

TOPS University Associate of Applied Science: Industrial Technology Concentration in Occupational Safety, Health, and Environment

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 Occupational Safety, Health, and Environment (OSH&E) degree program is designed to prepare graduates with the ability and competency to become highly qualified safety, industrial hygiene, and environmental professionals.

Capstone Credentials

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
-Carpenter International Training Fund (CITF) Career Connections: Pre-Apprentice Core Skills -NCCER: Construction or Craft Laborer or Rigger or Scaffolding Helper Modules -OSHA 10 -OSHA 30 -AutoDesk Revit	-ABC Pelican Level 1 -ADDA Certified Architectural Apprentice Drafter -Autodesk Certified User AutoCAD -Carpenter International Training Fund (CITF) Career Connections: Level 1 -Electrical Training ALLIANCE Interim Credential (etA): Levels 1-3 or Level 4 or Level 5 -EPA Section 608 Certification -Geographic Information System - Entry Level Technician Certification -FAA Part 107: Small Unmanned Aircraft Operations -Louisiana Micro-Enterprise -North America’s Building Trades Unions MultiCraft Core Curriculum (MC3) -NCCER Level I: Carpentry or	-ABC Pelican Level 2 -Autodesk Inventor Certified User -Carpenter International Training Fund (CITF) Career Connections: Level 2 OR 3 -NCCER Level 2 or above: Carpentry or Electrical OR Heavy Equipment Operations or HVAC or Insulating or Millwright or Mobile Crane Operator or Pipefitting or Plumbing or Welding -Electrical Training ALLIANCE Interim Credential (etA): Levels 1-5 -EPA Section 608 Certification AND Air Conditioning, Electrical, OR Heat Employment Ready	-Associate of Applied Science: Industrial Technology Concentration in Occupational Safety, Health, and Environment

	Construction Technology or Electrical or Heavy Equipment Operations or HVAC or Insulating or Millwright or Mobile Crane Operator or Pipefitting or Plumbing or Welding		
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*Core Academic Course

**Jump Start CTE Course

Grade 9	
Semester 1	Semester 2
*English I 120331	*Algebra I 211001
**NCCER Carpentry in Agriscience I 990019	*Foreign Language I
*Biology 321001	*Physical Education I 711001
*Civics 220501	*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
**NCCER Carpentry in Agriscience II 990021	*Algebra II 160322

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
*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 Algebra 216001	*Trigonometry MATH 162	*Adv Math-Pre Calc: DE-CMAT 1223 Trigonometry 246001
*General Chemistry I and Lab CHEM/CLAB 101/103	*Chemistry I: DE-CCEM 1103 Chemistry I 336002	Psychology PSYC 101	Psychology: DE CPSY 2013 - Introduction to Psychology 225011
**General Biology 1 GBIO 151/Lab BIOL 152	Biology II: DE-CBIO 1013 General Biology I 150323	**Safety & Health Program Management & Administration OSHE 121	**TBD
**Intro. to Occupational Safety, Health and Environment OSHE 111	**Workplace Safety 311923	** Design of Hazard Controls OSHE 112	**TBD
Freshman Success SE 101	DE Freshman Success 890201		

Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*Elementary Statistics Math 241	*Probability and Statistics: DE-CMAT 1303 Introductory Stat 160356	*General Physics PHYS/PLAB 191/193	*Physics I: DE -CPHY 2114 Physics I (Lec & Lab) 376002
**Introduction to Public Speaking COMM 211	**DE Speech I 815005	**Principles of Industrial Hygiene/Toxicology OSHE 141	**TBD
**Software for Management of Data CMPS 173	**Data Manipulation and Analysis 825078	**Ergonomics OSHE 242	**TBD
**Safety Laws, Regulations, and Standards OSHE 231	**TBD	**Environmental Laws and Regulations OSHE 251	**TBD
*American History HIST 201 or 202	*US History: DE - CHIS 2013 American History I 220407	**Fire Protection and Prevention OSHE 261	**TBD
		*Western Civilization HIST 101 or 102	* Western Civ: DE - CHIS 1013 Western Civilization I 220446



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.