

Architecture, Construction and Manufacturing

Course: **ADVANCED ARCHITECTURAL DESIGN -CAMPUS:ALL**

Course Description: Students gain advanced knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design and landscape architecture. The course includes the advanced knowledge of the design, design history, techniques and tools related to the production of drawings, renderings and scaled models for commercial or residential architectural purposes. Student must pass safety test with 100% mastery.

NEISD #**8246** Credit: 2.0 Term: Full Year Grade Placement: 11-12

Prerequisites: Architectural Design

Special Notes:

Course: **ADVANCED CONSTRUCTION MANAGEMENT-CAMPUS:CH,MD,RE**

Course Description: Students gain knowledge and skills specific to those needed to enter the workforce as carpenters or building maintenance supervisors or build a foundation toward a postsecondary degree in architecture, construction science, drafting or engineering. This course includes the knowledge of the design, techniques and tools related to the management of architectural and engineering projects. Student must pass safety test with 100% mastery.

NEISD #**8240** Credit: 2.0 Term: Full Year Grade Placement: 11-12

Prerequisites: Construction Management

Special Notes:

Course: **ADVANCED CONSTRUCTION TECHNOLOGIES-CAMPUS:LE,MC**

Course Description: Students gain knowledge and skills specific to those needed to enter the workforce as carpenters or building maintenance supervisors or build a foundation toward a postsecondary degree in architecture, construction science, drafting or engineering. This course includes the knowledge of the design, techniques and tools related to the management of architectural and engineering projects. Student must pass safety test with 100% mastery.

NEISD #**8244** Credit: 2.0 Term: Full Year Grade Placement: 11-12

Prerequisites: Construction Management

Special Notes:

Course: **ADVANCED INTERIOR DESIGN-CAMPUS:ALL**

Course Description: This is a technical laboratory course that includes the knowledge of the employability characteristics, principles, processes, technologies, communication, tools, equipment and materials related to interior spatial design. Student must pass safety test with 100% mastery.

NEISD #**8045** Credit: 1.0 Term: Full Year Grade Placement: 11-12

Prerequisites: Interior Design

Special Notes:

Course: **ADVANCED WELDING-MD**

Course Description: This course builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Student must pass safety test with 100% mastery.

NEISD #**8175** Credit: 2.0 Term: Full Year Grade Placement: 11-12

Prerequisites: Welding

Special Notes:

Course:ARCHITECTURAL DESIGN-CAMPUS:ALL

Course Description:Students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design and landscape architecture. This course includes the knowledge of the design, design history, techniques and tools related to the production of drawings, renderings and scaled models for commercial or residential architectural purposes. Student must pass safety test with 100% mastery.

NEISD #8245 Credit: 1.0 Term: Full Year Grade Placement: 10-12

Prerequisites:

Special Notes:

Course:CONSTRUCTION MANAGEMENT-CAMPUS:ALL

Course Description:Students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or build a foundation toward a postsecondary degree in architecture, construction science, drafting or engineering. This course includes the knowledge of the design techniques and tools related to the management of architectural and engineering projects. Student must pass safety test with 100% mastery.

NEISD #8239 Credit: 1.0 Term: Full Year Grade Placement: 10-12

Prerequisites:

Special Notes:

Course:CONSTRUCTION TECHNOLOGY-CAMPUS:CH,MD,RE

Course Description:Students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or prepare for a postsecondary degree in construction management, architecture or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes and framing. Student must pass safety test with 100% mastery.

NEISD #8243 Credit: 1.0 Term: Full Year Grade Placement: 10-12

Prerequisites:

Special Notes:

Course:INTERIOR DESIGN-CAMPUS:ALL

Course Description:This is a technical course that addresses psychological, physiological and sociological needs of individuals by enhancing the environments in which they live and work. Individuals use knowledge and skills related to interior and exterior environments, construction and furnishings to make wise consumer decisions, increase productivity and compete in industry. Student must pass safety test with 100% mastery

NEISD #8044 Credit: 1.0 Term: Full Year Grade Placement: 10-12

NEISD #8047 Credit: 0.5 Term: Semester Grade Placement: 9-12

Prerequisites:

Special Notes:

Course:MANUFACTURING ENGINEERING-CAMPUS:RO

Course Description:Students gain knowledge and skills in the application, design, production and assessment of products, services and systems and how those knowledge and skills are applied to manufacturing. These knowledge and skills prepare students for success in the global economy. This course allows students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in a manufacturing setting. Student must pass safety test with 100% mastery.

NEISD #8257 Credit: 2.0 Term: Full Year Grade Placement: 11-12

Prerequisites:

Special Notes:

Course:**MILL AND CABINETMAKING TECHNOLOGY-CAMPUS:MC,RE**

Students gain knowledge and skills specific to those needed to enter the work force in the area of mill work and cabinet manufacturing and installation. Students acquire knowledge and skills in cabinet design, tool usage, jointing methods, finishes and numerical and computer

Course Description: control production methods. Student must pass safety test with 100% mastery.

NEISD #**8236** Credit: 2.0 Term: Full Year Grade Placement: 10-12

Prerequisites:

Special Notes:

Course:**PIPING AND PLUMBING TECHNOLOGY-CAMPUS-MC**

Course Description: Students gain knowledge and skills needed to enter industry as a plumber, pipe fitter or building maintenance technician or supervisor or prepare for a postsecondary degree in construction management, architecture or engineering. Students acquire knowledge and skills in tool usage, safety, pipefitting, drainage, building codes and water supply. Student must pass safety test with 100% mastery.

NEISD #**8241** Credit: 2.0 Term: Full Year Grade Placement: 10-12

Prerequisites:

Special Notes:

Course:**PRACTICUM IN ARCHITECTURAL DESIGN-CAMPUS:MC**

Course Description: Practicum in Construction Management is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom. Student must pass safety test with 100% mastery.

NEISD #**8247** Credit: 2.0 Term: Full Year Grade Placement: 12

Prerequisites: Completion of a coherent sequence in a program area related to the field of Construction Management.

Special Notes:

Course:**PRACTICUM IN INTERIOR DESIGN-CAMPUS:LE,CH,RO,MD,RE,JO**

Course Description: This is an occupationally-specific course designed to provide classroom technical instruction. Job-specific skilled training is provided through the use of laboratory training or training plans by local training sponsors in areas compatible with identified career goals in interior design. In addition, students are expected to develop knowledge and skills in housing, furnishings and equipment construction/management and services. The practicum course is a paid or unpaid capstone experience or independent study course for students participating in a coherent sequence of career and technical education courses in the field of interior design. Instruction may be delivered through laboratory training or through career preparation delivery arrangements. Student must pass safety test with 100% mastery.

NEISD #**8046** Credit: 2.0 Term: Full Year Grade Placement: 12

Prerequisites:

Special Notes: *Student must provide their own transportation.*

Course:**PRINCIPLES OF ARCHITECTURE AND CONSTRUCTION-CAMPUS:LE,MC,MD,RE**

Course Description: This course provides an overview of the various fields of architecture, interior design, construction science and construction technology. Student must pass safety test with 100% mastery.

NEISD #**6647** Credit: 1.0 Term: Full Year Grade Placement: 9-12

NEISD #**6648** Credit: .05 Term: Semester Grade Placement: 9-12

Prerequisites:

Special Notes:

Course:**PRINCIPLES OF MANUFACTURING-CAMPUS:LE,MC,CH,MD,RE**

Course Description: Students gain knowledge and skills in manufacturing technology in the modern world. Students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers. The study of manufacturing technology allows students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in a manufacturing setting. Student must pass safety test with 100% mastery.

NEISD #**6629** Credit: 1.0 Term: Full Year Grade Placement: 9-12

Prerequisites:

Special Notes:

Course:**PROBLEMS AND SOLUTIONS II - ARCHITECTURE-CAMPUS:ALL**

Students develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, are matched with a mentor from the business or professional community, compile findings and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn,

Course Description:reinforce, apply and transfer their knowledge, skills and technologies in a variety of settings.

NEISD #**8315**

Credit: 1.0

Term: Full Year

Grade Placement: 11-12

Prerequisites:

Special Notes:

Course:**WELDING-CAMPUS:MD**

Course Description:Welding provides the knowledge, skills and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, expectations and the development of workplace skills prepare students for future success. Student must pass safety test with 100% mastery.

NEISD #**8169**

Credit: 1.0

Term: Full Year

Grade Placement: 10-12

NEISD #**8174**

Credit: 2.0

Term: Full Year

Grade Placement: 10-12

Prerequisites:

Special Notes: