

Bergen Community College
Division of Math, Science and Technology
Computer Science, Engineering & Information Technologies

Course Syllabus
MFG-220 Pro/CREO® Design III

Semester and year:
Course Number:
Meeting Times and Locations:

Instructor:
Office Location:
Phone:
Office Hours:
Email Address:

COURSE DESCRIPTION:

MFG-220 Pro/CREO® Design III includes advanced techniques for the design and analysis using Creo/ MECHANICA & SURFACE. Emphasis will be placed on the technology as well as utilizing advanced techniques in relation to both lab exercises as well as a practical design. Lecture, lab and a comprehensive project will be used to teach how to use specific features of the software in relation to product design.

2 lecture, 2 lab, 3 credits

Prerequisites: MFG-219 Pro/Engineer® Design II

STUDENT LEARNING OBJECTIVES:

As a result of meeting the requirements in this course, students will be able to:

Student performance on these objectives will be measured by:

1. Demonstrate the ability to copy common features from model to model	Graded modeling assignments and exams.
2. Identify the advanced techniques necessary to document detailed drawings	Graded modeling assignments and exams.
3. Examine the ability to design within large assemblies	Graded modeling assignments.
4. Identify with the basics of Sheetmetal design	Graded modeling assignments.

COURSE CONTENT:

CHAPTER TOPIC

- 5. User Defined Features (UDF's)
- 6. Pro/Program and Layers
- 7. Advanced Drawing Functions
- 8. Assemblies

** Subsequent material will be in the form of hand-outs

TEXTBOOK: Creo 5.0 Advanced Tutorial (Wildfire)

Roger Toogood – Schroff Development Corporation, Shawnee-Mission
Kansas (www.schroff.com) ISBN #978-1-58503-540-3

** Subsequent material will be in the form of hand-outs

EVALUATION: A. MODELING EXERCISES	40%	B.
MIDTERM EXAM	15%	
C. FINAL EXAM	25%	
D. CLASS PARTICIPATION	20%	
	Total: 100%	

Attendance policy:

BCC Attendance Policy: “All students are expected to attend punctually every scheduled meeting of each course in which they are registered. Attendance and lateness policies and sanctions are to be determined by the instructor for each section of each course. These will be established in writing on the individual course outline. Attendance will be kept by the instructor for administrative and counseling purposes.”

MFG-220 Pro/CREO® Design III

Class

Meeting Date Topic Chapter 1 CREO/Parametric Review / Head Lamp Assy - 2 Advanced

Rounds / Tweaks, drafts 3

3 Advanced Patterns / Family Tables 4

4 Family Tables 4 5 User Defined Features 5

6 Pro/Program & Layers 6

7 Assembly Drawing Functionality 7 8 Assembly Functionality / Review 8 9

Midterm Examination

10 Advanced Assembly Function 8 11 Advanced Assembly Function 8 12 Pro/Surface

Handout 13 Pro/Surface - 14 Review - 15 Final Examination

Civility/Classroom Conduct

As a college of choice, Bergen Community College provides a comfort level that enables students of all abilities to mature as learners and engaged citizens. Therefore, it is important that this class provide a stimulating, rigorous, and inclusive learning environment. To that end, students must demonstrate respect to others and to ideas and opinions expressed in the class. Use of cell phones and laptops is prohibited, unless special permission is granted. Anyone not following these standard procedures may be asked to remove him/herself from the class.

Services for Students with Disabilities:

A wide variety of services are available for students with documented disabilities through the Office of Special Services (OSS) [Room S – 131, (201) 612-5270]. OSS is dedicated to serving students with physical, visual, learning, hearing, and emotional disabilities. If a student has been classified in high school or had a 504 plan, it is highly recommended that the student contact OSS during the college application process. A more detailed explanation can be found on the College web site, www.bergen.edu. Personal information is kept confidential. Examples of the types of accommodations and services include: Extended test taking time Organizational strategies.