SYLLABUS

DATE OF LAST REVIEW: 02/2013

CIP CODE: 11.0801

SEMESTER: Departmental Syllabus

COURSE TITLE: Web Database Connectivity

COURSE NUMBER: CIST0248

CREDIT HOURS: 3

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: Departmental Syllabus

EMAIL: Departmental Syllabus

KCKCC issued email accounts are the official means for electronically communicating with our students.

PREREQUISITE(S): CIST-0137 HTML Web Page Development and CIST-0117 Local Area Networking

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, http://www.kckccbookstore.com/, for the required texts for your particular class.

COURSE DESCRIPTION:
Web Database Connectivity provides students with the knowledge to connect a Web Server to various databases, construct web-based forms to retrieve information dynamically from databases and store information from consumer’s input. Students will also learn the fundamentals of secure websites for e-commerce.

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.
COURSE OUTLINE:

I. Introduction
   A. Introduction to Database Connectivity
   B. Building a database using MS Access

II. Access Queries
   A. Building MS Access Queries
   B. Designing Advanced Queries
   C. Creating HTML Forms for Queries

III. Standard CGI
   A. Windows Common Gateway Standard (CGI)
   B. CGI Standard Output

IV. Designing CGI applications using other programming means
   A. Designing CGI applications using PERL
   B. Designing CGI applications to process form data using ASP

V. Utilizing an Access database in a CGI application

VI. Templates and databases
   A. Processing template files with a CGI application
   B. Displaying database records with a CGI application

VII Building an SQL database

EXPECTED LEARNER OUTCOMES:

A. The student will be able to explain what database connectivity is.
B. The student will be able to describe the building of a database using Access.
C. The student will be able to define what a query is.
D. The student will be able to define what CGI is.
E. The student will be able to describe the CGI standard.
F. The student will be able to create a CGI application
G. The student will be able to define PERL.
H. The student will be able to demonstrate the ability to use Perl with CGI programming.
I. The student will be able to explain the use of template files.
J. The student will be able to summarize the use of on-line ordering.
K. The student will be able to create a simple on-line store.
L. The student will be able to describe an SQL database.
M. The student will be able to explain how to build quires with an SQL database.

COURSE COMPETENCIES:
Upon successful completion of this course:

*The student will be able to explain what database connectivity is.*
1. The student will be able to explain what database connectivity is.
2. The student will be able to identify basic database terms.
3. The student will be able to define hardware and software required for Access queries.

*The student will be able to describe the building of a database using Access.*
4. The student will be able to describe the building of a database using Access.
5. The student will be able to construct a simple Access database.
The student will be able to define what a query is.
6. The student will be able to define what a query is.
7. The student will be able to describe how to build a basic Access query.
8. The student will be able to construct a basic Access query.
9. The student will be able to define advanced Access Queries.
10. The student will be able to create an advanced Access query.
The student will be able to define what CGI is.
11. The student will be able to define what CGI is.
The student will be able to describe the CGI standard.
12. The student will be able to describe the CGI standard.
The student will be able to create a CGI application.
13. The student will be able to create a CGI application.
The student will be able to define PERL.
14. The student will be able to define PERL.
The student will be able to demonstrate the ability to use Perl with CGI programming.
15. The student will be able to demonstrate the ability to use Perl with CGI programming.
16. The student will be able to design a CGI application to process form data.
17. The student will be able to describe the use of ASP in web pages.
18. The student will be able to create a simple ASP web page to process form data.
19. The student will be able to use an Access database in a CGI application
The student will be able to explain the use of template files.
20. The student will be able to explain the use of template files.
21. The student will be able to process template files with a CGI application.
22. The student will be able to create a simple database/query project.
23. The student will show the ability to display database records through templates.
The student will be able to summarize the use of on-line ordering.
24. The student will be able to summarize the use of on-line ordering
25. The student will be able to create an example of on-line ordering
The student will be able to create a simple on-line store.
The student will be able to describe an SQL database.
27. The student will be able to describe an SQL database.
The student will be able to explain how to build quires with an SQL database.
28. The student will be able to explain how to build quires with an SQL database.
29. The student will be able to create a simple SQL database.

ASSESSMENT OF LEARNER OUTCOMES:
Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

SPECIAL NOTES:
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

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