



# 2016 – 2017 INDUSTRY, MANUFACTURING, & CONSTRUCTION META-MAJOR



## CERTIFICATE IN PNEUMATICS, HYDRAULICS AND MOTORS FOR MANUFACTURING

Meta-majors are academic pathways to help you meet your educational goals. Included below is a sample schedule for a full-time college student in a Certificate in Pneumatics, Hydraulics and Motors for Manufacturing. While you may not be a full-time student, you are responsible for completing the “Mandatory Hourly Requirements” on the right. Please be advised that not all types of financial aid will cover the cost of summer semester courses.

**COURSE RECOMMENDATIONS ARE BASED ON GENERAL COURSE REQUIREMENTS.**

### SAMPLE FULLTIME SCHEDULE

<b>TERM 1</b>	<b>Courses</b>
Required Course	ET11420C
Required Course	EET1084C
Required Course	ETM2315C
<b>TOTAL SEMESTER HOURS</b>	<b>9 HOURS</b>
<b>COMPLETED HOURS</b>	<b>9 HOURS</b>

<b>TERM 2</b>	<b>Courses</b>
Required Course	ETS1511C
<b>TOTAL SEMESTER HOURS</b>	<b>3 HOURS</b>
<b>COMPLETED HOURS</b>	<b>12 HOURS</b>

### MANDATORY HOURLY REQUIREMENT

<b>By 9 Completed Credit Hours</b>
Receive ACET Certification in DC/AC
2.0 or higher TCC GPA & Cumulative GPA

<b>By 12 Completed Credit Hours</b>
2.0 or higher TCC GPA & Cumulative GPA
25% credit hours earned at TCC

\*Please refer to the [TCC Catalog](#) for specific courses that meet this requirement.

### Important Things to Know:

- Developmental Education courses are not included in this plan.

# MAJORS & OCCUPATIONS IN THE INDUSTRY, MANUFACTURING, & CONSTRUCTION META-MAJOR

MAJOR	OCCUPATION(S)	SUGGESTED ACADEMIC DEGREE(S)/LEVELS
<b>Building Construction Management</b>	Foreman	AS, B
	Assistant Superintendent	AS, B
	Estimator	AS, B
	Building Inspector	AS, B
	Expeditor	AS, B
<b>Drafting and Design Technology</b>	Drafter	AS
	Computer-aided Design (CAD) Technician	AS
	CAD Specialist	AS
	Geographic Information System (GIS) Technician	AS
	Assistant Surveyor	AS
<b>Engineering Technology</b>	Industrial Machinery Mechanic	AS
	General/Operations Manager	AS
	Production/Operations Worker/Supervisor	AS
	Supervisor of Mechanics	AS
	Installer/Repairer	AS
<b>Operations and Construction Management</b>	Operations Analyst/Manager	B, M
	Productions Planner	B, M
	Logistics Specialist	B, M
	Distribution Analyst/Manager	B, M
	Inventory Control Analyst/Manager	B, M
<b>Aeronautics</b>	Aircraft Crew Member	B, M
	Airport Management	B, M
	Air Traffic Controller	B, M
	Accident Investigation/Prevention Worker	B, M
	Aircraft Manufacturing Technician	B, M
<b>Aviation Business Administration</b>	Aviation Team Leader	B, M
	Aviation Dispatcher	B, M
	Aviation Accountant	B, M
	Aviation Training Instructor	B, M
	Aviation Technician	B, M
<b>Aviation Maintenance</b>	Aviation Customer Service Rep.	B, M
	Aviation Development Engineer	B, M
	Hydraulic and Systems Designer	B, M
	Manufacturing Engineer	B, M
	Technical Writer	B, M
<b>Computer Numerical Control (CNC) Machinist</b>	Front-line Supervisor of Production Workers	C
	CNC Operator	C
	Machinist	C
	Lathe Operator	C
	Custom Shop Worker	C
<b>Applied Welding Technologies</b>	Aluminum Welder	C
	Fabricator	C
	Fitter/Welder	C
	Brazer	C
	Solderer	C
<b>Heating, Ventilation, and Air Conditioning (HVAC)</b>	A/C, Refrigeration & Heating Helper	C
	A/C, Refrigeration & Heating Mechanic	C
	A/C, Refrigeration & Heating Mechanic Assistant	C
	A/C, Refrigeration & Heating Technician	C
	Refrigeration Technician	C

- C Certificate
- AS Associate in Science Degree
- B Bachelor's Degree
- M Master's Degree
- D Doctorate

*\*This sheet has sample majors & occupations associated with this meta-major. Some of these options may require additional training and career planning. You are not limited to these options when choosing a possible career path.*