Courses

CADD 1101 Drafting Technology Theory I: 2 semester hours.
Basic drafting fundamentals and theory. Includes lettering, linework, spatial visualization, multiview drawings, sections, auxiliaries, dimensioning, and notation. PREREQ: Minimum score of 30 on ALEKS or equivalent. COREQ: CADD 1108 and CADD 1109. F

CADD 1108 Introduction to CAD: 4 semester hours.
Basic CAD skills taught in the 2-D AutoCAD environment to include computer skills, drawing environment, annotation, shape creation and manipulation, and plotting. PREREQ: Minimum score of 30 on ALEKS or equivalent. COREQ: CADD 1101. F

CADD 1109 Drafting Applied Algebra: 2 semester hours.
Algebraic solutions, word problems, equations and graphing concepts, ratio and proportion, and metric system relating to design drafting applications. PREREQ: Minimum score of 30 on ALEKS or equivalent. F

CADD 1111 Drafting Technology Theory II: 2 semester hours.
Fundamentals of drafting technology II: 2D Computer-aided drafting. PREREQ: Minimum score of 30 on ALEKS or equivalent. COREQ: CADD 1101 and CADD 1108. F

CADD 1119 Drafting Applied Descriptive Geometry: 2 semester hours.
Descriptive geometry applications related to design drafting explored. PREREQ: Minimum score of 30 on ALEKS or equivalent. CADD 1109 or CADD 2209. F

CADD 1121 Mechanical Drafting Technology Theory I: 2 semester hours.
Introduction to mechanical drafting fundamentals and theory to include size tolerancing, isometric projection, welding symbology, gearings, threads and fasteners, manufacturing processes, and axonometric projection. PREREQ: Minimum score of 30 on ALEKS or equivalent. COREQ: CADD 1101 and CADD 1108. F

CADD 1122 Mechanical Drafting Technology Lab I: 3 semester hours.
Application of Mechanical Drafting Technology Theory I including welding symbology, geometric dimensioning and tolerancing, working drawings, assemblies, piping concepts, advanced dimensioning and tolerancing principles. Introduction to fundamentals of flat pattern layouts and 3D modeling. PREREQ: CADD 1111. COREQ: CADD 1122. PREREQ or COREQ: CADD 1129. S

CADD 1129 Drafting Applied Analytic Geometry: 2 semester hours.
Analytic geometry applications including intersections and revolutions. Solutions of problems relating to design drafting are emphasized. PREREQ: CADD 1119. S

CADD 1137 Mechanical Drafting Technology Theory II: 2 semester hours.
Instruction in drafting theory including advanced instruction in parametric 3D modeling using CAD systems. PREREQ: CADD 1121. COREQ: CADD 1138. PREREQ or COREQ: CADD 1139. S

CADD 1138 Mechanical Drafting Technology Laboratory II: 3 semester hours.
Application of Mechanical Drafting Technology Theory II including application of Parametric Modeling Theory to create parametric 3D models using CAD systems. PREREQ: CADD 1122. COREQ: CADD 1137. S

CADD 1139 Drafting Applied Trigonometry: 2 semester hours.
Applications and solutions in trigonometry and vectors relating to design drafting. PREREQ: CADD 1129. S

CADD 2207 Architectural Design Theory I: 2 semester hours.
Fundamentals of residential architectural design, floor plans, elevations, room layout, aesthetic design, site plans, Universal Design, the National CAD Standard, and electrical symbology. PREREQ: Minimum score of 30 on ALEKS or equivalent. COREQ: CADD 2208 and CADD 2209. F

CADD 2208 Architectural Design Laboratory I: 3 semester hours.
Application Architectural Design Theory I including documentation and modeling of residences using CAD systems. PREREQ: Minimum score of 30 on ALEKS or equivalent. COREQ: CADD 2207. F

CADD 2209 Estimation Concepts: 2 semester hours.
Introduction to statistics and probability and cost estimation concepts. Solutions of problems relating to design drafting are emphasized. PREREQ: Minimum score of 30 on ALEKS or equivalent. F

CADD 2217 Architectural Design Theory II: 2 semester hours.
Commercial architectural concepts and design theory. Commercial building design relating to design drafting emphasized. PREREQ: Minimum score of 30 on ALEKS or equivalent. COREQ: CADD 2207 and CADD 2218. F

CADD 2218 Architectural Design Laboratory II: 3 semester hours.
Application of Architectural Design Theory II including documentation and 3D modeling of commercial buildings using current Building Information Modeling (BIM) software. PREREQ: Minimum score of 30 on ALEKS or equivalent. COREQ: CADD 2208 and CADD 2217. F

CADD 2227 Structural Steel Drafting Theory: 2 semester hours.
Concepts of structural steel drafting and detailing including erection drawings and detailing of steel members. PREREQ: CADD 2217. COREQ: CADD 2228. S

CADD 2228 Structural Steel Drafting Laboratory: 3 semester hours.
Application of Structural Steel Drafting Theory including preparing structural steel detailing drawings using CAD systems, and structural steel drafting and detailing using a 3D modeling system. PREREQ: CADD 2218. COREQ: CADD 2227. S

CADD 2247 Design Integration Theory: 2 semester hours.
Concepts including Mechanical, Electrical, and Plumbing (MEP) building systems and graphic presentation methods explored. PREREQ: CADD 2227. COREQ: CADD 2248. S

CADD 2248 Design Integration Laboratory: 3 semester hours.
Applications of MEP building systems and graphic presentation methods including rendering and animation using CAD systems. PREREQ: CADD 2228. COREQ: CADD 2247. S

CADD 2295 CADD Internship: 1-16 semester hours.
Industrial work experience via a cooperative program for selected students. PREREQ: CADD major or permission of coordinator. F, S, Su

CADD 2296 Independent Study: 1-8 semester hours.
Addresses specific learning needs of individuals for the enhancement of knowledge and skills within the program area under the guidance of an instructor. May be repeated. Graded S/U, or may be letter-graded. PREREQ: Permission of the instructor. D

CADD 2298 Special Topics: 1-8 semester hours.
Addresses specific needs of industry, enabling student to upgrade technical skills that are not included in the current program curriculum. May be repeated. Graded S/U, or may be letter-graded. PREREQ: Permission of the instructor. D