ILLINOIS VALLEY COMMUNITY COLLEGE

COURSE OUTLINE

DIVISION: Workforce Development

COURSE: CSD 1210 - Comprehensive Microsoft Access

Date:	Spring 2	005	
Credit Hou	rs:	3	
Prerequisit	e(s):		
Delivery Method: Offered: X Fall		 Lecture Seminar Lab Clinical 	 2 Contact Hours (1 contact = 1 credit hour) 0 Contact Hours (1 contact = 1 credit hour) 2 Contact Hours (2 contact = 1 credit hour) 0 Contact Hours (3 contact = 1 credit hour)
		 Online Blended Spring 	☐ Summer

IAI Equivalent - Only for Transfer Courses-go to http://www.itransfer.org:

CATALOG DESCRIPTION:

In this comprehensive course in Access students will learn basic concepts and continue through advanced database topics. They will use Access to create and maintain databases. Queries, SQL, and database relationships will be covered. Students will also create mailing labels, input masks, validation rules, and work with forms.

GENERAL EDUCATION GOALS ADDRESSED [See the last page of this form for more information.] Upon completion of the course, the student will be able: [Choose those goals that apply to this course.] To apply analytical and problem solving skills to personal, social and professional issues and situations. To communicate orally and in writing, socially and interpersonally. To develop an awareness of the contributions made to civilization by the diverse cultures of the world. To understand and use contemporary technology effectively and to understand its impact on the individual and society. To work and study effectively both individually and in collaboration with others. | To understand what it means to act ethically and responsibly as an individual in one's career and as a member of society. To develop and maintain a healthy lifestyle physically, mentally, and spiritually. To appreciate the ongoing values of learning, self-improvement, and career planning.

EXPECTED LEARNING OUTCOMES AND RELATED COMPETENCIES:

Outcome 1 – Upon successful completion of the course, the student will understand basic database principles.

Competency 1.1 – Students will understand basic database terminology.

Competency 1.2 – Students will understand what database management is.

Competency 1.3 – Students know understand relational databases are.

Outcome 2 – Upon successful completion of the course, the student will be able to create and use tables.

Competency 2.1 – Students will be able to create, open, and close tables.

Competency 2.2 – Students will be able to define, add, and change fields.

Competency 2.3 – Students will be able to add, edit, and delete records.

Competency 2.4 – Students will be able to locate, order, and filter records.

Competency 2.5 – Students will be able to restructure a table.

Competency 2.6 – Students will be able to specify default values and formats.

Competency 2.7 – Students will be able to use validation rules.

Competency 2.8 – Students will be able to create single and multiple field indexes.

Competency 2.9 – Students will be able to use date, memo, OLE, and hyperlink fields.

Competency 2.10 – Students will be able to change row/column spacing.

Outcome 3 – Upon successful completion of the course, the student will be able to to create and use queries..

Competency 3.1 – Students will be able to create, run, print, close, and clear queries.

Competency 3.2 – Students will be able to use text, wildcards, numeric data, and comparison operator (and/or).

Competency 3.3 – Students will be able to sort query results.

Competency 3.4 – Students will be able to create parameter queries.

Competency 3.5 – Students will be able to join properties and tables in a query and restrict records in a join.

Competency 3.6 – Students will be able to filter a query record set.

Competency 3.7 – Students will be able to calculate statistics and use graphing with statistics.

Competency 3.8 – Students will be able to create a SQL query.

Outcome 4 – Upon successful completion of the course, the student will be able to use forms and reports.

Competency 4.1 – Students will be able to create a report and print it.

Competency 4.2 – Students will be able to create use grouping and subtotals in reports.

Competency 4.3 – Students will be able to change headings on a report.

Competency 4.4 – Students will be able to use the form window and move fiels on a form

Competency 4.5 – Students will be able to place a calculated field, a title, and change colors on a form.

Competency 4.6 – Students will be able to view data using a form

Competency 4.7 – Students will be able to create and use a form with a subform.

Competency 4.8 – Students will be able to add a single field control to a form.

Competency 4.9 – Students will be able to create mailing labels.

Competency 4.10 – Students will be able to add page numbers and a date.

Competency 4.11 – Students will be able to add, modify and move a sub report.

Outcome 5 – Upon successful completion of the course, the student will be able to administer a database.

Competency 5.1 – Students will be able to compact a database.

Competency 5.2 – Students will be able to convert a database to an earlier version.

Competency 5.3 – Students will be able to use table analyzer, performance analyzer and documenter.

Competency 5.4 – Students will be able to set startup options.

Competency 5.5 – Students will be able to encrypt a database.

Competency 5.6 – Students will be able to specify referential integrity options.

Competency 5.7 – Students will be able to open a database in exclusive mode.

Com potency 5.8 – Students will be able to create a replica.

Outcome 6 – Upon successful completion of the course, the student will be able to customize forms using Visual Basic for Applications (VBA), charts, and pivot table objects. Competency 6.1 – Students will be able to add a command button to a form, and modify the VBA code associated with that button.

Competency 6.2 – Students will be able to add a combo box and modify it properties.

Competency 6.3 – Students will be able to add a chart to a form.

Competency 6.4 – Students will be able to create a pivot table form.

Outcome 7 – Upon successful completion of the course, the student will be able to create and use macros.

Competency 7.1 – Students will be able to create and run a macro

Competency 7.2 – Students will be able to add actions and comments to a macro.

Competency 7.3 – Students will be able to copy a macro.

COURSE TOPICS AND CONTENT REQUIREMENTS:

Introduction and requirements Maintaining a database Querying a database Creating forms and reports Creating more advanced queries and custom forms Customizing reports and integrating access with other programs Automating Tasks with Macros Using and Writing Visual Basic for Applications code

INSTRUCTIONAL METHODS:

- Lecture
- Lab hands-on training
- Testing
- Programming assignments
- Teacher demonstration
- Group work

INSTRUCTIONAL MATERIALS:

Computer Lab **Microsoft Access 2000,** Joseph J. Adamski, Kathleen T. Finnegan, Charles Hommel – Course Technology Computer Projection System Floppy Disks Microsoft Office 2003 Professional

STUDENT REQUIREMENTS AND METHODS OF EVALUATION:

Hands-on tests

Lab Assignments

Objective tests

Develop an understanding and/or a comprehensive knowledge of the items listed as course content.

- 1. **Read** required material on the topic
- 2. Attend class on current topic
- 3. Complete all tests and homework

4. Ask questions about any misunderstood area either in class, during office hours, or of the tutor

5. Join in discussions

Grading Scale

A 90-100%

- B 80-89%
- C 70-79%
- D 60-69%

OTHER REFERENCES

Course Competency/Assessment Methods Matrix

CSD 1210 – Microsoft Access										Α	ss	es	sm	en	t O	pti	ons	5												
For each competency/outcome place an "X" below the method of assessment to be used.	Assessment of Student Learning	Article Review	Case Studies	Group Projects	Lab Work	Oral Presentations	Duizzes	Written Exams	Artifact Self Reflection of Growth	Capstone Projects	Comprehensive Written Exit Exam	Course Embedded Questions	Multi-Media Projects	Observation	Writing Samples		Real World Projects Dofficition Journals	Applied Application (skills) Test	Oral Exit Interviews	Accreditation Reviews/Reports	Advisory Council Feedback	Employer Surveys	Graduate Surveys	Internship/Practicum /Site Supervisor Evaluation	Licensing Exam	In Class Feedback	Simulation	Interview	Written Report	Assignment
Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below.	Direct/ Indirect	D	D						D	D	D	D	D							_	_	_	Δ	D						