

MECHANICAL ENGINEERING TECHNOLOGY (METC)

ASSOCIATE IN SCIENCE (A.S.) DEGREE

Knight Campus, Warwick only

Students enrolled in the Mechanical Engineering Technology Program learn to convert engineering theory into working plans in order to solve real world problems. Students use mathematic and scientific concepts as well as computer-related tools to solve design and manufacturing problems that are pervasive in all manufacturing firms. Traditional engineering subjects of physics, math, statics, materials and mechanisms are studied as well as robotics, tool design, quality control, CAD, production planning and cost estimating.

Graduates of this program are qualified to seek employment in product, tool and machine design drafting, as well as working with manufacturing industrial engineers as cost estimators, quality control technologists, and production planners. Students may also choose to continue their education at a four-year college or university to earn a bachelor's degree in engineering technology.

GENERAL EDUCATION REQUIREMENTS

COURSE NO.	COURSE TITLE	CREDITS
<input type="checkbox"/> ENGL 1010*	Composition I*	3
<input type="checkbox"/> ENGL 2100	Technical Writing	3
<input type="checkbox"/> MATH 1700*	Algebra for Technology*	3
<input type="checkbox"/> MATH 1710	Trigonometry for Technology	3
<input type="checkbox"/> PHYS 1050	Physics for Technology I	4
<input type="checkbox"/> Social Science Electives	Select two from: GEOG 1010, HIST 1010, 1020, PSYC 1050, SOCS 1010	6
Total General Education Credits		22

*Placement test required

TIP:

Full-time students should take a minimum of 20 credits during their first semester, 20 credits their second semester, 16-17 credits their third semester, and 16-17 credits their fourth semester.

MAJOR REQUIREMENTS

COURSE NO.	COURSE TITLE	CREDITS
<input type="checkbox"/> ENGT 1060	AutoCAD (Basic) 7 wks	2
<input type="checkbox"/> ENGT 1070	P AutoCAD (Advanced) 8 wks	2
<input type="checkbox"/> ENGR 1030	Engineering Graphics	3
<input type="checkbox"/> MNFG 1010	Introduction to Robotics	3
<input type="checkbox"/> ENGR 1020	Introduction to Engineering and Technology	3
<input type="checkbox"/> ENGT 1020	Manufacturing Processes	2
<input type="checkbox"/> MEET 1510	P Statics and Strength of Materials	5
<input type="checkbox"/> MEET 1810	P Design Drafting	3
<input type="checkbox"/> ENGT 1100	P Engineering Applications of Computers	3
<input type="checkbox"/> MAPR 2330	Cost Estimating	3
<input type="checkbox"/> ENGT 2310	Statistics and Quality Control	3
<input type="checkbox"/> MEET 2920	P Basic Mechanisms	4
<input type="checkbox"/> MEET 2820	P Basic Tool Design	3
<input type="checkbox"/> ENGT 2930	Industrial Materials	3
<input type="checkbox"/> MEET 2830	P Elements of Machine Design	3
<input type="checkbox"/> INST 2320	P Introduction to Programmable Logic Controllers	3
<input type="checkbox"/> MEET 2150	Principles of Production Management	3
Total Major Requirements Credits		51

Total Program Credits

73

P This course has a prerequisite. See Course Descriptions section for class hours, prerequisites and corequisites.