

MECHANICAL ENGINEERING TECHNOLOGY (METC)

ASSOCIATE IN SCIENCE (A.S.) DEGREE
KNIGHT CAMPUS, WARWICK

Students enrolled in the Mechanical Engineering Technology program learn to convert engineering theory into working plans in order to solve real world problems. Student 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
☐ MATH 1700*	Algebra for Technology*	3
☐ PHYS 1050	Physics for Technology I	4
☐ ENGL 1010*	Composition I *	3
☐ MATH 1710*	Trigonometry for Technology*	3
☐ COMI 1210	Programming in Basic (5 wks)	1
☐ Liberal Arts Elective	Select 3 credits from Literature, Oral Communications, Theater, Social Science	3
☐ ENGL 2100	Technical Writing	3
☐ BUSN 2150	Principles of Production Management	3
Total General Education Credits		23

*Placement test required

Tip:

Full-time students should take a minimum of 20 credits 1st semester, 20 credits 2nd semester, 16 credits 3rd semester, and 16 credits 4th semester

MAJOR REQUIREMENTS

COURSE NO.	COURSE TITLE	CREDITS
☐ ENGT 1060	AutoCAD (Basic) 7 wks	1
☐ ENGT 1070	P AutoCAD (Advanced) 8 wks	2
☐ ENGR 1030	Engineering Graphics	3
☐ MNFG 1010	Introduction to Robotics	3
☐ ENGR 1020	Intro. to Engineering & Technology	3
☐ ENGT 1020	Manufacturing Processes	2
☐ MEET 1510	P Statics & Strength of Materials	5
☐ MEET 1810	P Design Drafting	3
☐ ENGT 1100	P Engineering Applications of Computers (10 wks)	2
☐ MAPR 2330	Cost Estimating	3
☐ ENGT 2310	Statistics & Quality Control	3
☐ MEET 2920	P Basic Mechanisms	4
☐ MEET 2820	P Basic Tool Design	3
☐ ENGT 2930	Industrial Materials	3
☐ MEET 2830	P Elements of Machine Design	3
☐ INST 2320	P Introduction to Programmable Logic Controllers	4
Total Major Requirements Credits		47

Total Program Credits

70