TOPS University Associate of Applied Science: Industrial Technology Concentration in Drafting and Design

Postsecondary Partner: Southeastern Louisiana University

Overview

The Associate of Applied Science in Industrial Technology degree program is designed to enable graduates to enter various fields of industry after completing two years of study. Graduates may also elect to continue their education in the four-year Industrial Technology Program. The Associate of Applied Science in Drafting and Design is a professional industrial technologist with a broad technical and managerial background. Typically included in this background are a functional knowledge and understanding of materials and production processes; industrial management and human relations; communication skills, the physical sciences, mathematics, and current technical skills to enable the graduate to effectively meet technical, managerial, and industrial requirements.

Capstone Credentials

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
-NCCER Carpenter Helper -OSHA 10 -OSHA 30 -AutoDesk Revit	-ADDA Certified Architectural Apprentice Drafter -Autodesk Certified User AutoCAD -NCCER Carpentry Level I	-Autodesk Certified User Inventor -NCCER Carpentry Level 2	-Associate of Applied Science: Industrial Technology Concentration in Drafting and Design

*Core Academic Course
**Jump Start CTE Course*

Grade 9	
Semester 1	**Semester 2**
*English I 120331	*Algebra I 211001
**Basic Technical Drafting 110560	*Foreign Language I
*Biology 321001	*Physical Education I 711001
*Civics 220501/220504	*Fine Arts Survey 030332

Grade 10	
Semester 1	**Semester 2**
*English II 121001	*½ Physical Education II 711002 ½ Health Education 721001
*Geometry 211101	*Physical Science 361001
*World Geography 220300	*Foreign Language II
**Advanced Technical Drafting 110590	*Algebra II 160322

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

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Grade 11			
Semester 1		**Semester 2**	
Postsecondary Course	**LDOE Course/Code**	**Postsecondary Course**	**LDOE Course/Code**
*Freshmen Composition ENGL 101	*English III: DE-CENL 1013 English Composition I 136001	*Critical Reading and Writing ENGL 102	*English IV: DE-CENL 1023 English Composition II 146002
*College Algebra MATH 161	*Algebra III: DE-CMAT 1213 College Algebra216001	*Trigonometry MATH 162	*Adv Math-Pre Calc: DE-CMAT 1223 Trigonometry 246001
**Software for Management of Data CMPS 173	**Data Manipulation and Analysis 825078	Introductory Sociology SOC 101	DE Sociology 491004
**Construction Graphics CTEC 111 or IT 100	**Design, Blueprint Reading, and Codes 833002	**Design Drafter DDT 113	**DE Design Drafter 891206
**Engineering Drafting with Computer Assisted Design IT 111	**Engineering Design and Development 822611	**Intro. to Occupational Safety, Health and Environment OSHE 111	**Workplace Safety 837000
Freshman Success SE 101	DE Freshman Success 890201	** Industrial Internship/ Independent Study IT 291/292	**DE Internship Fast Forward 890050

Grade 12			
Semester 1		**Semester 2**	
**Introduction to Public Speaking COMM 211	**DE Speech I 815005	*General Physics PHYS/PLAB 191/193	*Physics I: DE-CPHY 2114 Physics I (Lec & Lab) 376002
**IT 242 Materials and Processes	**TBD	**IT 233 Intro to Basic Electricity and Electronics	**TBD
**IT 264 Industrial Fluid Power	**TBD	**DDT 211 Pipe Drafting	**TBD
**IT 112 Descriptive Geometry	**TBD	**IT 215 3D Rendering Using CAD Software	**TBD
**Technical Elective	**TBD	**Technical Elective	**TBD
**American History HIST 201 or 202	*US History: DE-CHIS 2013 American History I 220407	**Western Civilization HIST 101 or 102	*Western Civ: DE-CHIS 1013 Western Civilization I 220446
General Chemistry I AND Lab Chem/ CLAB 101/103	*Chemistry1: DE-CCEM 1103 Chemistry 1 150414		

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.

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