



2016 – 2017 INDUSTRY, MANUFACTURING, & CONSTRUCTION META-MAJOR CERTIFICATE IN CAD FOUNDATIONS



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 CAD Foundations. 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

TERM 1	Courses
Required Course	EGN1111C
Required Course	IDS2182
TOTAL SEMESTER HOURS	6 HOURS
COMPLETED HOURS	6 HOURS

TERM 2	Courses
Required Course	ETD1320
TOTAL SEMESTER HOURS	3 HOURS
COMPLETED HOURS	9 HOURS

TERM 3	Courses
Required Course	ETD2340
TOTAL SEMESTER HOURS	3 HOURS
COMPLETED HOURS	12 HOURS

Please note some courses are only offered in specific semesters:

FALL SEMESTER	SPRING SEMESTER	SUMMER SEMESTER
EGN 1111C	EGN 1111C	EGN 1111C
IDS 2182	IDS 2182	IDS 2182
ETD 1320	ETD 1320	ETD 1320
ETD 2340	ETD 2340	ETD2340
ETD 2390	ETD 2390	

*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.

MANDATORY HOURLY REQUIREMENT

By 6 Completed Credit Hours
2.0 or higher TCC GPA & Cumulative GPA

By 9 Completed Credit Hours
Receive AutoDesk AutoCAD Certification
2.0 or higher TCC GPA & Cumulative GPA

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

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

MAJOR	OCCUPATION(S)	SUGGESTED ACADEMIC DEGREE(S)/LEVELS
Building Construction Management	Foreman	AS, B
	Assistant Superintendent	AS, B
	Estimator	AS, B
	Building Inspector	AS, B
	Expeditor	AS, B
Drafting and Design Technology	Drafter	AS
	Computer-aided Design (CAD) Technician	AS
	CAD Specialist	AS
	Geographic Information System (GIS) Technician	AS
	Assistant Surveyor	AS
Engineering Technology	Industrial Machinery Mechanic	AS
	General/Operations Manager	AS
	Production/Operations Worker/Supervisor	AS
	Supervisor of Mechanics	AS
	Installer/Repairer	AS
Operations and Construction Management	Operations Analyst/Manager	B, M
	Productions Planner	B, M
	Logistics Specialist	B, M
	Distribution Analyst/Manager	B, M
	Inventory Control Analyst/Manager	B, M
Aeronautics	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
Aviation Business Administration	Aviation Team Leader	B, M
	Aviation Dispatcher	B, M
	Aviation Accountant	B, M
	Aviation Training Instructor	B, M
	Aviation Technician	B, M
Aviation Maintenance	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
Computer Numerical Control (CNC) Machinist	Front-line Supervisor of Production Workers	C
	CNC Operator	C
	Machinist	C
	Lathe Operator	C
	Custom Shop Worker	C
Applied Welding Technologies	Aluminum Welder	C
	Fabricator	C
	Fitter/Welder	C
	Brazer	C
	Solderer	C
Heating, Ventilation, and Air Conditioning (HVAC)	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.*