MXET - MULTIDISCIPLINARY ENGINEERING TECHNOLOGY

MXET 635 Advanced Applied Dynamics for Mechatronic Systems
Credits 3. 3 Lecture Hours.
Translational mechanical system dynamics, rotational mechanical system dynamics, electrical system dynamics modeling, mechatronics system dynamics, fluid power dynamics, rigid body dynamics and applied dynamics modeling using finite element method; automotive, oil and gas drilling and robotic applications.
Prerequisites: Graduate classification or approval of instructor.

MXET 681 Seminar
Credit 1. 1 Other Hour.
Selected topics presented by the faculty, students and outside speakers.
Prerequisites: Graduate classification or approval of instructor.

MXET 684 Professional Internship
Credits 1 to 6. 0 Lecture Hours. 1 to 6 Other Hours.
Directed internship in an organization to provide students with on-the-job training with professionals in settings appropriate to the students’ professional objectives. Must be taken on a satisfactory/unsatisfactory basis.
Prerequisite: Graduate classification in Master of Science in Engineering Technology.

MXET 685 Directed Studies
Credits 1 to 12. 1 to 12 Other Hours.
Directed study of topics not within scope of thesis research and not covered by other formal courses. May be repeated for credit.
Prerequisites: Graduate classification or approval of instructor.

MXET 689 Special Topics in...
Credits 1 to 4. 1 to 4 Other Hours.
Selected topics in an identified area of engineering technology. May be repeated for credit.
Prerequisites: Graduate classification or approval of instructor.

MXET 691 Research
Credits 1 to 23. 1 to 23 Other Hours.
Research for thesis or dissertation. May be repeated for credit.
Prerequisites: Graduate classification or approval of instructor.

MXET 692 Professional Study
Credits 1 to 23. 1 to 23 Other Hours.
Approved professional study of project.
Prerequisites: Approval of Instructor.