



Engineering Technology Certificates



AutoCAD Certificate

	Credit Hrs.
ENGT 102 Fundamentals of AutoCAD	2
ENGT 172 AutoCAD I - 2D Graphics	3
ENGT 222 AutoCAD II - 3D Graphics	3
ENGT 272 Computer Aided Drafting I	2
MATH 123 Techn. Algebra/Trigonometry	<u>4</u>
Total certificate credit hours:	14

CNC (Computer Numeric Control) Certificate

	Credit Hrs.
ENGT 104 Fundamentals of Machining	2
ENGT 186 Introductory CNC	3
ENGT 236 Intermediate CNC	3
ENGT 286 Advanced CNC with CAM	3
MATH 123 Techn. Algebra/Trigonometry	<u>4</u>
Total certificate credit hours:	15

Engineering Technology Fundamentals Certificate

	Credit Hrs.
ENGT 100 Engineering Technology Systems	2
ENGT 101 Blueprint/Schematic Reading	3
ENGT 102 Fundamentals of AutoCAD	2
ENGT 103 Fundamentals of DC Circuits	2
ENGT 104 Fundamentals of Machining	2
ENGT 105 PC Applications of Technology	3
ENGT 150 Hydraulics/Pneumatics	3
MATH 123 Techn. Algebra/Trigonometry	<u>4</u>
Total certificate credit hours:	21

Electro-Mechanical Certificate

	Credit Hrs.
ENGT 103 Fundamentals/DC Circuits	2
ENGT 163 Fundamentals of AC Power	3
ENGT 168 Logic Systems I	3
ENGT 210 Mechatronics I	3
ENGT 215 Experimental Testing Systems	3
MATH 123 Techn. Algebra/Trigonometry	<u>4</u>
Total certificate credit hours:	18

Manufacturing Processes Certificate

	Credit Hrs.
ENGT 104 Fundamentals of Machining	2
ENGT 180 Basic Manufacturing Processes	3
ENGT 231 Lathe Operations	3
ENGT 232 Milling Operations	3
ENGT 283 Advanced Machining Operations	3
MATH 123 Techn. Algebra/Trigonometry	<u>4</u>
Total certificate credit hours:	18

Pro-E Certificate

	Credit Hrs.
ENGT 102 Fundamentals of AutoCAD	2
ENGT 226 Professional Engineering I	3
ENGT 276 Professional Engineering II	3
ENGT 274 Computer Aided Drafting II	3
MATH 123 Techn. Algebra/Trigonometry	<u>4</u>
Total certificate credit hours:	15

Sustainable Energy Certificate

FIRST YEAR:

Fall Semester

ENGT 102 Fundamentals of AutoCAD	2
ENGT 103 Fundamentals of DC Circuits	2
ENGT 105 PC Applications in Technology	3
MATH 123 Technical Algebra/Trigonometry	4
ENGT 106 Sustainable Energy Systems I	<u>3</u>
Total Semester Hours	14

Spring Semester

ENGT 150 Hydraulics/Pneumatics	3
ENGT 163 Fundamentals of AC Power	3
ENGT 168 Logic Systems I	3
ENGT 172 AutoCAD I – 2D Graphics	3
MATH 223 Technical Calculus	<u>4</u>
Total Semester Hours	16

SECOND YEAR

Fall Semester

ENGT 210 Mechatronics I	3
ENGT 215 Experimental Testing Systems	3
ENGT 218 Logic Systems II	3
ENGT 206 Sustainable Energy Systems II	<u>3</u>
Total Semester Hours	12

Spring Semester

ENGT 170 Engineering Materials	3
ENGT 256 Energy Systems Practicum	2
ENGT 260 Mechatronics II	<u>3</u>
Total Semester Hours	8

TOTAL certificate credit hours: 50