



# 2016 -2017 INDUSTRY, MANUFACTURING, & CONSTRUCTION META-MAJOR ASSOCIATE IN SCIENCE (AS) IN DRAFTING DESIGN TECHNOLOGY DEGREE MAP

Meta-majors are academic pathways to help you meet your educational goals. Included below is a sample schedule for a full-time in college student on an Associate of Science degree track in Drafting and Design Technology. While you may not be a full-time student, you are responsible for completing the “Mandatory Hourly Requirements” on the right. Registration holds will be placed on students who do not meet the “Mandatory Hourly Requirements” and those students will be required to see an advisor. Students are encouraged to take summer classes when available. 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

### MANDATORY HOURLY REQUIREMENT

TERM 1	Courses
Communications State Core Course	ENC1101
Mathematics State Core Course	MAC1105/MGF1106/MGF1107/ STA2023/MAC2311
Program Requirement Course	<b>**EGN111C</b>
Program Requirement Course	ETI1110
Computer Requirement	CGS1060
<b>TOTAL SEMESTER HOURS</b>	<b>15 HOURS</b>
<b>COMPLETED HOURS</b>	<b>15 HOURS</b>

By 15 Completed Credit Hours
ENC1101
MAC1105/MGF1106/MGF1107/ STA2023/MAC2311
Attend First Semester Advising Workshop
Meet with an Advisor
Receive IC3 certification
Declare a Meta-Major
2.0 or higher TCC GPA & Cumulative GPA

TERM 2	Courses
Social Science State Core Course	*
Program Requirement Course	<b>**ETD1320</b>
Program Requirement Course	BCN1001
Program Requirement Course	BCN2230
Program Requirement Course	ETI1701
<b>TOTAL SEMESTER HOURS</b>	<b>15 HOURS</b>
<b>COMPLETED HOURS</b>	<b>30 HOURS</b>

By 30 Completed Credit Hours
Receive AutoDesk AutoCAD User certification
Visit Career Center
2.0 or higher TCC GPA & Cumulative GPA

TERM 3	Courses
Program Requirement Course	<b>**ETD2340</b>
Program Requirement Course	BCT2770
Program Requirement Course	EGN2112
Program Requirement Course	SUR2390
Program Requirement Course	SUR2100
<b>TOTAL SEMESTER HOURS</b>	<b>15 HOURS</b>
<b>COMPLETED HOURS</b>	<b>45 HOURS</b>

By 45 Completed Credit Hours
Attend Graduation Check Workshop
2.0 or higher TCC GPA & Cumulative GPA

TERM 4	Courses
Humanities State Core Course	*
Program Requirement Course	BCN1040
Program Requirement Course	<b>**ETD2390</b>
Program Requirement Course	ETM1010C
Program Requirement Course	<b>EGD1001</b>
<b>TOTAL SEMESTER HOURS</b>	<b>15 HOURS</b>
<b>COMPLETED HOURS</b>	<b>60 HOURS TO GRADUATE</b>

LAST SEMESTER
<b>*** Apply for Graduation!***</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.

**Failure to complete items in BOLD will result in Registration Holds. Students must see an Advisor to have the hold(s) removed.**

**Important Things to Know:**

- *Developmental Education courses are not included in this plan.*
- *MAT1033 is a required pre-requisite for MAC1105 and STA2023; It counts as an elective; not a State or TCC core Mathematics course.*

\*\* Students who take these courses will also earn credit towards additional certificates:



**CAD Foundations Certificate (15 hours)**

- EGS1111C Engineering Graphics
- ETD1320 Introduction to CAD
- ETD2340 Advanced CAD
- ETD2390 3D Auto CAD/Revit
- EGS1001 Introduction to Engineering

## 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.*