

Engineering Technology Associate in Applied Science

<http://catalog.ivcc.edu/guidesheet/associate/engineeringtechnology/>

This Career Pathway Plan of Study can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	Career and Technical Courses and/or Degree Major Courses	SAMPLE Occupations Relating to This Pathway
SECONDARY	9	English I	Algebra I Geometry	Physical Science	World History	Consumer Ed, Am. Gov., Speech		<ul style="list-style-type: none"> ➤ Mechanical Engineering Technician ➤ Civil Engineering Technician ➤ Industrial Engineering Technician ➤ Electrical Engineering Technician ➤ Manufacturing Support Operation ➤ Plant Manager ➤ Product Tester ➤ Quality Control Inspector ➤ Drafter
	10	English II	Geometry Algebra II	Biology				
	11	AP English Language English III	Algebra II Pre-Calculus	Chemistry	US History	11th grade; Take IVCC Placement test		
	12	English IV	Pre-Calculus Calculus	Physics			<p>DUAL CREDIT COURSES* (see high school counselor)</p> <p>The following courses may be offered as dual credit at the Area Career Center & some high schools EMS 2200, CSP 1203 Non CTE courses: MTH 1005, CHM 1004, PSY 1000, SOC 1000</p>	
To view detailed descriptions of the below courses, go to: http://catalog.ivcc.edu/courses/								
POSTSECONDARY	Step 1		MTH 1206** Technical Mathematics I			<p>REQUIRED COURSES</p> <p>SDT 1201 Career Exploration SDT 1203 Job Seeking Skills</p>	<p>COMPLETE A CERTIFICATE PROGRAM FROM ONE OF THE FOLLOWING</p> <p>GNT 1220 Intro Manufacturing & OSHA 10-hr safety GNT 1225 Quality & Measurement GNT 1230 Manufacturing Processes GNT 1235 Introduction Manufacturing Maintenance (plus required courses and MTH 1206)</p>	
	Step 2					<p>COMPLETE A CERTIFICATE PROGRAM FROM ONE OF THE FOLLOWING</p> <p>Computer Aided Drafting Certificate: Architectural/Civil CAD Computer Aided Drafting Certificate: Mechanical/Electronic CAD Computer Numerical Control Operators Certificate Heating, Ventilation and Air Conditioning (HVAC) Certificate Industrial Electricians Certificate Industrial Maintenance Certificate Machinist and Tool and Die Making Certificate Renewable Wind Energy Technician Basic Certificate Welding Production Certificate</p>		
	Step 3	ENG 1205** Writ Comm Skills for Bus Ind & Tech				<p>ELECTIVES TO COMPLETE</p> <p>64 CREDIT HOURS</p> <p>FOR THE DEGREE</p> <p>CNC, DFT, HVC, ELE, ELT, MET, WLD, WND or IAI approved course</p>	<p>COMPLETE GENERAL EDUCATION REQUIREMENTS</p> <p>(16 HOURS MINIMUM)</p> <p>3 credit hours ENG 1205 3 credit hours SPH 1204 3 credit hours MTH 1206 1 credit hours SDT 1201 1 credit hours SDT 1203 5 more credit hours from the following: CSP 1210, ALH 1221, HPE 1004, EMS 2200*, CSP 1203*, MTH 1216, ENG 1002, ENG 2000, MTH 1005*, MTH 1008, CHM 1004*, PHY 2003, PSY 1000*, SOC 1000*</p>	
** Go to www.catalog.ivcc.edu/autosubstitutions/ to view allowed substitutions for required courses that may be offered as Dual Credit/Dual Enrollment at area high schools 4/7/16								