



# Architectural and Engineering Computer Aided Design Degree Plan

## Architectural Graphics Specialization-Effective Fall 2009-2010

STUDENT: \_\_\_\_\_

DATE: \_\_\_\_\_

ADVISOR \_\_\_\_\_

| REQUIRED ARCHITECTURAL COURSES* |  |
|---------------------------------|--|
| DFTG-1405                       | Technical Drafting (AutoCAD)                             |
| DFTG-2419                       | Intermediate Computer-Aided Drafting (AutoCAD)           |
| DFTG-1417                       | Architectural Drafting – Residential (AutoCAD)           |
| ARCE-1452***                    | Structural Drafting (AutoCAD)                            |
| DFTG-2412                       | Technical Illustration (3DS MAX & ILLUSTRATOR)           |
| DFTG-2428                       | Architectural Drafting – Commercial (REVIT Architecture) |
| DFTG-2430                       | Civil Drafting (LAND DESKTOP)                            |
| DFTG-2432                       | Advanced CAD (AutoCAD)                                   |
| DFTG-2474                       | Architectural Modeling (AutoCAD & 3DS MAX)               |
|                                 | Restricted Elective<br>See list at right->               |
|                                 | Restricted Elective<br>See list at right->               |
|                                 | Restricted Elective<br>See list at right->               |
| DFTG-1491+                      | Special Topics: CAD Portfolio (ALL)                      |

| RESTRICTED ELECTIVES* |   |
|-----------------------|---|
| DFTG-1433             | Mechanical Drafting (INVENTOR)                            |
| DFTG-1458             | Electrical/Electronic Drafting (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: (SOLIDWORKS)                         |
| DFTG-1495             | ST in Mech Drafting: (MEMS)                               |
| DFTG-2402             | Machine Drafting (INVENTOR)                               |
| DFTG-1493             | ST in Advanced Civil Drafting (CIVIL 3D)                  |
| DFTG-2436             | Computer-Aided Drafting Programming (AutoCAD)             |
| DFTG-2440             | Solid Modeling/Design (ProE)                              |
| DFTG-2470             | IC Layout and Design I (CADENCE VIRTUOSO)                 |
| DFTG-2471             | IC Layout and Design II (CADENCE VIRTUOSO)                |
| DFTG-2405             | Printed Circuit Board Design (CADENCE ALLEGRO)            |
| DFTG-2473             | Introduction to CAD/CAM (MASTERCAM)                       |
| CNBT-1411             | Construction Methods & Materials                          |
| GEOG-2470**           | Intro to Geographic Information Systems (ARCVIEW)         |
| MCHN-1419             | Manufacturing Materials and Process (MASTERCAM)           |
| ENGR-1201             | Introduction to Engineering                               |

| GENERAL EDUCATION COURSE<br>(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 History  
HIST 1301 U. S. History I  
HIST 1302 U. S. History II  
HIST 2301 Texas History  
HIST 2327 U. S. History I: Mexican-American  
HIST 2328 U. S. History II: Mexican-American  
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

Notes:

<sup>2</sup> 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.