

CERTIFICATES AND DEGREES

Technical Certificate A		
Freshman: First Semester		
Course #	Course Name	Credits
ENGT 100	Fundamentals of Drafting	2
ENGT 105	Applications of Engineering Technology	3
ENGT 110	Drafting 2D Views and Dimensioning	3
ENGT 115	Civil Drafting Fundamentals	3
ENGT 120	CAD Fundamentals	2
ENG 101	English Composition I (Required) ⁰¹⁰	3
INF 101	Intro to Computer Information Systems (or Science) ⁰⁷⁰	3
Total Certificate Credits		19

Technical Certificate B		
Freshman: First Semester		
Course #	Course Name	Credits
ENGT 100	Fundamentals of Drafting	2
ENGT 105	Applications of Engineering Technology	3
ENGT 110	Drafting 2D Views and Dimensioning	3
ENGT 115	Civil Drafting Fundamentals	3
ENGT 120	CAD Fundamentals	2
ENG 101	English Composition I (Required) ⁰¹⁰	3
INF 101	Intro to Computer Information Systems (or Science) ⁰⁷⁰	3
Freshman: Second Semester		
Course #	Course Name	Credits
ENGT 150	UAS Flight Systems	1
ENGT 155	Topographic Triangulation	2
ENGT 160	Applications of Spatial Reasoning in Engineering	2
ENGT 165	Mechanical CAD/CAM Drafting	2
ENGT 170	Intermediate CAD Drafting	1
ENGT 175	Civil CAD Fundamentals	2
ENGT 180	Surveying Measurements & Analysis	3
TEC 105	OSHA 10 General Industry	1
TEC 200	Workplace Ethics (Required or Ethics, PSY, SOC) ⁰⁵⁰	3
Total Certificate Credits		36

Technical Certificate C		
Freshman: First Semester		
Course #	Course Name	Credits
ENGT 100	Fundamentals of Drafting	2
ENGT 105	Applications of Engineering Technology	3
ENGT 110	Drafting 2D Views and Dimensioning	3
ENGT 115	Civil Drafting Fundamentals	3
ENGT 120	CAD Fundamentals	2
ENG 101	English Composition I (Required) ⁰¹⁰	3

INF 101	Intro to Computer Information Systems (or Science) ⁰⁷⁰	3
Freshman: Second Semester		
Course #	Course Name	Credits
ENGT 150	UAS Flight Systems	1
ENGT 155	Topographic Triangulation	2
ENGT 160	Applications of Spatial Reasoning in Engineering	2
ENGT 165	Mechanical CAD/CAM Drafting	2
ENGT 170	Intermediate CAD Drafting	1
ENGT 175	Civil CAD Fundamentals	2
ENGT 180	Surveying Measurements & Analysis	3
TEC 105	OSHA 10 General Industry	1
TEC 200	Workplace Ethics (Required or Ethics, PSY, SOC) ⁰⁵⁰	3
Sophomore: First Semester		
Course #	Course Name	Credits
MENT 200	Advanced Mechanical Drafting	2
MENT 205	Manual Machining Operations	3
MENT 210	Applications of Mechanical Design Process	3
MENT 215	Additive Manufacturing Design & Operations	3
Sophomore: Second Semester		
Course #	Course Name	Credits
MENT 250	Advanced Manufacturing Processes	3
MENT 255	Applications of Product Development	7
Total Certificate Credits		57

Associate of Applied Science		
Freshman: First Semester		
Course #	Course Name	Credits
ENGT 100	Fundamentals of Drafting	2
ENGT 105	Applications of Engineering Technology	3
ENGT 110	Drafting 2D Views and Dimensioning	3
ENGT 115	Civil Drafting Fundamentals	3
ENGT 120	CAD Fundamentals	2
ENG 101	English Composition I (Required) ⁰¹⁰	3
INF 101	Intro to Computer Information Systems (or Science) ⁰⁷⁰	3
Freshman: Second Semester		
Course #	Course Name	Credits
ENGT 150	UAS Flight Systems	1
ENGT 155	Topographic Triangulation	2
ENGT 160	Applications of Spatial Reasoning in Engineering	2
ENGT 165	Mechanical CAD/CAM Drafting	2
ENGT 170	Intermediate CAD Drafting	1
ENGT 175	Civil CAD Fundamentals	2
ENGT 180	Surveying Measurements & Analysis	3
TEC 105	OSHA 10 General Industry	1
TEC 200	Workplace Ethics (Required or Ethics, PSY, SOC) ⁰⁵⁰	3
Sophomore: First Semester		
Course #	Course Name	Credits
FIN 205	Principles of Personal Finance (Required) ⁰⁷⁰	3

MATH 110	College Algebra (Required) ⁰³⁰	3
MENT 200	Advanced Mechanical Drafting	2
MENT 205	Manual Machining Operations	3
MENT 210	Applications of Mechanical Design Process	3
MENT 215	Additive Manufacturing Design & Operations	3
Sophomore: Second Semester		
Course #	Course Name	Credits
MENT 250	Advanced Manufacturing Processes	3
MENT 255	Applications of Product Development	7
MENT 290 or	Mechanical Industry Applications or	5
MENT 295	Occupational Work Experience	
Total Degree Credits		68

Systemwide General Education (SGE) Key

010 English

020 Communications

030 Math & Statistics

040 Natural & Physical Sciences

050 Social & Behavioral Science

060 Arts & Humanities

070 Institutionally Designated

* Course descriptions for General Education courses can be found in the General Education section of the College Catalog.