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# Desktop Publishing Applications Specialist Certificate

An individual, with or without a college degree, with the goal to acquire or improve computer desktop publishing application skills, will accomplish that goal in this certificate. Emphasis is placed upon the acquisition of results-oriented career business and industry skills.

The desktop publishing certificate is intended for those seeking entry-level positions, as well as for those currently employed, who desire to enhance their job skills. This certificate provides current or prospective employers with tangible evidence of desktop publishing competency, on the part of the certificate completer.

Application courses for the certificate will encourage students to develop a "cross-platform" mastery, which is made possible by offering most on-campus courses in a dual-platform Macintosh and Windows computing environment.

Required courses that cover skills a student already has may be replaced with other CDTP courses at the discretion of the Assistant Dean of Computing Sciences and Information Technology or a desktop publishing professor. An applicant must complete 14 credits at Johnson County Community College.

# Suggested/Sample Course Sequence Completion in One Semester

Word Processing I: MS Word\*

E-Presentation: MS PowerPoint\*

Introduction to Web Pages: Dreamweaver\*

Introduction to Dynamic Web Pages: Dreamweaver\*

Intermediate Web Pages: Dreamweaver\*

Word Processing II: MS Word\*

Introduction to Flash\*

The sequence taken by the student may vary depending on prerequisites, course availability, and personal/ professional responsibilities.

(Major Code 4830; State CIP Code 11.0202)

**CPCA 108** 

**CPCA 123** 

CPCA 125

**CWEB 105** 

**CWEB 115** 

**CWEB 125** 

**CWEB 130** 

· Computing Sciences and Information Technology (http://www.jccc.edu/computing-sciences-and-information-technology)

# **Prerequisites for Required Courses**

Prior to beginning this program students must take the following prerequisite or have taken an equivalent transfer course, or have passed the waiver test, or have obtained a waiver from the program administrator.

| CPCA 105<br>or CPCA 106                  | Introduction to Personal Computers: Windows Introduction to Personal Computers: Macintosh | 1 |  |
|--|---|---|--|
| First Five Week Session                  |   |   |  |
| CDTP 135                                 | Desktop Photo Manipulation I: Photoshop   | 1 |  |
| CDTP 140                                 | Desktop Publishing I: InDesign  | 1 |  |
| CDTP 145                                 | Desktop Illustration I: Illustrator   | 1 |  |
| Second Five Week Session                 |   |   |  |
| CPCA 134                                 | Managing Your Macintosh*  | 1 |  |
| or CPCA 138                              | Windows for Microcomputers*   |   |  |
| CDTP 155                                 | Desktop Photo Manipulation II: Photoshop*   | 1 |  |
| CDTP 160                                 | Desktop Publishing II: InDesign*  | 1 |  |
| CDTP 165                                 | Desktop Illustration II: Illustrator*   | 1 |  |
| Third Five Week Session                  |   |   |  |
| CDTP 175                                 | Desktop Photo Manipulation III: Photoshop*  | 1 |  |
| CDTP 168                                 | Desktop Publishing III: InDesign*   | 1 |  |
| CDTP 185                                 | Desktop Illustration III: Illustrator*  | 1 |  |
| Select four of the following ten courses |   |   |  |

| CWEB 140 | Intermediate Flash* | 1 |
|----------|---------------------|---|
| CWEB 150 | Advanced Flash*     | 1 |

**Total Program Hours: 14** 

# **Courses**

#### CIS 124 Introduction to Computer Concepts and Applications (3 Hours)

In this introductory, non-technical computer course, students will learn through hands-on assignments to use current computer technologies to enhance personal and professional productivity. This includes current and emerging computer and Internet technologies, as well as desktop and web-based business applications. Students will learn strategies for evaluating the validity, legitimacy, and productivity potential of future technologies as they emerge, as well as how to assess the privacy risks associated with each. 3 hrs. lecture/wk.

#### CIS 162 Database Programming\* (4 Hours)

Prerequisites: CIS 134 or CS 134

This course covers the use of an interactive environment and programming language to create, maintain and manipulate databases using Access as the RDBMS. The use of a command-level database programming language to customize business systems and selectively retrieve information using single or multiple database tables also will be studied. 3 hrs. lecture, 2 hrs. open lab/wk.

#### CIS 201 Introduction to Information Systems\* (3 Hours)

Prerequisites: ACCT 121

This course is an introduction to the use of computers in management, concepts of computer software, hardware, and systems analysis. Applications will include electronic spreadsheets, database management software, graphics and presentation tools, and other special purpose tools. Word processing tools will be used for most graded assignments. Programming will be studied in the context of spreadsheet macros. 3 hrs. lecture/wk.

#### CIS 201H HON: Introduction to Information Systems (1 Hour)

One-credit hour honors contract is available to qualified students who have an interest in a more thorough investigation of a topic related to this subject. An honors contract may incorporate research, a paper, or project and includes individual meetings with a faculty mentor. Student must be currently enrolled in the regular section of the courses or have completed it the previous semester. Contact the Honors Program Office, COM 201, for more information.

#### CIS 204 UNIX Scripting and Utilities\* (3 Hours)

Prerequisites: CIS 134 or CS 134

This course will cover the concepts and principles related to scripting for the multi-user, multi-tasking UNIX operating system and its utilities. Students will complete projects in UNIX ranging from using simple commands to writing shell scripts automating repetitive tasks. 3 hrs. lecture/wk.

#### CIS 208 Mobile Application Development\* (4 Hours)

Prerequisites: CS 205

In this course, students will utilize effective design and structured programming techniques to build mobile applications. Topics will include designing interfaces for small screens and varied architectures, processing user events, retrieving and storing data, communicating via the Internet, and deploying applications. 3 hrs. lecture, 2 hrs open lab/wk.

#### CIS 240 Advanced Topics in Java\* (4 Hours)

Prerequisites: CS 205

At the completion of this course, the student should be able to create Java applications for implementation on the Internet and the personal computer. The student will complete projects using Java's built-in features. The course will include generics, input and output streams, serialization, exception handling, multithreading, client-server applications and graphical user interfaces. 3 hrs. lecture, 2 hrs. open lab/wk.

## CIS 242 Introduction to System Design and Analysis\* (3 Hours)

Prerequisites: CIS 138 or CS 200 or CS 201 or CS 205

Students will study the basic philosophy and techniques of developing and using business information systems. The emphasis will be on the human involvement necessary in systems design and implementation. The course will address the use of specific technical approaches available in information processing. 3 hrs. lecture/wk.

# CIS 260 Database Management\* (4 Hours) Prerequisites: CS 200 or CS 201 or CS 205

At the completion of this course, students should be able to understand the characteristics and objectives of database management systems (DBMS). Topics include database environments, data modeling using the entity-relational model, normalization, logical and physical design, the Structured Query Language (SQL), data quality, database administration and related topics. Students will use a relational DBMS, employ associated tools and write programs to manipulate tables. 3 hrs. lecture, 2 hrs. open lab/wk.

#### CIS 264 Application Development and Programming\* (4 Hours)

Prerequisites: CIS 242 and CIS 260 and CIS 235 or CIS 240 or CIS 244 or CS 236 or CS 255

This course helps students develop a significant software project while combining previously learned software development skills with contemporary technologies. Students should work within a team to communicate, plan and implement a software application. Proper interviewing and job searching techniques are also explored. 4 hrs. lecture/wk.

## CIS 270 Information Systems Internship\* (3 Hours)

Prerequisites: Department approval and any of the following courses: CS 236 or CS 250 or CS 255 or CIS 235 or CIS 240 or CIS 250 or

Students will work in an approved training situation under instructional supervision. The internship is designed to give students the opportunity to use skills learned in computer science and information systems courses. Fifteen hours on-the-job training per week will be the usual workload for the student. To be eligible, students must have recently completed a course in the department.

#### CIS 275 Web-Enabled Database Programming\* (4 Hours)

Prerequisites: CS 200 or CS 201 or CS 205

At the completion of this course, the student should be able to create dynamic Web pages containing information accessed from a database. The student will complete projects using Web technologies that interface with a database. The course will include graphics, graphical user interfaces, exception handling and event-driven programming. 3 hrs. lecture, 2 hrs. open lab/wk.

#### CIS 291 Independent Study\* (1-7 Hour)

Prerequisites: 2.0 GPA minimum and department approval

Independent study is a directed, structured learning experience offered as an extension of the regular curriculum. It is intended to allow individual students to broaden their comprehension of the principles of and competencies associated with the discipline or program. Its purpose is to supplement existing courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting, but will be appropriately directed and supervised by regular instructional staff. Total contact hours vary based on the learning experience.

#### CIS 292 Special Topics: (1-4 Hour)

This course periodically presents specialized topics in computer information systems that are not available in the regularly offered curriculum. Special Topics may be repeated for credit, but only on different topics. Total contact hours vary with topic.