

Jump Start 2.0 Associate of Applied Science: Technical Studies in Industrial Manufacturing Technology
Postsecondary Partner: Central Louisiana Technical Community College

Overview

The Industrial Manufacturing Technology (IMFG) program provides students with a broad range of mechanical, electrical, and electronic skills. Students are provided with a learner-centered curriculum based on integrated academic and technical content, employability skills, along with work-based learning opportunities that enable them to connect what they are learning with real-live work scenarios. The program is closely aligned with the needs of employers, industry, and labor.

Capstone Credentials

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
Career and Technical Certificate: Manufacturing Fundamentals	Certificate of Technical Studies: Industrial Manufacturing Certificate of Technical Studies: Industrial Manufacturing Technology	Technical Diploma: Industrial Manufacturing Technology	Associate of Applied Science: Technical Studies Industrial Manufacturing

**Core Academic Course*
***Jump Start CTE Course*

Grade 9	
Semester 1	Semester 2
*English I 120331	*Physical Education I 190105
*Algebra I 160321	*Civics 220501/220504
**Quest for Success 080411 or Jobs for America's Graduates 1 042010	*Agriscience II 010302 or Environmental Science 150310
**Intro to Bus Comp Apps 040401 or Agriscience I 010301	**Cyber Society (NICERC Partnership) 040218

Grade 10	
Semester 1	Semester 2
*English II 120332	*Biology I 150301
*Algebra II 160322 or Financial Literacy 160345	**Jobs for America's Graduates 3 042030 or Remote Controlled Vehicle Technologies 110796
*½ Physical Education II 190106 ½ Health Education 190500	**Business Computer Applications 040400
**Jobs for America's Graduates 2 042020 or Basic Technical Drafting 110560	**Workplace Safety 311923
*U.S. History 220403	

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
Job Seeking Skills JOB 2450	Advanced Career Readiness 080410	Orientation ORNT 1000	Freshman Seminar 890204
*English Composition I ENGL 1010	*English III: DE-CENL 1013 English Composition I 120601	American History 1 HIST 2010	U.S. History: DE-CHIS American History I 220407
*College Algebra MATH 1100 OR Contemporary Math MATH 1300	*Transition to College Mathematics 165040	Introduction to Manufacturing IMFG 1100	C4M: Level 1 – Introduction to Manufacturing TBD
Intro. To Criminal Justice SOCL 1100	Criminal Justice 020001	Tools and Equipment Used in Manufacturing IMFG 1120	C4M: Level 2 – Manufacturing Team Skills, Quality, and Tools and Equipment TBD
General Biology 1 BIOL 1010	Earth Science 150901	Automation IMFG 1200	C4M: Level 3 – Automation in Manufacturing TBD

Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
Introduction to Fabrication, Process Technology and Machining IMFG 1300	C4M: Level 4 – Introduction to Fabrication TBD	Motor Controls IMFG 1235	G.M. Technician I 313200
Basic AC/DC Electrical IMFG 1215	Basic Electricity/Electronics 110600	Understanding Programmable Controllers IJET 2123	Process Technician I 110911
Basic Mechanical IMFG 1121	Maintenance Assistant 313836	Process Measurements IMFG 2100	Quality Controls 313727
Wiring/Electrical Blueprint Interpretation IJET 1433	Design, Blueprint Reading And Codes 310622	Advanced Programmable Controllers Mechatronics IMFG 1250	Process Technician II 110912

*Contemporary Math MATH 1300 course ask	*Contemporary Math TBD course ask	Introduction to Industrial Network IMFG 1260	Process Instrumentation I 110915
Fluid Power I IMFG 1150	Manufacturing Technology 110250	Advanced Process Control Mechatronics IMFG 2800	Process Technician III 110919
*Collaborative Learning Composition ENGL 96	*Technical Writing 120350	Industrial Control Components and Equipment IMFG 2200	Process Instrumentation II 110916

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.