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.
Drafting theory and fundamentals and theory to include size tolerancing, isometric projection, welding symbols, 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 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.
Concepts of structural steel drafting and detailing including erection drawings and detailing of steel members. **PREREQ**: CADD 1121. **COREQ**: CADD 2227 and CADD 2228. **S**

**CADD 1122 Mechanical Drafting Technology Lab I**: 3 semester hours.
Applications of advanced dimensioning and tolerancing principles, flat pattern layouts, revolutions, and piping. **PREREQ**: CADD 1108. **COREQ**: CADD 1121. **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.
Applications of Mechanical Drafting Technology Theory II including 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 of Architectural Design Theory I including documentation and 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 2209. **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 2227 and CADD 2228. **S**

**CADD 2228 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 2228. **F**

**CADD 2229 Special Topics**: 1-8 semester hours.
Addresses specific 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**