: Web Design 3
Web Design Option Courses 3
Subtotal 24
Grand Total 69 -72

*** Select one of these three as a Required Program Course*

Computer Office Technologies Option Courses

IMD majors with the Computer Office Technologies Option choose 6 credit hours from the Computer Office Technologies Option Courses.

ACC 202 Managerial Uses of Accounting Info. 3
MGT 120 Personal Finance 3
MGT 267 Introduction to Business Law 3
MGT 274 Human Resource Management 3
MKT 282 Principles of Marketing.....3
MGT 283 Principles of Management.....3
MGT 288 Self Management.....3
CLA 131
Medical Terminology from Greek & Latin.....3
ECO 202 Principles of Economics II.....3
ENG 203 Business Writing 3
IMD 114 Information Literacy.....3
IMD 127 Vector Design with Adobe Illustrator.....3
IMD 128 Raster Design with Adobe PhotoShop.....3
IMD 175 Web Usability Design 3
IMD 180 Intermediate Web Design.....3
IMD 185 Web Graphics Design.....3
IMD 225 Applied Graphic Design.....3
IMD 226 Advanced Desktop Publishing.....3
IMD 230 Advanced Web Design.....3
IMD 232 Professional Web Editors.....3
IMD 240 Animation for the Web.....3
IMD 245 Multimedia for the Web 3
IMD 250 Digital Video Editing 3
IMD 276 Legal Office Procedures.....3
IMD 278 Medical Office Procedures.....3
IMD 299 Selected Topics: IMD.....1-3
QT 101 Quality Management Principles.....3
Social Interaction Course + ...3
Other Computer Office Technologies courses approved by
Program Coordinator.....1-3
Other Information Technology, Architectural, Business, Communication, Fine Arts or other Option Appropriate Courses Approved by Program Coordinator.....1-3

+ 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.

IMD 118 Document Processing.....3
IMD 180 Intermediate Web Design.....3
IMD 225 Applied Web Graphics.....3
IMD 230 Advanced Web Design.....3
IMD 232 Professional Web Editors.....3
IMD 240 Animation for the Web.....3
IMD 245 Multimedia for the Web.....3
IMD 250 Digial Video Editing.....3
BE 282 Principles of Marketing 3
ENG 203 Business Writing.....3
Other Graphic Design Courses Approved By Program Coordinator 1-3
Other Information Technology, Architectural, Business, Communication, Fine Arts or other Option Appropriate Courses Approved by Program Coordinator 1-3

Library Information Technology Courses

Information Management and Design majors with the Library Information Technology Option choose 12 credit hours from the Library Information Technology Option Courses.

LIT 130 Web Publishing for Libraries 3
LIT 243 Library Services for Children** 3
LIT 245 Library Services for Young Adults** .....(3)
LIT 247 Library Services for Adults** .....(3)
LIT 285 History of Libraries.....3
LIT 299 Selected Topics: LIT.....1-3
*** If not used to satisfy other option requirements*

Web Design Option Courses

Information Management and Design majors with the Web Design Option choose **3** credit hours from the Web Design Option Courses.

IMD 160 Introduction to E-Commerce 3
IMD 175 Web Usability Design.....3
IMD 212 Advanced Microsoft Office Applications 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
Computer Programming Course Approved by
Program Coordinator.....3
Other Web Design Courses Approved By Program Coordinator 3
Other Information Technology, Architectural, Business, Communication, Fine Arts or other Option Appropriate Courses Approved by Program Coordinator 1-3

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.

For more information, visit the Nuclear Medicine Technology Web site at www.bluegrass.kctcs.edu/LCC/NMT.

First Year

			Credits
First Summer Term			
ENG	101	Writing I*	3
BSL	110	Human Anatomy and Physiology I*	4
			7
Second Summer Term			
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
PH	173	Physics for Health Sciences	2
NUC	140	Nuclear Medicine Principles & Clinic I	6
			14
Spring Semester			
CHE	106	Intro to Inorganic, Organic & Biochemistry	4
Oral Communication Course			3
NUC	150	Nuclear Medicine Principles & Clinic II	6
			13

Second Year

First Summer Session			
NUC	230	Nuclear Medicine Principles & Clinic III	6
			6
Fall Semester			
NUC	240	Nuclear Medicine Principles & Clinic IV	8
Heritage/Humanities Course/Foreign Language Course*			3-4
			11-12
Spring Semester			
NUC	280	Nuclear Medicine Principles & Clinic V	8
Social Interaction Course*…….			3-4
			11-12
		Total	**69 - 71**

This curriculum requires course attendance in the summer session.
** Satisfies General Education requirement for AAS degree*

NURSING

The Associate Degree Nursing Curriculum offered by the Bluegrass Community and Technical 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 facilities, physician's offices, clinics, and public health agencies. Please see the guidelines for the selective admission requirements to the Associate Degree Nursing Program.

For more information, visit the Nursing program Web site at www.bluegrass.kctcs.edu/LCC/NSG.

First Year

			Credits
Summer Sessions			
MA	109	College Algebra **or**	3
MA	111	Contemporary Mathematics or higher	3
PY	110	General Psychology* or	3
PSY	100	Introduction to Psychology*	(4)
BSL	110	Human Anatomy & Physiology I*	4
ENG	101	Writing I*	3
			13 - 14
Fall Semester			
NSG	115	Nursing I	9
BSL	111	Human Anatomy & Physiology II	4
PSY	223	Developmental Psychology	3
Computer Literacy Course			1-3
			17-19
Spring Semester			
NSG	125	Nursing II	2
NSG	235	Nursing III	4
NSG	245	Nursing IV	4
ENG	102	Writing II*	3
			13

Second Year

Fall Semester			
NSG	255	Nursing V	9
BSL	214	Medical Microbiology*	4
Oral Communication Course*			3
			16
Spring Semester			
NSG	265	Nursing VI	9
Heritage/Humanities/Foreign Language Course*			3
Elective Course(s)			1-3
			13 - 15
		Total	**72 - 77**

** Satisfies General Education requirement for AAS degree*

-A letter grade of "C" or higher is required for each nursing course, each biological/physical science course, and each math course.
-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 and behavioral 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 Bluegrass Community and Technical 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 68, or visit the Radiography program Web site at: www.bluegrass.kctcs.edu/LCC/RAD.

Summer Session I

BSL 110	Human Anatomy & Physiology I*	4
	Total	4

Summer Session II

BSL 111	Human Anatomy & Physiology II	4
	Total	4

Fall Semester

RDL	100	Radiography I	10
ENG	101	Writing I*	3
MA	109	College Algebra*	3
		Total	16

Spring Semester

RDL	110	Radiography II	10
ENG	102	Writing II*	3
PH	172	Physics for Health Sciences	2
		Total	15

Summer Session I

RDL	200	Radiography III	4
		Total	4

Summer Session II

RDL	205	Radiography IV	3
		Total	3

Fall Semester

RDL	210	Radiography V	9
PY	110	General Psychology*	3
Computer Literacy Course			1-3
		Total	13-15

Spring Semester

RDL	220	Radiography VI	9
Heritage/Humanities/Foreign Language Course*			3-4
Oral Communications Course*			3
		Subtotal	**15-16**
		Total Hours	**74-77**

** Satisfies General Education requirement for AAS degree*

-CPR certificate must be obtained prior to enrolling in RDL 100 and certification must be kept current throughout the program.
-The Radiography Program at BCTC requires that BSL 110 and 111 be successfully completed prior to beginning of RDL 100.
-Prior to enrollment in RDL 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 overall 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. 4345.

Core

RDL	230	Sectional Anatomy for Advanced Imaging	3
RDL	240	Advanced Patient Care	3

Computed Tomography Option

RDL	250	Computed Tomography Physics and Instrumentation	3
RDL	260	Computed Tomography Imaging Technology	3
RDL	270	Computed Tomography Clinical Imaging Seminars	3

Magnetic Resonance Imaging Option

RDL	255	Magnetic Resonance Physics and Instrumentation	3
RDL	265	Magnetic Resonance Imaging Technology	3
RDL	275	Magnetic Resonance Imaging Clinical Seminars	3

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 all of the national board examinations in Respiratory Care, including the Certified Respiratory Therapist (C.R.T.) and Registered Respiratory Therapist (R.R.T.) credentials. Please see the guidelines for the selective admission requirements to the Respiratory Care program, page 70. For more information, visit the Respiratory Care program Web site at www.bluegrass.kctcs.edu/LCC/RCP.

Note: RRT courses were previously listed as RCP.

First Year

Summer I

MAH	151	Applied Mathematics* or	3
MA	109	College Algebra*	(3)
BSL	110	Human Anatomy & Physiology I*	4
			7

Summer II

BSL	111	Human Anatomy & Physiology II	4
ENG	101	Writing I*	3
			7

Fall

ENG	102	Writing II*	3
BSL	214	Medical Microbiology or	4
BIO	208	Principles of Microbiology	(3)
Heritage/Humanities/Foreign Language Course*			3-4
Oral Communications Course*			3
			12-14

Spring

RRT	110	Cardiopulmonary Anatomy & Physiology	3
RRT	120	Fundamentals of Respiratory Care	4
RRT	121	Respiratory Care Practice I	1
RRT	130	Cardiopulmonary Pharmacology	2
PY	110	General Psychology*	3
			13

Summer I

RRT	131	Respiratory Care Practice II	2
RRT	140	Cardiopulmonary Evaluation	2
			4

Summer II

RRT	141	Respiratory Care Practice III	2
RRT	150	Intro to Mechanical Ventilation	2
			4

Fall

RRT	200	Patient-Ventilator System Management	4
RRT	210	Cardiopulmonary Pathophysiology	3
RRT	220	Neonatal/Pediatric Respiratory Care	3
RRT	221	Respiratory Care Practice IV	4
			14

Spring

RRT	230	Preventive & Long-term Respiratory Care	2
RRT	231	Respiratory Care Practice V	4
RRT	240	Advanced Cardiopulmonary Evaluation	3
RRT	250	Advanced Cardiac Life Support	2
RRT	260	Respiratory Care Seminar	1
			12

Total 73-75

** Satisfies General Education requirement for AAS degree*

-This curriculum requires course attendance in both summer sessions.

-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 Bluegrass Community and Technical College requires that MAH 151 or MA 109, BSL 110 & BSL 111 be successfully completed prior to beginning RRT 110, RRT 120, RRT 121, and RRT 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.