

ENGINEERING DESIGN GRAPHICS, ASSOCIATE OF APPLIED SCIENCE



PLAN OF STUDY

3EDG

First Year

First Term		Credits
DFTG 1305	Introduction to Technical Drawing	3
DFTG 1409	Basic Computer-Aided Drafting	4
ENGL 1301	Composition I ¹	3
or ENGL 2311	or Technical and Business Writing	
Language, Philosophy, and Culture (Humanities) ¹		3
or Creative Arts (Fine Arts)		
Credits		13

Second Term

DFTG 1417	Architectural Drafting-Residential	4
DFTG 1445	Parametric Modeling and Design	4
DFTG 2423	Pipe Drafting	4
Credits		12

Third Term

SPEECH ¹		3
MATH 1332	Contemporary Mathematics (Quantitative Reasoning) ¹	3
or MATH 1314	or College Algebra	
Credits		6

Second Year

First Term

DFTG 2407	Electrical Drafting	4
Select one (1) course from the three (3) Specializations :		4
Architectural/Civil/Structural Specialization		
Mechanical Specialization		
Energy/Industrial Specialization		
DFTG 2317	Descriptive Geometry	3
Social and Behavior Sciences ¹		3
Credits		14

Second Term

Select three (3) courses from the three (3) Specializations not previously selected:		12
Architectural/Civil/Structural Specialization		

Mechanical Specialization		
Energy/Industrial Specialization		
DFTG 2386 or DFTG 2338	Internship-Drafting and Design Technology/ Technician ² or Final Project - Advanced Drafting	3
Credits		15
Total Credits		60

Capstone Experience: DFTG 2386 Internship-Drafting and Design Technology/Technician or DFTG 2338 Final Project - Advanced Drafting

¹ Courses do not have to be taken in this order unless a course has a prerequisite.

² The course selected to satisfy the Capstone Experience (DFTG 2386 Internship-Drafting and Design Technology/Technician or DFTG 2338 Final Project - Advanced Drafting) can only be taken during, or after, the term in which the last required engineering design graphics courses are completed.

Courses may be applied to earn the Certificate of Technology, then the Level 2 Certificate, and finally the Associate of Applied Science (AAS) degree.

For the four (4) semester credit hours of the Second Year/First Term, students follow one (1) of the three (3) specializations: Architectural/Civil/Structural Specialization, Mechanical Specialization or Energy/Industrial Specialization taking the Elective listed under each specialization below this Plan of Study.

For the 12 semester credit hours of the Second Year/Second Term, students select one (1) of the three (3) specializations: Architectural/Civil/Structural Specialization, Mechanical Specialization or Energy/Industrial Specialization taking the Electives listed under each specialization below this Plan of Study.

For more detailed information on this program, students may contact the Department Chair or full-time faculty.

Electives

Code	Title	Credits
Architectural/Civil/Structural Specialization		
ARCE 1415	Structural Steel Detailing	
ARCE 1421	Architectural Illustration	
ARCE 1452	Structural Drafting	
DFTG 1430	Civil Drafting I	
DFTG 2421	Topographic Drafting	
DFTG 2428	Architectural Drafting-Commercial	
DFTG 2431	Advanced Technologies in Architectural Design and Drafting	
Mechanical Specialization		
DFTG 1433	Mechanical Drafting	
DFTG 2402	Machine Drafting	
DFTG 2406	Machine Design	
DFTG 2435	Advanced Technologies in Mechanical Design and Drafting	
DFTG 2440	Solid Modeling/Design	
DFTG 2450	Geometric Dimensioning and Tolerancing	
DFTG 2458	Advanced Machine Design	

Energy/Industrial Specialization

ARCE 1452	Structural Drafting
DFTG 1430	Civil Drafting I
DFTG 2408	Instrumentation Drafting
DFTG 2421	Topographic Drafting
DFTG 2445	Advanced Pipe Drafting
DFTG 2457	Advanced Technologies in Pipe Design and Drafting