



## **COMPUTER INFORMATION SYSTEMS**

**(Applications Option--110301701)**

**(Programming Option--110301702)**

**(Web Business Applications Option--110301703)**

### **Associate in Applied Science Degree**

This program includes an Applications Option, a Programming Option, and a Web Business Applications Option with a core of courses common to all three. The core includes a general education component central to a collegiate education and technical courses. In addition to the core courses, students take specialty courses for the option selected.

The **Applications Option** is designed to train students to operate a wide variety of software packages and to assist businesses in developing and maintaining databases, producing financial statements, and developing applications using various software packages. **Students are required to take Co-op or Internship to gain work experience that will improve their job marketability.** Students completing this option are prepared to work with microcomputer-based systems in business and industry.

The **Programming Option** provides students with an introduction to at least three programming languages with one of the languages studied at the intermediate level. **Students are required to take Co-op or Internship to gain work experience that will improve their job marketability.** Students completing this option are prepared for the entry-level position of computer programmer.

The **Web Business Applications Option** trains students to develop state-of-the-art web pages for business and industry. **Students are required to take Co-op or Internship to gain work experience that will improve their job marketability.** Students completing this option are prepared to develop and work with web based systems in business and industry.

#### **Admissions Policy:**

As an open admissions community college, JCC accepts high school or GED graduates or individuals eligible to take the GED.

#### **Application Procedure:**

Submit the following:

1. College application form
2. Scores from the American College Test (ACT). ACT scores are not required for students with previous college credit (Advanced Standing).
3. Official transcripts of college work completed.

#### **For Financial Assistance Contact:**

Financial Aid Office  
Jefferson Education Center  
Jefferson Community and Technical College  
109 East Broadway  
Louisville, KY 40202  
Phone: (502) 213-2137

#### **For Further Information Contact:**

CIS Program Advisors  
Business Division, VTI 224  
Jefferson Community and Technical College  
109 East Broadway  
Louisville, KY 40202  
Phone: (502) 213-2185

Jefferson Community and Technical College does not discriminate on the basis of race, color, national origin, religion, marital status, sex or handicap in employment, educational programs or activities as set forth in Title IX, Title VI and Section 504. Jefferson Community and Technical College will comply with Section 504 of the Rehabilitation Act and Title IX. Disabled students can receive individual assistance by contacting the college's handicapable services counselors.

Last UPDATED 10/2003

**General Education Requirements**

150 MT College Algebra (Prerequisite: One of the following: 1. Math ACTE scores of 20 or above. 2. Math ACTE scores of 18 or 19 with concurrent MT 100 workshop. 3. MT 120 or MT 122 or MT 125. 4. KCTCS placement exam recommendation)..... (3)
Heritage Humanities Course ..... 3
Science Course ..... 3
Social Interaction Course ..... 3
101 ENG Writing I (Prerequisite: ACT verbal score greater than 18 or COMPASS test placement) ..... 3
102 ENG Writing II (Prerequisite: ENG 102) ..... 3
181 COM Basic Public Speaking or ..... 3
252 COM Introduction to Interpersonal Communications ..... (3)
100 CIS Introduction to Computers (Prerequisite: Basic keyboarding skills recommended)..... 3
or equivalent ..... (3)

**Total General Education Requirements 24**

**CIS Core Requirements**

110 CIS Operating Systems Concepts (Prerequisite: Computer Literacy Course or consent of instructor) ..... 3
120 CIS Program Design & Development (Prerequisite: Computer Literacy Course or consent of instructor)..... 3
130 CIS Microcomputer Applications & Development (Prerequisite: Computer Literacy course or consent of instructor) ..... 3
147 CIS Query Programming (Prerequisite: CIS 110, CIS 120, and CIS 130)..... 3
210 CIS Communications & Networking (Prerequisite: CIS 110 and CIS 130 or equivalent)..... 3
220 CIS Systems Analysis & Design (Prerequisite: ENG 102 and CIS 120) ..... 3
270 CIS Database Management Systems (Prerequisite: CIS 147 and CIS 220) ..... 3
Programming Language I (Prerequisite: CIS 120 or consent of instructor)..... 3
Accounting Course (Accounting 201 requires a Sophomore standing) ..... 3
Management Course (Web Business Applications Option majors required to take BA 282)..... 3
280 CIS Internship or
199 COE Co-op (Note: If an internship or Co-Op is not available, then an additional class may be taken at the discretion of the CIS Academic Program Coordinator) ..... 3
160 BA Introduction to Business ..... 3

**Total CIS Core Requirements 36**

**Applications Option Course Requirements**

230 CIS Advanced Microcomputer Applications (Prerequisite: CIS 130 or consent of instructor) ..... 3
132 IT Web Page Development (Prerequisite: CIS 100 or consent of instructor)..... 3
**Total Applications Option 6**

**Programming Option Requirements**

Programming Language I (in addition to CIS core) (Prerequisite: CIS 120 or consent of instructor)..... 3
Programming Language II (Prerequisite: Subsequent level one course or consent of instructor) ..... 3
**Total Programming Option 6**

**Web Business Applications Option Requirements**

132 IT Web Page Development..(Prerequisite: CIS 100 or consent of instructor)..... 3
230 IT Advanced Web Page Development (Prerequisite: IT 132 and a scripting language or consent of instructor)..... 3
**Total Web Business Applications Option 6**

**TOTAL AAS CIS DEGREE REQUIREMENTS 66**

**Programming Language I**

143 CIS COBOL Programming ..... 3
148 CIS Visual Basic I..... 3

149 CIS	JAVA Programming I .....	3
152 NIS	Javascript.....	3
155 CIS	Introduction to C/C++ .....	3

**Programming Language II**

232 CIS	Programming for Windows Environments .....	3
248 CIS	Visual Basic II.....	3
249 CIS	JAVA Programming II.....	3
252 CIS	Intermediate C ++ .....	3

**Management Courses**

200 BA	Small Business Management .....	3
274 BA	Human Resources Management .....	3
282 BA	Principles of Marketing (Web Business Applications Option requirement) .....	3
283 BA	Principles of Management .....	3
287 BA	Supervisory Management .....	3
288 BA	Personal and Organizational Leadership .....	3
275 OST	Office Management .....	3
101 QMS	Quality Management .....	3

**Revised: January 2009**