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

Course Syllabus MFG-219 Pro/CREO® Design II

	Semester and year:		
	Course Number: Meeting Times and Locations:		
	Meeting Times and Locations.		
	Instructor:		
	Office Location:		
	Phone:		
	Office Hours:		
	Email Address:		
	COURSE DESCRIPTION:		
	MFG-219 Pro/CREO® Design II is a study of the intermediate to advanced functionality of		
	Parametric Technology Corp.'s Pro/CREO® 3D solid modeling software. Emphasis will be placed on the technology as well as the various design techniques in relation to this advanced		
	tool. Lecture and lab will be used to teach not only how to use specific features of the software		
	but also how to use it in design.		
	2 lecture, 2 lab, 3 credits		
	Prerequisites: MFG-119 Pro/CREO® Design I		
	1		
	CTUDENT LEADNING ODJECTIVES		
	STUDENT LEARNING OBJECTIVES:		
	As a result of meeting the requirements	Student performance on these objectives will be	
	in this course, students will be able to:	measured by:	
	1. Realize the value of design within assembly	Graded modeling assignments and exams.	
	1. Realize the value of design within assembly	Graded moderning assignments and exams.	
	2. Implement the fundamentals of customizing	Graded modeling assignments.	
	Pro/CREO interface		
	3. Utilize advanced modeling techniques	Graded modeling assignments.	

Graded modeling assignments and exams.

4. Recognize the capabilities of Pro/CREO as a

Mechanical Engineering tool

COURSE CONTENT: CHAPTER TOPIC 10. Assembly Operations

- 11. Sweeps
- 11. Blends

Advanced Textbook

- 1. The Pro/E Interface and Customization
- 2. Helical and Variable Section Sweeps
- 3. Advanced Rounds and Tweaks
- 4. Patterns and Family Tables

TEXTBOOK: <u>Creo/Parametric Tutorial (Wildfire) – A Click-by-Click Primer</u> Roger Toogood – Schroff Development Corporation, Shawnee-Mission Kansas (www.schroff.com) ISBN #978-1-58503-415-4

Creo/Parametric Advanced Tutorial (Wildfire)

Roger Toogood – Schroff Development Corporation, Shawnee-Mission Kansas (www.schroff.com) ISBN #978-1-58503-380-5

EVALUATION: A. MODELING EXERCISES	40% B.
MIDTERM EXAM	15%
C. FINAL EXAM	
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-219 Pro/CREO® Design II

Class

Meeting Date Topic Chapter 1 Review of Pro/Engineer – Assembly Operations 9 2

Assembly Operations / Sweeps 10/11 3 Sweep & Blends 11 4 Sweeps & Blends

(Continued) 11 5 Pro/CREO Customization Tools, Helical Sweeps 1,2

6 Helical Sweeps/Var. Section Sweeps / Review 2 7 Advanced Rounds, Drafts, and

Tweaks 3 8 Midterm Examination

9 Advanced Patterns & Family Tables 4 10 Advanced Patterns & Family Tables (Continued) 4 11 User Defined Features (UDFs) 5 12 Review

13 Open Lab

14 Final Examination

15 Last Date to Finish Exercises and Review of Final Exam

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.