§130.66. Practicum in Architectural Design (Two Credits), Adopted 2015.

DOMAIN 1 – PROFESSIONAL PRACTICE

(1B) demonstrate an understanding of group participation and leadership related to citizenship and career preparation

(1C) demonstrate productive work habits and attitudes

(11B) exhibit ethical practices as defined by the architectural industry

DOMAIN 2 – OFFICE PRACTICE

(1D) apply the competencies related to resources, information, interpersonal skills, systems, and technology in appropriate settings and situations

(1E) demonstrate knowledge of the concepts and skills related to health and safety in the workplace, as specified by appropriate governmental regulations

(2A) demonstrate effective verbal and written communication skills with individuals from varied cultures, including fellow workers, managers, and customers

(3B) use the tools and equipment commonly employed in the student's chosen field in a safe manner

(3C) handle and dispose of environmentally hazardous materials used in the student's chosen field in a proper manner

(6A) use a variety of tools, equipment, and machines

(9A) apply written, verbal, and visual communication techniques consistent with industry standards

DOMAIN 3 – CAREER RESEARCH

(1A) identify employment opportunities, including entrepreneurship and preparation requirements, for the student's chosen field

(10A) determine preparation requirements for various levels of employment in a variety of careers

(10B) analyze the future employment outlook

(10C) describe entrepreneurial opportunities in architecture and related fields

(10D) determine how interests, abilities, personal priorities, and family responsibilities affect career choice

(10E) compare rewards and demands for various levels of employment in a variety of careers

(10F) determine continuing education opportunities that enhance career advancement and promote lifelong learning

(11A) summarize the rights and responsibilities of employers and employees

(11G) develop and update a professional resume that includes appropriate education history, work history, professional references, letters of recommendation, and all relevant information for any licenses, certifications, and credentials

DOMAIN 4 – PROJECT ORGANIZATION

(4A) apply multimedia communication and rendering technology to individual or community problems

(5A) develop or improve communication products that meet specified needs

(5B) maintain a project portfolio that documents architectural projects using a variety of multimedia techniques

(6B) produce an architectural project using multimedia communication techniques

(7C) comply with the appropriate codes, laws, standards, or regulations

(8A) develop or improve a product by following a problem-solving strategy

(8B) apply critical-thinking strategies to the analysis and evaluation of proposed technological solutions

(8C) apply decision-making techniques

(11D) develop a school-based learning activity in collaboration with the teacher and at least one related mentor that provides an in-depth study of at least one aspect of a selected business, industry, and labor independent study

(11E) present the project in at least two formats such as model, graphic, verbal, or written to a panel of students, teachers, and practitioners in the career concentration

(11F) maintain a project portfolio that documents experience by using graphic or written documentation of architectural-related projects

DOMAIN 5 – INDUSTRY MATERIALS & METHODS

(2D) read and interpret appropriate schematics, charts, graphs, drawings, construction documents, directions, manuals, bulletins, and regulations

(3A) identify and select basic materials and processes used in the student's chosen field

(3D) demonstrate knowledge of new and emerging technologies in the student's chosen field

(4B) describe the factors that affect the use and interpretation of communication products

(4C) identify and describe the roles of communication such as informing, persuading, and educating

(7A) identify areas where codes, laws, standards, or regulations may be required

(7B) locate the appropriate codes, laws, standards, or regulations

(11C) analyze legal aspects of the architectural-related workplace

DOMAIN 6 – MATHEMATICS & PHYSICS PRINCIPLES

(2B) apply mathematics principles and practices

(2C) apply and identify scientific principles used in projects

(9B) use mathematics concepts in communication technology

(9C) identify and apply scientific principles