

Arch 331: Architectural Design Studio

		Missing	Inadequate	Acceptable	Exemplary	Notes
prerequisite	A2: Design thinking skills Raises clear, precise, and thoughtful questions Displays initiative in creating project materials and moving project forward Follows lines of inquiry unique to own scheme and outside of general requirements Meets deadlines for material submission, providing updated models and drawings. Uses abstract ideas to interpret information Considers diverse points of view Reaches well-reasoned conclusions Tests alternative outcomes against relevant criteria and standards					
prerequisite	A3: Visual communication skills & B4: Technical documentation Drawings are adequate to understand the project's main idea. Drawings are accurately labeled. Graphic scales, north arrows. Model is adequate to understand main project characteristics. Work is organized and consistent. Line weights are skillfully manipulated Presentation takes into account the contingencies involved with rendering, printing, and display. Models and drawings display appropriate level of detail for their scale. Models are well crafted Presentation organization is subtle and effective, and adequate to fully understand the proposal. Images show compelling spaces that exhibit the main idea of the project.					
prerequisite	A4: Architectural design skills & A5: Ordering systems Project exhibits an organizing principle that informs major moves in the project. Project exhibits a clear hierarchical ordering structure informed by clear organizational principles. Project provides a clear sense of entry and wayfinding. Displays appropriate aesthetics to communicate project typology and function. Project provides efficient circulation space. Project idea informs the organizational principles, aesthetics, environmental strategies, and material choice of the project.					
prerequisite	A6: Use of precedents Includes images and plans of a precedent architectural project. Provides analysis of precedent work, including images, plans, and construction details, drawing on a handful of examples. Clearly displays application of precedent work into proposed project. Makes informed and well-reasoned choices regarding the incorporation of design principles from precedent work.					

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prerequisite	B5: Structural systems Complete structural diagrams, including foundations and roofs, with top of steel (or finish floor) elevations clearly noted. Sections and wall sections indicate correct structural details. Structural system includes lateral force bracing and heuristic (rule-of-thumb) sizing of members. Models provide an understanding of structure. Understands innovative structural solution if necessitated by unusual design					
prerequisite	B8: Building materials and assemblies Appropriately selects available standard details to produce project details. Appropriately selects existing product and component details available through manufacturers to produce project details. Shows an understanding of material properties through appropriate use and assembly. Shows consideration of environmental properties in selection of materials.					
PRIMARY	B2: Site Design Site plan indicates full site design including sidewalks, drives, parking, topography, materials Site design on ground floor plan(s) Topographic contours on drawings are adequately legible to understand topography Elevation above sea level numbers at site limits and against building or retaining walls Spot elevations at building entrances, stair landings, + 1 per floor plan at elevator lobby Cut/fill diagrams Cut/fill calculation Site design reinforces project's concept Scheme shows an understanding of appropriate site/building interactions Site design gracefully accommodates all necessary elements Contours are skillfully manipulated for minimal site disturbance Scheme shows an understanding of historical fabric and appropriate developmental patterning Scheme shows an understanding of vegetation, soil, and watershed responsibilities					
PRIMARY	B3: Codes and Regulations Egress paths pass through protected areas and exit directly to the outdoors. Calculations illustrate occupancy kind, load, required number of exits, and exit width. Exit distance and common paths of travel do not exceed code requirement. Appropriate egress stairs or paths are fully integrated into the scheme as major architectural elements. Wheelchair users can access all spaces Provide slopes of ramps Appropriate areas of refuge exist There are no dangerous protrusions for visually impaired users Sprinkler riser diagram included. Drawings show evidence of compliance with ADA code Mobility-challenged individuals use the same circulation path as able-bodied individuals					

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supporting	A1: Professional communication skills Notes drawings with appropriate & necessary communication Speaks clearly & succinctly Stands with confidence, alertness, and comfort during presentations Participates attentively during reviews in order to enrich studio conversations					
supporting	B1: Pre-Design Assesses program against collected client and user information & modifies accordingly Includes comprehensive diagrams to explain site conditions & building location Indicates relevant building and zoning codes related to project Indicates opportunities for site-specific sustainable design strategies					
supporting	B6: Environmental systems <i>Ability to demonstrate the principles of environmental systems' design, how design criteria can vary by geographic region, and the tools used for performance assessment. This demonstration must include active and passive heating and cooling, solar geometry, daylighting, natural ventilation, indoor air quality, solar systems, lighting systems, and acoustics.</i> Clearly implements passive heating strategies in the building. Provides HVAC routing diagram and general sizing of equipment Clearly implements passive ventilation strategies for most of the building. Includes clearly legible daylighting rendering or diagrams. Provides natural daylight to almost all occupiable areas of the building. Provides acoustic diagrams of auditorium.					
supporting	B7: Building envelope systems Wall section displays façade's durable connection to structural system. Wall section illustrates watertightness of project. Wall section illustrates how to keep the cold out in winter, with appropriate insulation and prevention of thermal bridging. Project includes appropriate vestibules for weather protection. Wall section illustrates how the details of construction reinforce project's main idea. Wall section illustrates project's approach to energy consumption. Wall section illustrates project's approach to material use. Wall section includes inter-floor fire spread prevention.					
supporting	B9: Building service systems Includes convenient vertical transportation. Addresses security issues in relation to project type. Provides adequate and convenient space for mechanical equipment. Provides appropriate vertical shafts for mechanical equipment. Provides horizontal distribution diagrams of mechanical systems (HVAC, fire protection, plumbing, elevator)					

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supporting	<p>C1: Research</p> <p>Contributes to studio research book</p> <p>Serves as an expert to classmates throughout the semester on topics related to studio book research.</p> <p>Uses research book data in project form and expression</p> <p>Understands the role of applied research in determining function, form, and systems and their impact on human conditions and behavior.</p>					
supporting	<p>C2: Integrated Evaluations & C3: Integrative Design</p> <p>Ability to demonstrate the skills associated with making integrated decisions across multiple systems and variables in the completion of a design project. This demonstration includes problem identification, setting evaluative criteria, analyzing solutions, and predicting the effectiveness of implementation.</p> <p>Ability to make design decisions within a complex architectural project while demonstrating broad integration and consideration of environmental stewardship, technical documentation, accessibility, site conditions, life safety, environmental systems, structural systems, and building envelope systems and assemblies.</p>					
supporting	<p>D1: Stakeholder roles in architecture</p> <p>Understands how the public interest differs from other stakeholders</p> <p>Analyzes quality of life issues within the project</p> <p>Reconciles public interest issues with client issues</p> <p>Respects historic resources</p> <p>Aims to improve quality of life for local and global neighbors</p> <p>Reconciles multiple stakeholder needs.</p> <p>Elicits the needs of the client, owner, user groups, and the public and community.</p>					