

Manufacturing Design and Rapid Prototyping Concentration (ETMD)

Certificate in Engineering Systems Technology (CERT_ETMA)

Knight Campus, Warwick only

Students in this certificate program develop the knowledge and skills to prepare files and drawings for a variety of mechanical devices and components. Students learn contemporary CAD software to produce files suitable for machining and 3-D printing. Emphasis will be placed on designing for advanced manufacturing technology, rapid prototyping using 3-D printers and mechanical simulation. All credits can be applied to the Associate in Science Degree in Advanced Manufacturing Technology.

Certificate Requirements

COURSE NO.	COURSE TITLE	COURSE NOTES	CREDITS
ENGR 1030	Engineering Graphics		3
ETCN 1100	Blueprint Reading and the Machinery's Handbook	Seven-and-a-half week course	3
ETME 1020	Introduction to Manufacturing Processes		3
ENGT 1060	AutoCAD (Basic)		2
ENGT 2090	Advanced Solid Modeling		3
ETCN 1000	Mechanical Industrial Design		3
ETCN 2300	3D-Modeling and Prototyping		3
Total Certificate Requirements Credits			20
Total Program Credits			20