

CERRITOS COLLEGE

ARCHITECTURE PROGRAM TECHNICAL STANDARDS/ESSENTIAL FUNCTIONS

The following listing has been prepared to assist you in understanding the technical standards of the Architecture program in order to affiliate in the industry and ultimately practice the profession. The technical standards as stated herewith are not conditions of admission to a program of study. Rather, they reflect performance abilities that are necessary for a student to successfully complete the requirements of the specified Technology program.

The purpose of this document is to notify prospective Architecture students of these technical standards to enable them to make an informed decision regarding enrollment in the Architecture program at Cerritos College.

The delivery of safe, effective practice requires that students be able to perform functions related to the technical standards outlined here. The inability of a student to perform these functions may result in the student being unable to meet course objectives and to progress in the Architecture program. Additionally, if a student is unable to perform these required competencies, the student may pose a risk of harm to the customer(s) for whom service is provided.

All applicants meeting the appropriate academic requirements shall be considered equally for admission to Cerritos College or any academic program regardless of physical or mental disability, gender, gender identity, gender expression, nationality, race or ethnicity, religion, sexual orientation, age, marital status, or genetic information. (Education Code section 66270, Government Code section 11135, Penal Code section 422.6)

Technical Standards Essential Function	Standard Performed Description	Examples of Activities (Not All Inclusive)
Cognitive Ability	<ul style="list-style-type: none">• Demonstrate ability to use logic and technical analysis to identify the strengths and weaknesses of different problem solving approaches.• Demonstrate personal time management to complete assigned tasks by given deadlines.• Exhibit ability to translate written and/or verbal information into task solutions.• Demonstrate ability to execute work requirements in accordance with written instructions.	<ul style="list-style-type: none">• Establish and manage time requirements for completing assigned tasks.• Exercise personal judgment and decision making required to complete assigned tasks.• Determine solutions and procedures to guarantee conformance with task requirements and industry standards.• Self-evaluate utilized problem solving performance to determine new approaches for personal improvement.

	<ul style="list-style-type: none"> • Exhibit deductive reasoning. 	<ul style="list-style-type: none"> • Exhibit the ability to analyze information presented in lectures and demonstrations, books, computer help files, and supplemental documentation – then utilize this knowledge to complete assigned tasks. • Accept constructive criticism from peers and implement recommendations for improvement.
Technical Standards Essential Function	Standard Performed Description	Examples of Activities (Not All Inclusive)
Communication Ability	<ul style="list-style-type: none"> • Demonstrate use of multiple approaches to convey information. • Demonstrate ability to follow verbal directions. • Demonstrate ability to follow written directions. • Discuss directions and methods required to complete a specific architectural design task. • Demonstrate use of industry specific architectural design terms to communicate information. 	<ul style="list-style-type: none"> • Use a variety of presentation methods including: graphical, verbal and written; to convey the required project solution. • Discuss available alternatives and methods that may be used to improve the task solution. • Use oral expression, reading, and writing comprehension to verify the information was received. • Use architectural design terms to present information on graphical and written assigned tasks.
Interpersonal/ Intrapersonal Skills and Behavior	<ul style="list-style-type: none"> • Demonstrate awareness of other people’s reactions and understand why they react the way they do and how you can improve the reception of your work. • Demonstrate ability to identify the nature of problems. • Demonstrate ability to collaborate with others in a group. • Demonstrate ability to maintain and control self-behavior in a group setting. 	<ul style="list-style-type: none"> • Demonstrate respect for individual differences. • Assist peers in resolving problems or conflicts. • Respond appropriately to emergencies. • Work cooperatively within a group to achieve a goal. • Maintain appropriate self-behavior in a work group and/or social environment like a classroom lecture or laboratory demonstration.

Technical Standards Essential Function	Standard Performed Description	Examples of Activities (Not All Inclusive)
Visual Ability	<ul style="list-style-type: none"> • Exhibit recommended 20/20 vision – natural or corrected. • Exhibit accurate vision from 2” to 10’ required. • Demonstrate ability to visually obtain information from technical drawings or written standards. 	<ul style="list-style-type: none"> • Obtain information presented in graphical or written form on paper or in a projector based demonstration from 2” to 10’ with natural vision or corrected vision with contacts or glasses. • Precision use of tools and drafting devices such as parallel bars, scales, and computer keyboards/monitors. • Demonstrate ability to read detailed graphical representations, symbols, and architectural requirements.
Auditory Ability	<ul style="list-style-type: none"> • Demonstrate hearing ability sufficient to communicate with co-workers in close or far proximity, naturally or with the assistance of an interpreter or assistive listening devices. • Demonstrate ability to hear, feel or visually see alarms, bells, sirens, and various other safety alerts. 	<ul style="list-style-type: none"> • Communicate effectively with other office coworkers naturally or with the assistance of an interpreter or assistive listening devices. • Hear and detect safety hazards.
Tactile Ability	<ul style="list-style-type: none"> • Demonstrate tactile ability sufficient for physical control of drafting tools and computer equipment. • Demonstrate manual hand dexterity for physical control of drafting tools and computer equipment. • Demonstrate ability to tactically use multiple extremities simultaneously. 	<ul style="list-style-type: none"> • Perform functions of physical control with various drafting tools and computer equipment. • Perform repetitive keyboard and mouse movements in multiple positions with both hands simultaneously. • Demonstrate ability to have individual hands perform different manual functions simultaneously.
Olfactory Ability	<ul style="list-style-type: none"> • Demonstrate ability to detect hazardous or objectionable fumes. 	<ul style="list-style-type: none"> • Detect smells that represent a potential hazard such as smoke from a fire or burning electrical equipment.

Technical Standards Essential Function	Standard Performed Description	Examples of Activities (Not All Inclusive)
Strength and Mobility	<ul style="list-style-type: none"> • Demonstrate the ability to work with both hands overhead or below the waist. • Demonstrate ability to push and pull equipment. • Demonstrate ability to lift and move projects. 	<ul style="list-style-type: none"> • Demonstrate ability to pick up and carry objects. • Demonstrate ability to work in numerous positions from on the ground to overhead as well as over, under, and around parts, projects and/or structures.
Motor Skills	<ul style="list-style-type: none"> • Demonstrate physical abilities including: standing, sitting, walking, and reaching. • Demonstrate ability to perform controlled accurate movements, motor skills, and techniques with both hands and both arms independently and/or simultaneously. 	<ul style="list-style-type: none"> • Demonstrate ability to continuously improve and further develop manual motor skills.
Physical Endurance	<ul style="list-style-type: none"> • Demonstrate sufficient physical endurance to complete assigned architectural design tasks. 	<ul style="list-style-type: none"> • Sit and/or stand for up to 8 hours a day operating computer keyboard and mouse, lab equipment, and/or drafting equipment. • Make repetitive motions for several hours with the hands, wrists, arms, and feet. • Perform manual operations for extended periods of time.
Environmental Tolerance	<ul style="list-style-type: none"> • Demonstrate ability to work in highly ventilated and/or forced air environments. • Demonstrate ability to work inside for extended periods of time. 	<ul style="list-style-type: none"> • Demonstrate ability to adapt and work in congested areas and/or confined spaces like a small CAD cubicles.

Disability Statement:

If you have a disability or acquire one, you may be entitled to receive support services and/or accommodations intended to assure you an equal opportunity to participate in, and benefit from, the program. Reasonable accommodations for students with disability related needs will be determined on an individual basis taking into consideration the standards and essential skills which must be performed to meet the program objectives. To receive more information or to apply for services, please contact the Center for Access and Disability Services (CADS) at (562) 860-2451 ext. 2335 or (562) 274-7164 (VP), or visit them in the Santa Barbara Building. All prospective and current Architecture students must be able to meet these standards with or without reasonable accommodations.