DATE OF LAST REVIEW: 2/15/2013

CIP CODE: 15.1302

SEMESTER: Departmental Syllabus

COURSE TITLE: Commercial Building Planning

COURSE NUMBER: ENGR-0262

CREDIT HOURS: 4

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: 913-334-1100

EMAIL: KCKCC-issued accounts are the official means for electronically communicating with our students.

PREREQUISITE(S): None

REQUIRED TEXT(S): Please check with the KCKCC bookstore, http://www.kckccbookstore.com for the required text for your particular class.

COURSE DESCRIPTION: This course is designed to provide knowledge of light commercial building through such topics as problems in planning a building, traffic flow, site conditions, building codes, general use categories, landscaping and miscellaneous problems. Drawings will be completed using AUTOCAD™ and architectural software. The student will design and draw plans for a light commercial building.

METHOD OF INSTRUCTION: A variety of methods is used. This may include, but is not limited to: lecture, videos, honors, laboratories, demonstrations, cooperative learning, discussion, computer assisted, tutoring, telecourse, online and self-paced learning.

COURSE OUTLINE: Course content may vary, but will generally include the following:

I. Planning a Building
   A. Building Codes
   B. Site Conditions
   C. Traffic Problems
   D. Orientation
   E. Zoning
   F. Surface Materials
   G. Provisions for Advertising and display

II. General Use -- Categories
A. Merchandising  
B. Comfort areas for clients and employees  
C. Working areas  
D. Storage areas  
E. Outdoor areas  
F. Provision for expansion  

III. Miscellaneous Problems  
A. Future value estimates  
B. City expansion  

IV. Drawing Plans  
A. Small Commercial Buildings  
  1. Research  
  2. Budget Analysis  
  3. Types and Styles of Construction  
  4. Architectural symbols  
B. Construction Planning  
  1. Building Procedures  
  2. Types and styles of construction  
  3. Construction materials  
  4. Specification  
C. Estimating Construction and Presenting Plans  
  1. Estimating cost  
  2. Presentation drawing  
  3. Plot plans  
  4. Construction materials  
D. Working drawings  
  1. Basements and foundations  
  2. Floor plans and multilevels  
  3. Elevations  
  4. Mechanical, HVAC  
  5. Plumbing  
  6. Electrical  
  7. Detail drawings

EXPECTED LEARNER OUTCOMES:  
A. Upon completion of the course the student will be able to analyze data and plan a small commercial building.  
B. Upon completion of the course the student will be able to identify and define space requirements for a small commercial building.  
C. Upon completion of the course the student will be able to identify and plan for potential future building problems.  
D. Upon completion of the course the student will be able to design and create plans for a small commercial building.

COURSE COMPETENCIES:  

Upon completion of the course the student will be able to analyze data and plan a small commercial building.  
1. Upon completion of the course the student will be able to identify and plan for potential traffic flow as related to a commercial building.  
2. Upon completion of the course the student will be able to interpret data and determine site conditions when designing a commercial building.  
3. Upon completion of the course the student will be able to interpret data apply zoning laws as related to commercial building.
4. Upon completion of the course the student will be able to interpret data and apply building codes as related to a commercial building.
5. Upon completion of the course the student will be able to identify surface materials used on commercial buildings.
6. Upon completion of the course the student will be able to identify and plan for adequate advertising and display space in a commercial building.

**Upon completion of the course the student will be able to identify and define space requirements for a small commercial building.**
7. Upon completion of the course the student will be able to interpret data and design comfort areas for clients and employees.
8. Upon completion of the course the student will be able to interpret data and design merchandising space in a commercial building.
9. Upon completion of the course the student will be able to identify storage needs and design storage space in a commercial building.
10. Upon completion of the course the student will be able to identify future space needs when designing a commercial building.
11. Upon completion of the course the student will be able to identify power, water, HVAC, needs when designing a commercial building.

**Upon completion of the course the student will be able to identify and plan for future building problems.**
12. Upon completion of the course the student will be able to interpret data and identify potential future value estimates in a commercial building.
13. Upon completion of the course the student will be able to interpret data and plan for potential city or county expansion when designing a commercial building.

**Upon completion of the course the student will be able to design and create plans for a small commercial building.**
14. Upon completion of the course the student will be able to identify and differentiate between different styles of construction methods used for commercial buildings.
15. Upon completion of the course the student will be able to identify architectural symbols used on plans for commercial buildings.
16. Upon completion of the course the student will be able to interpret data and analyze a budget when developing a commercial building.
17. Upon completion of the course the student will be able to estimate construction costs for a small commercial building.
18. Upon completion of the course the student will be able to create a presentation drawing for a small commercial building.
19. Upon completion of the course the student will be able to create a plot plan for a small commercial building.
20. Upon completion of the course the student will be able to identify and determine construction materials needs for a small commercial building.
21. Upon completion of the course the student will be able to create a foundation drawing for a small commercial building.
22. Upon completion of the course the student will be able to create plan view drawings for a small commercial building.
23. Upon completion of the course the student will be able to create HVAC drawings for a small commercial building.
24. Upon completion of the course the student will be able to create electrical drawings for a small commercial building.
25. Upon completion of the course the student will be able to create plumbing drawings for a small commercial building.
26. Upon completion of the course the student will be able to create elevation drawings for a small commercial building.
27. Upon completion of the course the student will be able to create detail drawings for a small commercial building.
28. Upon completion of the course the student will be able to interpret data and identify sections on a commercial building drawing.

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 the Academic Resource Center, in Rm. 3354 or call at: 288-7670.