

MET - MECHANICAL ENGINEERING TECH (MET)

MET 213 Dynamics 3 SHC

This course includes the motion of rigid bodies and the forces that produce or change their motion. Rectilinear and curvilinear motion of bodies is covered as well as the concepts of work, power, energy, impulse, momentum and impact in relation to machine and mechanisms.

Prerequisites: MAT 110, MAT 111, PHY 201, and PHY 202, or PHY 221 and PHY 222.

Lecture Hours: 2

Lab/Clinical Hours: 3

MET 214 Fluid Mechanics 3 SHC

This course is a study of the physical properties of fluids and includes hydrostatics, buoyancy, flow of incompressible fluids, orifices, venturis and nozzles.

Prerequisites: MAT 110 and MAT 111.

Lecture Hours: 2

Lab/Clinical Hours: 3

MET 222 Thermodynamics 4 SHC

This course includes the study of the thermodynamic principles of heat, work, non-flow and steady flow processes and cycles. The use of thermodynamic tables and charts are stressed.

Prerequisites: EGR 194, MAT 110, MAT 111, PHY 201, and PHY 202, or PHY 221 and PHY 222.

Lecture Hours: 3

Lab/Clinical Hours: 3

MET 231 Machine Design 4 SHC

This course covers the design and applications of machine elements such as shafts, couplings, springs, brakes, clutches, gears and bearings. It also covers the applications of principles of DC/AC, statics, strength of materials, engineering drawing and dynamics to the design of simple machines.

Prerequisites: EGR 194 and EGT 152.

Lecture Hours: 3

Lab/Clinical Hours: 3

MET 235 Manufacturing Engineering Principles 2 SHC

This course covers an analysis of the management of manufacturing using the tools of work cell design, standards, process planning, inventory control, and quality control. It includes analytical decision making and planning techniques.

Lecture Hours: 2

Lab/Clinical Hours: 0

MET 240 Mechanical Senior Project 1 SHC

This course includes investigations and/or advanced study in an area of specialization approved by the instructor.

Prerequisites: Advisor approval.

Lecture Hours: 0

Lab/Clinical Hours: 3