EGT - ENGINEERING DESIGN TECH (EDT)

EGT 110 Engineering Graphics I 4 SHC
This is an introductory course in engineering graphics science which includes beginning drawing techniques and development of skills to produce basic technical drawings.
Concurrent Prerequisite: RWR 100 and MAT 110 or appropriate placement test scores.
Lecture Hours: 2
Lab/Clinical Hours: 6

EGT 115 Engineering Graphics II 4 SHC
This course in engineering graphics science includes additional drawing techniques for industrial applications.
Prerequisites: EGT 110 and EGT 151.
Lecture Hours: 2
Lab/Clinical Hours: 6

EGT 151 Introduction to CAD 3 SHC
This course covers the operation of a computer aided drafting system. The course includes interaction with a CAD station to produce technical drawings.
Concurrent Prerequisite: RWR 100 and MAT 110, or appropriate placement scores.
Lecture Hours: 2
Lab/Clinical Hours: 3

EGT 152 Fundamentals of CAD 3 SHC
This course includes a related series of problems and exercises utilizing the computer graphics station as a drafting tool. Students study the design concepts of form and function, then use state-of-the-art technology to translate conceptual designs into reproducible products.
Prerequisites: EGR 103.
Lecture Hours: 1
Lab/Clinical Hours: 6

EGT 165 Introduction to CAD/CAM 2 SHC
This course covers the basic principles of CNC machine operation , fixturing required to clamp parts in the machine, and basic competencies in CNC programming.
Prerequisites: EGT 151 and EGT 251.
Lecture Hours: 1
Lab/Clinical Hours: 3

EGT 215 Mechanical Drawing Application 4 SHC
This advanced drawing course covers industrial applications. It will consist of a design project including project development that may be accomplished in collaboration with an area manufacturing company.
Prerequisites: EGT 115 and EGT 151 and advisor approval.
Lecture Hours: 2
Lab/Clinical Hours: 6

EGT 225 Architectural Drawing Applications 4 SHC
This is an advanced drawing course for architectural applications. The student will be responsible for the complete project development, necessary calculations and graphic design drawings.
Prerequisites: EGT 151.
Lecture Hours: 2
Lab/Clinical Hours: 6

EGT 251 Principles of CAD 3 SHC
This course includes the additional use of CAD software for production of technical drawings and related documentation.
Prerequisites: EGT 151.
Lecture Hours: 2
Lab/Clinical Hours: 3

EGT 252 Advanced CAD 3 SHC
This course covers advanced concepts of CAD software and applications. This course will include advanced CAD principles such as 3D CAD techniques, including solid modeling, wire frame assemblies and working drawings.
Prerequisites: EGT 110
Lecture Hours: 2
Lab/Clinical Hours: 3

EGT 255 Applications of Advanced CAD 2 SHC
This course includes the skills of solid modeling instruction in an appropriate programming language.
Prerequisites: EGT 251 and EGT 252
Lecture Hours: 1
Lab/Clinical Hours: 3