

TOPS University Associate of Applied Science: Industrial Engineering Technology Concentration in Engineering Graphics

Postsecondary Partner: Bossier Parish Community College

Overview

The Associate of Applied Science in Industrial Engineering Technology with concentration in Engineering Graphics provides the graduate with the skills needed to enter the broad field of engineering graphics. The degree prepares individuals to function as entry level graphics specialists, and includes instruction on types of views, line and dimensioning standards, and spatial relationships of surfaces as typically used in engineering, industry, and architecture. The curriculum emphasizes 2-D and 3-D techniques, as well as computer software programs used in industry.

Capstone Credentials

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
	-Autodesk Certified		-Associate of Applied
	User AutoCAD		Science: Industrial
	-Certificate of Technical		Engineering
	Studies: Engineering		Technology
	Graphics		Concentration in
			Engineering Graphics

^{*}Core Academic Course

^{**}Jump Start CTE Course

Grade 9		
Semester 1	Semester 2	
*English I 120331	*Fine Arts	
*Algebra 160321	*Geometry 160323	
*Environmental Science 150310	*English II 120332	
*Civics 220501/220504	*½ Health 190500 & ½ PE II 190106	

Grade 10		
Semester 1	Semester 2	
*English III 120333	*Chemistry 150401	
*Biology 150301	*U.S. History 220403	
*Algebra II 160322	*PE I 190105	
*Foreign Language I	*Foreign Language II	

Additional and/or equivalent TOPS core aligned courses can be found in Bulletin 741.





Grade 11				
Semester 1		Semester 2		
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code	
*ENGL 101:	*English IV: DE - CENL	**TEED 144:	**TBD	
Composition and	1013 English	Intermediate Computer		
Rhetoric	Composition I 120606	Drafting		
*MATH 102: College	*Algebra III: DE - CMAT	**TEED 150:	**TBD	
Algebra	1213 College Algebra	Pneumatics or TEED		
	160500	153 Hydraulics/Fluid		
		Dynamics with Lab		
**TEED 101:	**TBD	**TEED 171: Building	**TBD	
Fundamentals of		Information Modeling I		
Electricity and Lab				
Cert: Precision Exams				
Electronics I				
**TEED 142: Print	**TBD	*Social/Behavioral	*Economics: DE/CECN	
Reading for		Science Elective: BADM	2213 MacroEconomics	
Engineering and		201: Principles of	220608	
Manufacturing		Macroeconomics		
**TEED 143:	**TBD	*Math 112:	*Adv Math-Pre Calc:	
Introductory Computer		Trigonometry	DE- CMAT 1223	
Drafting			Trigonometry 160501	
Cert: Autodesk				
AutoCAD Certified User				
Certification		1.10		
C		de 12	-t2	
	ster 1	Semester 2		
**SPCH 110: Public	**DE Speech LOE 1101	*PHSC 105 Elemental	*Physics I 150000 or	
Speaking	**DE Speech 051101	Physics or PHYS 201:	150700	
Speaking		General Physics	150700	
**TEED 158: Computer	**TBD	**AMFG 210:	**TBD	
Drafting Applications	עסו	Computer Aided	טפו	
and Laboratory		Manufacturing		
**TEED 161: Solid	**TBD	**Industrial	**TBD by course	
Works 3D	100	Technology Technical	selected	
WOIKS 3D		Elective	Selected	
**TEED 260:	**TBD	**TEED 220: Advanced	**TBD	
Mechatronics Level I	, 55	Solid Works 3D		
Cert: Siemens Level I		55.14 11511.555		
**Industrial	**TBD by course	*Humanities Elective:	*World History: DE-	
Technology Technical	selected	HIST 101: Western	CHIS 1113 World	
Elective		Civilization I	Civilization I 220450	
		OR HIST 102 Western	OR World History: DE -	
		Civilization II	CHIS 1123 World	
			Civilization II 220451	







Approved Electives

Postsecondary Course	LDOE Course/Code
**AMFG 110: Manufacturing Materials and Methods	**TBD
**AMFG 202: Introduction to Lean Manufacturing and Six Sigma Cert: Lean Six Sigma	**TBD
**OGPT 101: Introduction to the Exploration and Production of Oil and Gas	**TBD
**TEED 102: Fundamentals of Electricity and Lab II	**TBD
**TEED 201: Introduction to Digital Electronics and Programmable Logic Controllers	**TBD
**TEED 252: Electric Motor Controls and Laboratory	**TBD

This pathway framework is an outline of how the approved courses can be implemented. Schools may opt to rearrange the order of course sequencing in order to meet local scheduling requirements. Additionally, Fast Forward pathways are dynamic and the Jump Start Review Panel will consider course equivalents on an as needed basis.

