

MXET Approved Technical Electives Mechatronics

In general, technical electives for MXET students with a focus in Mechatronics are to be 3XX or 4XX level technical courses that augment or expand some aspect of technical content included in the Mechatronics curriculum. The intent is to have students choose these two courses so that they can pursue an area of interest to them.

MXET students should meet with the Program Coordinator to review educational degree plan and have technical electives approved before enrolling in the course(s).

A number of courses have been reviewed and approved as suitable for the Mechatronics option. These include, but are not limited to:

ENGR 489 – Intellectual Property

ESET 315 – Networking

ESET 329 – Six Sigma & Applied Statistics

ESET 333 – Product Development*

ESET 444 – Building Energy Management Systems

ESET 456 – Embedded Sensors and Internet of Things (IoT) Systems

ESET 469 – Embedded Real Time Software Development

MMET 380 – Computer-Aided Manufacturing

MMET 410 - Manufacturing Automation and Robotics **

MMET 463 – Mechanical Design Applications II**

Other 3XX-4XX level technical courses may be used with approval by the Program Coordinator. Students must meet prerequisites of technical electives if the prerequisite is part of the MXET degree plan.

*For Mechatronics students, taking ESET 333 will complete all required coursework for a minor in Embedded Systems Integration. You may apply for the minor on the ETID website.

**These courses are highly recommended by the program as their content is relevant to careers in mechatronics.