Computer & Information Technologies
Curriculum Information
Effective Fall 2006

Pre-major Requirements
Complete all these courses before taking other CIT courses

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

Major Requirements – Core
Complete all these courses

- CIT 150 - Internet Technologies (3)
- CIT 160 - Data Communications and Networking (4)
- ETE 134 - Computer Hardware Maintenance (3)
- Approved CIT Technical Course (3)

Major Requirements - Options
Complete all courses in one option

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)

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 Specialization (6)
- Approved Level I or II Network Specialization (6)
- Approved Scripting Language Course (3)

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 (3)
- Approved Level II Programming Language (3)
- Approved Level I or II Programming Language (3)
- Approved Management Course (3)
- Approved Accounting Course (3)

Internet Technologies Option
- IMD 175 - Web Usability Design (3) OR IMD 180 Intermediate Web Design (3)
- CIT 253 - Data Driven Web Pages (3)
- Level I Web Programming Language (3)
- Level II Web Programming Language (3)
- CIT 170 - Introduction to Database Design (3)
- CIT 220 - Systems Analysis and Design (3)
- CIT 290 - Information Systems Design and Implementation (3)
- CIT 294 - Seminar in Web Technologies (3)

Note: Students pursuing the Internet Technologies Option must take CIT 171 and either CIT 140 or CIT 149.

General Education Requirements
These courses may be completed at any time while working toward your degree

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

http://www.bluegrass.kctcs.edu/csis/cit
Approved Accounting Courses*

ACC 201 Financial Accounting 1 (3)
ACC 202 Managerial Uses of Accounting Information (3)

Approved Management Courses*

MGTL 200 Small Business Management (3)
MGTL 283 Principles of Management (3)
MGTL 287 Supervisory Management (3)
MKTL 291 Retail Management (3)
QT 101 Quality Management Principles (3)

Approved Applications Specializations*

Productivity Software Specialization
IMD 235 Advanced Word Processing (3)
AND CIT 234 Advanced Spreadsheet Applications (3)
AND CIT 236 Advanced Database Applications (3)

Database Developer Specialization
CIT 171 SQL I (3)
AND CIT 271 SQL II (3)
AND CIT 236 Advanced Database Applications (3)

Geographic Information Systems
GIS 110 Spatial Data Analysis & Map Interpretation (3)
AND GIS 120 Intro to Geographic Information Systems (3)
AND 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.

Note:

• Students may not use one course to fulfill multiple requirements.
• Students may choose CIT280 or COE199 for a maximum of 3 credit hours.

Approved Level II Network Technology Specializations*

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 (C++) (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 (Advanced C++) (4)
CS 216 Introduction to Software Engineering (3)

Approved Level I Web Programming Languages*

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)

Approved Level II Web Programming Languages*

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)

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 CIT 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 (1-8)
ETE 112 Digital Logic Circuits (4)
ETE 256 Microprocessor Fundamentals (4)
GIS 120 Introduction 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)
Additional CS Course(s) (EXCEPT CS 100 and CS 101)
* Or other courses approved by Computer & Information Technologies Program Coordinator

+ With approval of Computer & Information Technologies Program Coordinator

Students are advised to consult the Bluegrass Community and Technical College catalog for credit hour and prerequisite information.

http://www.bluegrass.kctcs.edu/csis/cit
Graduation Requirements

In addition to the Bluegrass Community and Technical College requirements for graduation, students must also meet the following:

73 credit hours are required for graduation. Regardless of the time the student has attended the college, a minimum of twenty-four (24) credits must be completed within the Kentucky Community and Technical College System and at least 25 percent of the approved curriculum credits must be completed at BCTC.

Students must have a cumulative grade point average of at least 2.0 (C) to be eligible for graduation.

Non-general education course credits more than 10 years old cannot be used to meet 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 meet graduation requirements.