DATE OF LAST REVIEW: 02/2013

CIP CODE: 15.1201

SEMESTER: Departmental Syllabus

COURSE TITLE: Special Problems in Data Warehousing

COURSE NUMBER: CIST-0246

CREDIT HOURS: 3

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: 913-334-1100

EMAIL: Departmental Syllabus

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

PREREQUISITE(S): CIST-0154 (Principles of Data Warehousing)

REQUIRED TEXT(S):
Required materials will include Online Sites, projects in industry, and demonstrations that will change each semester due to availability. A list will be given out at the beginning of each semester.

COURSE DESCRIPTION:
This course will further enhance and hone the students’ data warehousing skills. The students will complete a project based on the needs of the community at the time of the course offering. Students will mine, develop, and load data, to create a data warehouse as a means of offering assistance to the community while at the same time gaining practical real world experience.

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, and panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:
Course content may vary, but will generally include the following:
I. Identifying the Problem
   A. Interviewing the Client
   B. Defining the Problem
   C. Researching the Problem
II. Developing the solution
   A. Mining Data
   B. Develop Data
   C. Constructing Reference Tables
   D. Loading Data

III. Constructing the Data Warehouse
   A. Establishing Procedures
   B. Organizing Data
   C. Testing and Analyzing Output

EXPECTED LEARNER OUTCOMES:
A. Upon completion of the course the student will be able to demonstrate the ability to identify a data warehouse problem.
B. Upon completion of the course the student will be able to demonstrate the ability to develop data to solve a data warehouse problem.
C. Upon completion of the course the student will be able to demonstrate the ability to construct a data warehouse.

COURSE COMPETENCIES:

*Upon completion of the course the student will be able to demonstrate the ability to identify a data warehouse problem.*

1. Upon completion of the course the student will be able to define a data warehouse problem.
2. Upon completion of the course the student will be able to interview a client to gain insight into a data warehouse problem.
3. Upon completion of the course the student will be able to interpret data and research a data warehouse problem.
4. Upon completion of the course the student will be able to interpret data and analyze research to develop a solution to a data warehouse problem.
5. Upon completion of the course the student will be able to interpret data and identify a data warehouse problem.

*Upon completion of the course the student will be able to demonstrate the ability to develop data to solve a data warehouse problem.*

6. Upon completion of the course the student will be able to define the solution to a data warehouse problem.
7. Upon completion of the course the student will be able to identify the solution to a data warehouse problem.
8. Upon completion of the course the student will be able to mine data to be used toward the solution to a data warehouse problem.
9. Upon completion of the course the student will be able to interpret data and select data that is appropriate to a specific data warehouse problem.
10. Upon completion of the course the student will be able to interpret data to create data that is appropriate toward the solution of a specific data warehouse problem.
11. Upon completion of the course the student will be able to create reference tables to be used toward the solution of a specific data warehouse problem.
12. Upon completion of the course the student will be able to identify appropriate reference tables which are necessary toward the solution of a specific data warehouse problem.
13. Upon completion of the course the student will be able to interpret data from reference tables.
14. Upon completion of the course the student will be able to interpret data and load data to be used toward the solution of a specific data warehouse problem.
Upon completion of the course the student will be able to demonstrate the ability to construct a data warehouse.

15. Upon completion of the course the student will be able to define necessary procedures toward the construction of a data warehouse.
16. Upon completion of the course the student will be able to identify necessary procedures toward the construction of a data warehouse.
17. Upon completion of the course the student will be able to interpret data and establish procedures toward the construction of a data warehouse.
18. Upon completion of the course the student will be able to interpret data and implement procedures toward the construction of a data warehouse.
19. Upon completion of the course the student will be able to identify a procedure by which to organize data toward the construction of a data warehouse.
20. Upon completion of the course the student will be able to interpret data and implement a procedure by which to organize data toward the construction of a data warehouse.
21. Upon completion of the course the student will be able to interpret data and organize data toward the construction of a data warehouse.
22. Upon completion of the course the student will be able to interpret data and analyze output from a data warehouse.
23. Upon completion of the course the student will be able to identify procedures by which to test output from a data warehouse.
24. Upon completion of the course the student will be able to interpret data and test data from a data warehouse.

ASSESSMENT OF LEARNER OUTCOMES:
Assessment methods may include, but are not limited to, the following: Homework, Assignments, Quizzes, Class Participation, Chapter Tests, and Final Exam. The grading scale and the process for calculating the course grades are to be determined by the individual instructors. This information will be included in each instructor’s syllabus.

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.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of Academic Resources, in Rm. 3354 or call at: 288-7670.