



Architectural and Engineering Computer Aided Design Degree Plan

Mechanical Graphics Specialization-Effective Fall 2009-2010

STUDENT: _____

DATE: _____

ADVISOR _____

REQUIRED MECHANICAL COURSES*		
DFTG-1405	Technical Drafting (AutoCAD)	
DFTG-2419	Intermediate CAD (AutoCAD)	
DFTG-1433	Mechanical Drafting (INVENTOR)	
DFTG-1458	Electrical/Electronic Drafting (AutoCAD)	
DFTG-2402	Machine Drafting (INVENTOR)	
DFTG-2412	Technical Illustration (3DS MAX & ILLUSTRATOR)	
DFTG-2440	Solid Modeling/Design (ProE)	
DFTG-2473	Introduction to CAD/CAM (MASTERCAM)	
DFTG-1495	ST in Mech Drafting: (SOLIDWORKS)	
	Restricted Elective See list at right->	
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	Restricted Elective See list at right->	
DFTG -1491+	Special Topics: PORTFOLIO (ALL)	

Notes:

RESTRICTED ELECTIVES*		
DFTG-1417	Architectural Drafting – Residential (AutoCAD)	
DFTG-1475	Advanced Pro E Surface Modeling (ProE)	
DFTG-1492	ST in Arch Drafting: Advanced Residential (AutoCAD/REVIT)	
DFTG-1494	ST in Electronic CAD: IC LAYOUT III (CADENCE)	
DFTG-1495	ST in Mech Drafting: (MEMS)	
DFTG-2405	Printed Circuit Board Design (CADENCE ALLEGRO)	
ARCE-1452***	Structural Drafting (AutoCAD)	
DFTG-1493	ST in Advanced Civil Drafting (CIVIL 3D)	
DFTG-2428	Architectural Drafting – Commercial (REVIT Architecture)	
DFTG-2430	Civil Drafting (LAND DESKTOP)	
DFTG-2432	Advanced Computer-Aided Drafting (AutoCAD)	
DFTG-2436	Computer-Aided Drafting Programming (AutoCAD)	
DFTG-2470	IC Layout and Design I (CADENCE VIRTUOSO)	
DFTG-2471	IC Layout and Design II (CADENCE VIRTUOSO)	
DFTG-2474	Architectural Modeling (AutoCAD & 3DS MAX)	
MCHN-1419	Manufacturing Materials & Processes (MASTERCAM)	
ENGR-1201	Introduction to Engineering	
GEOG-2470**	Intro to Geographic Information Systems (ARCVIEW)	
WLDG-1437	Introduction to Metallurgy	

GENERAL EDUCATION COURSE (Choose from list below to equal 15hrs.)		
English		
Math		
Oral Communication		
Arts & Humanities		
Social Behavior & Science		

Choose (1) class from each category below:

ENGLISH

ENGL 1301 English Composition I
ENGL 1302 English Composition II
ENGL 2311 Business/Technical Writing

MATH

MATH 1314 College Algebra
MATH 1316 Trigonometry
MATH 1324 Math for Business & Economics
MATH 1332 College Mathematics
MATH 1333 Mathematics for Measurement
MATH 1342 Elementary Statistics
MATH 2318 Linear Algebra
MATH 2413 Calculus I
MATH 2414 Calculus II

SPEECH

SPCH 1311 Intro to Speech Communication
SPCH 1315 Fundamentals of Public Speaking
SPCH 1318 Interpersonal Communication
SPCH 1321 Business & Professional Speaking

SOCIAL BEHAV & SCIENCE

ANTH 2301 Physical Anthropology
ANTH 2351 Cultural Anthropology
ANTH 2302 Introduction to Archaeology
ECON 2302 Principles of Microeconomics
ECON 2301 Principles of Macroeconomics
GEOG 1301 Physical Geography
GEOG 1302 Cultural Geography
GOVT 2305 American Government
GOVT 2306 Texas State & Local
HIST 1301 U. S. History I
HIST 1302 U. S. History II
HIST 2301 Texas History
HIST 2327 U. S. History I: Mexican-
HIST 2328 U. S. History II: Mexican-
PSYC 2301 Intro to Psychology
SOC 1301 Intro to Sociology

ARTS & HUMANITIES

ARTS 1301 Intro to the Visual Arts
ARTS 1303 Art History I
ARTS 1304 Art History II
COMM 1335 Intro to Radio and Television
DANC 2303 History & Appreciation of Dance
DRAM 1310 Introduction to the Theatre
DRAM 2366 Film Appreciation
ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2342 Introduction to Literature I
ENGL 2343 Introduction to Literature II
FREN 1511 French I
FREN 1512 French II
FREN 2311 French III
FREN 2312 French IV
GERM 1511 German I
GERM 1512 German II
GERM 2311 German III
GERM 2312 German IV
HUMA 1301 Intro to Humanities
HUMA 1315 The Arts in Contemporary Society
JAPN 1511 Japanese I
JAPN 1512 Japanese II
JAPN 2311 Japanese III
JAPN 2312 Japanese IV
LATI 1511 Latin I
LATI 1512 Latin II
LATI 2311 Latin III
LATI 2312 Latin IV
MUSI 1301 Music Fundamentals
MUSI 1306 Music Appreciation
PHIL 1301 Intro to Philosophy
PHIL 2303 Logic
PHIL 2306 Ethics
RUSS 1511 Russian I
RUSS 1512 Russian II
RUSS 2311 Russian III
RUSS 2312 Russian IV
SPAN 1511 Spanish I
SPAN 1512 Spanish II
SPAN 2311 Spanish III
SPAN 2312 Spanish IV

² See General Education Course list in ACC Catalog.

*Principal CAD software used in course shown in parenthesis-may be subject to change.

**Replaces DFTG 2472 and GEOG 1410 in previous A&E CAD degree plans. Students who have credit for DFTG 2472 or GEOG 1410 should not enroll in GEOG 2470.

*** ARCE 1452 replaces DFTG 2410 in previous A&E CAD degree plans. Students who have credit for DFTG 2410 should NOT enroll in ARCE 1452.

+Capstone Course offered via Distance Learning

NOTE: There is some flexibility within the degree plans. See your A&E CAD faculty advisor for more information or to schedule an advising appointment (512) 223-4841.