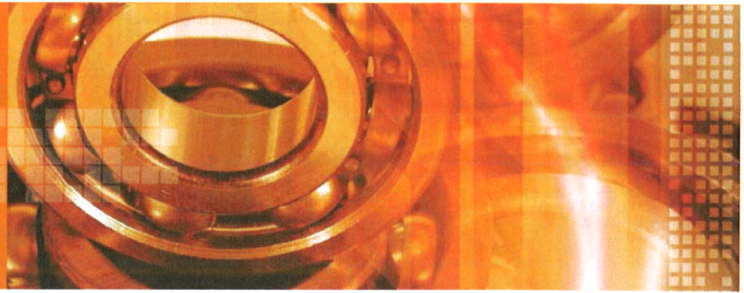


ENGINEERING TECHNOLOGY



C548E - Engineering Technology / CAD Advanced Certificate

The Engineering Technology/CAD Advanced certificate curriculum provides the student with the coursework needed to be in an entry-level position where skills and knowledge of computer aided design (CAD) software is required.

Contains coursework within the Engineering Technology AAS degree, a degree that gives graduates the education needed to fill technical positions in product design and development and transfers to four-year technology-related programs, including (but not limited to) the Illinois Institute of Technology, Illinois State University, Northern Illinois University and Purdue University/Calumet. These four-year programs further prepare the graduates to move into leadership roles, such as industrial supervision, machine and tool designer, technical buyers, production expeditors and cost estimators.

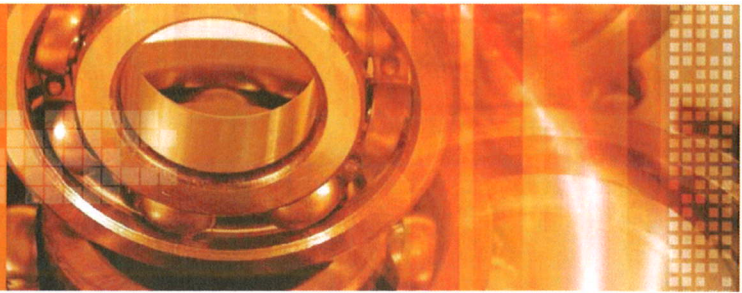
Semester One	Credit Hours
# ENT-110◇ Production Drawing & CAD	4
# ENT-252◇ Introduction to Mechanical AutoCAD	3
# ENT-255◇ Autodesk Inventor Design & Rendering	3
# ENT-280◇ Solidworks Design & Rendering	3
	<hr/>
	13

Coordinator: Antigone Sharris, (708) 456-0300, ext. 3622; Email: asharris@triton.edu; Cell Phone: (773) 580-8807



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ENGINEERING TECHNOLOGY



C348B - Engineering Technology / Design Certificate

The Engineering Technology Design certificate curriculum provides the student with the fundamental courses applicable for an entry-level position working with design professionals within engineering departments, plant maintenance, production departments and technical sales and support. Designed to jump-start an education in engineering technology with first discussions on the concepts of Lean principles in the design process and knowledge in working with the various measurement devices used in determining quality assurance of prototypes and finished goods.

Contains coursework within the Engineering Technology AAS degree, a degree that gives graduates the education needed to fill technical positions in product design and development and transfers to four-year technology-related programs, including (but not limited to) the Illinois Institute of Technology, Illinois State University, Northern Illinois University and Purdue University/Calumet. These four-year programs further prepare you to move into leadership roles, such as industrial supervision, machine and tool designer, technical buyers, production expeditors and cost estimators.

Semester One		Credit Hours
ENT-104	Electricity I	3
ENT-110◇	Production Drawings & CAD	4
ENT-111◇	Metrology with Geometric Dimensioning and Tolerancing	3
# ENT-252◇	Introduction to Mechanical AutoCAD	3
		<hr/>
		13
Semester Two		
ENT-115◇	Fluid Power	3
# ENT-232◇	Descriptive Geometry	3
# ENT-260◇	Jig & Fixture Design	3
# ENT-255◇	<i>Autodesk Inventor Design & Rendering</i> or	
# ENT-280◇	<i>Solidworks Design & Rendering</i>	3
		<hr/>
		12
Total credits required		25

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Semester Three

#	PHY-101◇	General Physics (Mechanics, Heat & Sound) ¹	5
	ENT-111◇	Metrology with Geometric Dimensioning and Tolerancing	3
#	ENT-260◇	Jig & Fixture Design	3
#	RHT-102◇	<i>Freshman Rhetoric & Composition II</i> ² or	
	SPE-101◇	<i>Principles of Effective Speaking</i> ²	3
		Program electives	<u>3</u>
			17

Semester Four

#	ENT-270◇	Machine Design	3
#	ENT-295◇	Applied Statics	3
	HTH-104◇	<i>Science of Personal Health</i> or	
	HTH-281◇	<i>First Aid & CPR</i>	2
	HIS-151◇	<i>History of the U.S. to 1877</i> or	
	PSC-150◇	<i>American National Politics</i> or	
	SSC-190◇	Contemporary Society	3
		General Education/Humanities	3
		Program electives	<u>3</u>
			17
		Total credits required for graduation	66 - 68

Program Electives (9): ENT-100, ENT-116◇, ENT-117◇, ENT-118◇, ENT-144◇, ENT-127◇, ENT-255◇, ENT- 280◇, ENT-290◇, ENT-291, ENT-296◇

¹ PHY-101◇, MAT-111◇ and MAT-114◇ meet the Mathematics and/or Science general education requirement.

²Students must complete RHT-101◇ with SPE-101◇, or RHT-101◇ with RHT-102◇. Students intending to transfer are encouraged to complete all three courses: RHT-101◇, RHT-102◇ and SPE-101◇ to meet university requirements.

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