Course Syllabus
Machine Drafting
DFTG 2302

Semester with Course Reference Number (CRN)	Fall 2015 6161/78048
Instructor contact information (phone number and email address)	Thomas Wong 281-734-0522 thomas.wong@hccs.edu
Office Location and Hours	Call for appointments
Course Location/Times	301 N. Drennan, Room 220 Saturday 8:00AM-3:00 PM
Course Semester Credit Hours (SCH) (lecture, lab) If applicable	Credit Hours: 3 Lecture Hours: 2 Laboratory Hours: 4 External Hours: 27
Total Course Contact Hours	96.00
Course Length (number of weeks)	12 Weeks
Type of Instruction	Lecture/Lab
Course Description:	Production of detail and assembly drawings of machines, threads, gears, cams, tolerances and limit dimensioning, surface finishes, and precision drawings.
Course Prerequisite(s)	**PREREQUISITE(S):** • DFTG 1333 - Mechanical Drafting • DFTG 1309 – Basic CAD (Optional) • DFTG 1305 – Technical Drafting
Academic Discipline/CTE Program Learning	

Outcomes

Course Student Learning Outcomes (SLO): 4 to 7	1. Understand principals of assembly drawings. 2. Analyze parameters of connection, different types of elements for positioning and fixation. 3. Understand principals of projecting parts for dynamic elements system. 4. Understanding of projecting 3D elements from 2D drawings.
Learning Objectives (Numbering system should be linked to SLO - e.g., 1.1, 1.2, 1.3, etc.)	Upon completion of the course, the student should be able to: 1. Do file maintenance and operate the CAD system. 2. Use basic commands related to drawing, editing, dimensioning geometry, text input and editing. 3. Be able to create, annotation and dimension. 4. Be able to build and edit a solid model using Modification processes.
SCANS and/or Core Curriculum Competencies: If applicable	SCANS Advance techniques in the creation of 2D drawings. Creating and use of Templates and CAD Libraries Annotation and Dimensioning Techniques Creation and use of work planes, work axes, base points The techniques in the creation of solid models Correction of sketches and diagram geometry Creation of assemblies Ability to output a drawing in paper drawing Ability to work with part and assembly drawings
Instructional Methods	In Person
Student Assignments	Drawing assignments from each chapter will be assigned to enhance the learning of the AutoCAD software. Each assignment will stress the basic skills that a student must have to gain proficiency in the use of the drawing software. The assignment will enhance the student ability to produce a clear and accurate drawing. A minimum of two exams will be equally space during the semester. (Individual instructors may schedule more test if desired)
Student Assessment(s)	Students will be assessed on completeness of each assignment, the accuracy and scale, the organizational acumen, the clarity of the presentation and the proper layout and composition.
Instructor's Requirements	Students must exemplify professionalism in the execution of each assignment. They must demonstrate dedication to solving complex problems and a commitment to a superior work ethic.
Program/Discipline Requirements: If applicable	

HCC Grading Scale:	A = 100- 90	4 points per semester hour
	B = 89 - 80:	3 points per semester hour
	C = 79 - 70:	2 points per semester hour
	D = 69 - 60:	1 point per semester hour
	59 and below = F	0 points per semester hour

FX (Failure due to non-attendance)	0 points per semester hour
IP (In Progress)	0 points per semester hour
W (Withdrawn)	0 points per semester hour
I (Incomplete)	0 points per semester hour
AUD (Audit)	0 points per semester hour

IP (In Progress) is given only in certain developmental courses. The student must re-enroll to receive credit. COM (Completed) is given in non-credit and continuing education courses.

FINAL GRADE OF FX: Students who stop attending class and do not withdraw themselves prior to the withdrawal deadline may either be dropped by their professor for excessive absences or be assigned the final grade of "FX" at the end of the semester. Students who stop attending classes will receive a grade of "FX", compared to an earned grade of "F" which is due to poor performance. Logging into a DE course without active participation is seen as non-attending. Please note that HCC will not disperse financial aid funding for students who have never attended class.

Students who receive financial aid but fail to attend class will be reported to the Department of Education and may have to pay back their aid. A grade of "FX" is treated exactly the same as a grade of "F" in terms of GPA, probation, suspension, and satisfactory academic progress.

To compute grade point average (GPA), divide the total grade points by the total number of semester hours attempted. The grades "IP," "COM" and "I" do not affect GPA.

Health Sciences Programs Grading Scales may differ from the approved HCC Grading Scale. For Health Sciences Programs Grading Scales, see the "Program Discipline Requirements" section of the Program's syllabi.

Instructor Grading Criteria

35% homework average, 35% test average, 30% final exam

Instructional Materials

Technical Drawing 13th edition), Giesecke, Mitchell, Spencer

HCC Policy Statement:

Access Student Services Policies on their Web site:

http://www.hccs.edu/district/about-us/procedures/student-rights-policies--procedures/

HCC ADA STATEMENT (Services to Students with Disabilities

Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at the respective college at the beginning of each semester. Faculty is authorized to provide only the accommodations requested by the Disability Support Services Office. For questions, please contact (713) 718-8397 or the Disability Counselor at your college.
To visit the ADA Web site, please visit:
http://learning.hccs.edu/programs/counseling/counselors-1

EGLS3 -- Evaluation for Greater Learning Student Survey System	At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time near the end of the term, you will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and department chairs for continual improvement of instruction. Look for the survey as part of the Houston Community College Student System online near the end of the term.

Distance Education and/or Continuing Education Policies

Access DE Policies on their Web site:	http://de.hccs.edu/media/houston-community-college/distance-education/student-services/2015-HCC-DE-Student-Handbook-(Revised-1_7_15).pdf
Access CE Policies on their Web site:	http://www.hccs.edu/continuing-education/students/financialaid/continuing-education/
HCC Public Emergency Plan 3-7-11	http://www.hccs.edu/district/departments/police/crime-prevention--safety/hcc-public-emergency-plan/