KENTUCKY COMMUNITY AND TECHNICAL COLLEGE SYSTEM

Big Sandy Community and Technical College

Course Syllabus

PS Number: 45181 **Semester:** Fall **Year:** 2009

Faculty Name: Jerry Howard **Title:** Instructor

Course Prefix and Number: DFT 152 **Course Credit Hours:** 4

Course Prerequisites: DFT 122 with a grade of C or better or approval from the program coordinator.

Course Title: Intermediate Computer Aided Drafting

Catalog Course Description: Uses CAD software to produce advanced two- and three-dimensional object drawings. Advanced techniques of drafting, layering, and symbols associated with one or more design applications. Calculations of perimeters, areas, and mass associated with the drawings.

Instructor Contact Information:

Campus Location: Mayo **Building & Room:** E207

Office Hours: Monday -Thursday 3-4:30 p.m.
Friday 8-12:00 p.m.

Office Phone Number: 606-788-2851 **Alternate Number:**

Best Times to Call: 3:00-4:00

KCTCS Email: Jhoward0282@kctcs.edu

Special Instructions: Leave message on the instructor's voice mail or e-mail and you will be contacted.

Supervisor Contact Information:

Name: Keithen McKenzie

Campus Location: Mayo **Building & Room:** C118

Office Phone Number: 606-788-2896

KCTCS Email: keithen.mckenzie@kctcs.edu

Text and Supplies:

- AUTOCAD 2009 TUTORIALS: SECOND LEVEL 3:D MODELING. (ISBN-978-1-58503-434-5)
- 3 Ring Binder, Paper, Pens/Pencil, CDs or Flash Drive

Approved Course Competencies

General Education: (KCTCS General Education Competency Statements and General Education Requirements)

I. Communicate Effectively

1. Read and listen with comprehension.
2. Speak and write clearly using Standard English.
3. Interact cooperatively with others using both verbal and non-verbal means.
4. Demonstrate information processing through basic computer skills.

How Implemented in Class: Students shall pass written and performance examinations of the class. This is a technical course. A student cannot master the required technical skills

II. Think Critically

1. Make connections in learning across the disciplines and draw logical conclusions.
2. Demonstrate problem solving through interpreting, analyzing, summarizing, and/or integrating a variety of materials.
3. Use mathematics to organize, analyze, and synthesize data to solve a problem.

How Implemented in Class: Students shall pass written and performance examinations of the class. This is a technical course. A student cannot master the required technical skills

III. Learn Independently

1. Use appropriate search strategies and resources to find, evaluate, and use information.
2. Make choices based upon awareness of ethics and differing perspectives/ideas.
3. Apply learning in academic, personal, and public situations.
4. Think creatively to develop new ideas, processes, or products.

How Implemented in Class: Students shall pass written and performance examinations of the class. This is a technical course. A student cannot master the required technical skills

IV. Examine Relationships in Diverse and Complex Environments

1. Recognize the relationship of the individual to human heritage and culture.
2. Demonstrate an awareness of the relationship of the individual to the biological and physical environment.
3. Develop an awareness of self as an individual member of a multicultural global community.

How Implemented in Class: Students shall pass written and performance examinations of the class. This is a technical course. A student cannot master the required technical skills

***Course Specific Competencies*:**

Student achieving a passing grade will be able to demonstrate proficiency in the following areas, to a degree commensurate with the grade received.

Upon completion of this course, the student can:

1. Demonstrate, through practice and communications, a comprehensive working knowledge of CAD drafting and the drafting symbols associated with one or more design applications.
2. Produce complex drawings through use of CAD techniques.
3. Use CAD to calculate perimeters and areas for design features.
4. Construct three-dimensional models using various techniques.
5. Project two-dimensional orthographic and axonometric views and sections off of the three-dimensional models.
6. Use advanced CAD operations.

Lab Competencies: (Enter N/A if this does not apply.)

Students achieving a passing grade will be able to demonstrate proficiency in the following areas, to a degree commensurate with the grade received.

Each student through lab exercises will perform the following:

1. Demonstrate, through practice and communications, a comprehensive working knowledge of CAD drafting and the drafting symbols associated with one or more design applications.
2. Produce complex drawings through use of CAD techniques.
3. Use CAD to calculate perimeters and areas for design features.
4. Construct three-dimensional models using various techniques.
5. Project two-dimensional orthographic and axonometric views and sections off of the three-dimensional models.
6. Use advanced CAD operations.

Course Outline:

- Understanding CAD's three-dimensional layout
- User coordinate systems
- 3-D Wireframe Method
- UCS, Viewports and Wireframe Modeling
- Surface Modeling
- Solid Modeling
- Regions, Extrude and Solid Modeling
- Multiview Drawings from 3D Models
- Symmetrical Features in Designs
- Mid Term
- Advance Modeling Tools and Techniques
- Conceptual Tools and Techniques
- Final

Course Structure:

Methods of Instruction include lectures, hands-on experience and lab projects

Technology/Media Component:

Web Support: Students will visit the AutoDesk web site for software help and other web sites as it relates to subject content.

Service-Learning:
NA

Course Requirements and Evaluation:

1. Daily Lab Work = 25% (work consist of construction of drawings, tutorial assignments, projects, class participation).
2. Drawings Problems = 25%
3. Test/Quizzes = 20% (Written and/or drawing test will be given at the end of each unit/task covered. Quizzes can be administered anytime – no make-up on quizzes
4. Final = 20% (The final could be either a written or performance of skill, such as a drawing assignment or drawing project.
5. Notebook=10% (Course work throughout the entire semester).

Grading Policy:

A= 100-90%
B= 89-80%
C= 79-70%
D= 69-Failing

Attendance Policy:

Regular attendance is expected of all students in all course activities. Any class/lab sessions missed, regardless of the course, reduces the opportunity for learning and may adversely affect the grade the student achieves in a course. Any course work missed due to an absence must be made up on the student's time. Students are responsible for their absences.

Missed Exam Policy:

No make-up exams shall be given unless a prior arrangement has been made with the instructor prior to missing an exam.

Late Assignment Policy:

Assignments dates will be posted and must be completed within the timeframe provided. NO EXCEPTIONS

Withdrawal Policy:

The last day to withdraw from this class and receive a W grade is the mid-term date listed in the college schedule. Any request for withdrawal after the date would be limited on the circumstances such as illness and student's past effort. It is the responsibility of the student to withdraw from class. No request for withdrawal from the course during the last week of classes (a week before the final exam) will be accepted.

ARTICLE II - ACADEMIC POLICIES AND PROCEDURES

http://www.kctcs.edu/student/studentcodeofconduct.pdf

(*Referenced in the Rules of the Community College Senate, Section VII and in the Rules of the Technical College Senate, Section VII).* The following information is available on the BSCTC Homepage: www.Bigsandy.kctcs.edu go to Current Students and under Right to Know click on Student Code of Conduct. Paper copies of all the documents listed under Right to Know are also available upon request at the Admissions Office or Library on the Mayo, Pikeville and Prestonsburg Campuses.

2.1 Academic Honesty Policy
2.2 Academic Rights of Students
2.2.1 Information about course content criteria
2.2.2 Information about course grading
2.2.3 Contrary opinion
2.2.4 Academic evaluation
2.2.5 Academic records
2.2.6 Evaluation of student character and

ability

2.3 Student Academic Offenses and Academic Sanctions **2.3.1 KCTCS Academic Offenses**
2.3.1.1 *Plagiarism* **2.3.1.2 *Cheating***
2.3.1.3 *Student Co-Responsibility* **2.3.1.4 *Misuse or Student Falsification of Academic Records***
2.3.2 Academic Sanctions/Penalties of Students **2.3.2.2 *Other Academic Sanctions***

2.4 Student Appeals and Responsibilities **2.4.1 Student Responsibilities**

2.4.1.1 *Responsibility Involving Academic Rights of Students (section 2.0)*
Please refer to flowchart: ***Appeals in Cases of an Alleged Violation of Student Academic Rights* Figure 1) 2.4.1.2 *Responsibility Involving Academic Offenses (section 2.3)*** When a student is believed to be guilty of any of the four academic offenses (2.3.1.1 – 2.3.1.4), a student will find information concerning responsibilities of college personnel in section 2.5.2.

Safety and Security - The following information is available on the BSCTC Homepage at:
http://www.bigsandy.kctcs.edu/safety_security/index.html
Safety Handbook v. 08-09, KCTCS Emergency Notification System Guidelines, Emergency Management in the Instructional Setting, and Opt-in for SNAP Safety Notification and Alert Process.

Center for Enrichment Resources
http://www.bigsandy.kctcs.edu/student_support/cer/
The BSCTC Center for Enrichment Resources (CER) offers students academic assistance in all subject areas. Campus Locations: **Prestonsburg Campus**: Magoffin Building 219; **Pikeville Campus**: N204; **Mayo Campus**: C200 and 202.

Additional Information Available at the Current Student Portal
http://www.bigsandy.kctcs.edu/current_students

Online Access Information	Student Services	Registration
College Life	Academic Information	Right to Know

Americans with Disabilities Act (ADA)Statement
http://www.bigsandy.kctcs.edu/student_support/disability

Students with disabilities: If you are in need of an accommodation because of a documented disability, you are required to register with Disability Support Services each semester.

Contact: **Janie Beverley, Coordinator for Disability Support Services; Student Center Room 103; Ph: (606) 886-7359; Toll-free 888-641-4132, ext. 67359; Email:** janie.beverley@kctcs.edu

Course Number DFT 152 **PeopleSoft Number** 45181
Semester Fall 2009
Instructor Jerry C. Howard

THE COURSE SYLLABUS INCLUDES THE FOLLOWING ITEMS, WHICH SHOULD BE SUBMITTED IN THIS ORDER:

As identified in the KCTCS and the BSCTC Catalogs:

☒ Course Prefix and Number
☒ Course Title
☒ Course Credit Hours
☒ Official Course Description
☒ Course Prerequisites

Additional Information:

☒ Instructor's Name
☒ Instructor's Phone Number
☒ Instructor's E-mail
☒ Instructor's Office Location (Adjunct Faculty should also include a college contact, such as a program coordinator, associate dean, and administrative assistant – name, phone number, and office location).
☒ Required Text(s) and Supplies
☒ Approved Course Competencies (KCTCS General Education Competency Statements and General Education Requirements)
I. Communicate Effectively
II. Think Critically
III. Learn Independently
IV. Examine Relationships in Diverse and Complex Environments
☒ Course Outline
☒ Course Structure
☒ Technology/Media Component
☒ Service-Learning (If applicable)
☒ Course Requirements and Evaluation/Grading Policy
☒ Attendance Policy
☒ Withdrawal Policy
☒ Statement of Student Cheating & Plagiarism (as printed in the KCTCS Code of Student Conduct)
☒ ADA Statement (Americans with Disabilities Act)
☒ Center for Enrichment Resources

To be attached:

☒ Office Hours (Must be attached when syllabus is distributed)

INSTRUCTOR: Jerry Howard (E-Signed) **Date**: 5-4-2009
(Signature)

REVIEWED: _____ **Date**: _____
(Associate Dean - Signature)

Received in the Office of the Provost: _____

Date Revised: 07-21-2006