

DIVERSIFIED PRACTICAL EXPERIENCE & EDUCATIONAL REQUIREMENTS TABLE

LEVELS of LEARNING

ABILITY: Proficiency in using specific information to accomplish a task, correctly selecting the appropriate information, and accurately applying it to the solution of a specific problem, while also distinguishing the effects of its implementation

UNDERSTANDING: The capacity to classify, compare, summarize, explain, and/or interpret information

1 - HUMANITIES (if satisfying with coursework, 45 semester credit hours total)

COMPLETION	Date	Verified By	Date	Verified By	Course(s) Completed (Transcripts required)
Communication Skills: <i>ABILITY</i> to read, write, speak, and listen effectively					
Investigative Skills: <i>ABILITY</i> to gather, assess, record, apply, and comparatively evaluate relevant information within architectural coursework and design processes					
HUMANITIES & ARTS - Through independent effort or coursework, the study of the expressions and artifacts of human experience in word, image, music and gesture using methods that are primarily analytic, critical, or speculative and that apply rational thought to construct and assess opinions, ideas and arguments					(12 hours min)
QUANTITATIVE REASONING -Through independent effort or coursework, the study of quantitative methods and rational, systematic steps based on sound mathematical procedures to arrive at a conclusion					(9 hours min)
SOCIAL SCIENCES - Through independent effort or coursework, the study of the fields of academic scholarship that explore human society.					(9 hours min)
NATURAL SCIENCES - Through independent effort or cooursework, the study of the universe using a naturalistic approach, which is understood as obeying rules or laws of natural origin. The term Natural Science is also used to distinguish study in those fields that use the scientific method to study science and nature					(9 hours min)

2- HISTORY & THEORY, HUMAN BEHAVIOR, and ENVIRONMENT (16 Semester Credit Hours Total)

COMPLETION	Date	Verified By	Date	Verified By	Course(s) Completed (Transcripts required)
Historical Traditions and Global Culture: <i>UNDERSTANDING</i> of parallel and divergent canons and traditions of architecture, landscape, and urban design including examples of indigenous, vernacular, local, regional, and national settings from the Eastern, Western, Northern, and Southern hemispheres in terms of their climatic, ecological, technological, socioeconomic, public health, and cultural factors					
Cultural Diversity: <i>UNDERSTANDING</i> of the diverse needs, values, behavioral norms, physical abilities, and social and spatial patterns that characterize different cultures and individuals and the implication of this diversity on the societal roles and responsibilities of architects.					

Human Behavior: <i>UNDERSTANDING</i> of the relationship between human behavior, the natural environment and the design of the built environment.					
Sustainability: <i>ABILITY</i> to design projects that optimize, conserve, or reuse natural and built resources; provide healthful environments for occupants/users; and reduce the environmental impacts of building construction and operations on future generations through means such as carbon-neutral design, bioclimatic design, and energy efficiency					
Site Design: <i>ABILITY</i> to respond to site characteristics such as soil, topography, vegetation, and watershed in the development of a project design					
HISTORY & THEORY - Through independent effort or coursework, the study of the traditions of architecture and the built environment, landscape architecture, urban form and construction by which diverse human needs, values and aspirations have been addressed in response to cultural, climatic, ecological, technological, socioeconomic and public health constraints					(6 hours min.)
HUMAN BEHAVIOR - Through independent effort or coursework, the study of the characteristics, nature and behavior of diverse individuals and groups that relate to the physical and spatial environments in which they function, and to the processes of environmental modification and change					(3 hours min.)
ENVIRONMENT - Through independent effort or coursework, the study of man-made conditions, service infrastructure and climatic, ecological, geographic and other natural characteristics of the site that influence the setting for architecture and have an impact on the architectural design process					(3 hours min.)

3 - TECHNICAL & BUILDING SYSTEMS (21 semester credit hours total)

COMPLETION	Date	Verified By	Date	Verified By	Course(s) Completed (Transcripts required)
Structural Systems: <i>UNDERSTANDING</i> of the basic principles of structural behavior in withstanding gravity and lateral forces and the evolution, range, and appropriate application of contemporary structural systems					
Environmental Systems: <i>UNDERSTANDING</i> the principles of environmental systems' design such as embodied energy, active and passive heating and cooling, indoor air quality, solar orientation, daylighting and artificial illumination, and acoustics; including the use of appropriate performance assessment tools					
Building Materials and Assemblies: <i>UNDERSTANDING</i> of the basic principles utilized in the appropriate selection of construction materials, products, components, and assemblies, based on their inherent characteristics and performance, including their environmental impact and reuse					
Building Envelope Systems: <i>UNDERSTANDING</i> of the basic principles involved in the appropriate application of building envelope systems and associated assemblies relative to fundamental performance, aesthetics, moisture transfer, durability and energy and material resources					
Building Service Systems: <i>UNDERSTANDING</i> of the basic principles and appropriate application and performance of building service systems such as plumbing, electrical, vertical transportation, security and fire protection systems.					

STRUCTURAL SYSTEMS - Through independent effort or coursework, the study of the basic structural elements of buildings, their interaction as a support system, the forces that act on and in buildings and the principles, theory and appropriate applications of these systems					(6 hours min.)
ENVIRONMENTAL CONTROL SYSTEMS - Through independent effort or coursework, the study of building elements that pertain to the modification of the microclimate for purposes of human use and comfort					(6 hours min.)
CONSTRUCTION MATERIALS & ASSEMBLIES - Through independent effort or coursework, the study of the characteristics of building materials and how they are used, made and appropriately applied in a building project					(6 hours min.)
BUILDING SERVICE SYSTEMS AND BUILDING ENVELOPE/ENCLOSURE SYSTEMS - Through independent effort or coursework, the study of Building Service Systems, the application and performance of non-thermal mechanical, electrical, control, communications, circulation and signal systems and Building Envelope/Enclosure Systems, the performance characteristics of the building envelope/enclosure					(3 hours min.)

4 - PRACTICE (18 semester credit hours total)

COMPLETION	Date	Verified By	Date	Verified By	Course(s) Completed (Transcripts required)
Client Role in Architecture: <i>UNDERSTANDING</i> of the responsibility of the architect to elicit, understand, and reconcile the needs of the client, owner, user groups, and the public and community domains					
Project Management: <i>UNDERSTANDING</i> of the methods for competing for commissions, selecting consultants and assembling teams, and recommending project-delivery methods					
Leadership: <i>UNDERSTANDING</i> of the techniques and skills architects use to work collaboratively in the building design and construction process and on environmental, social, and aesthetic issues in their communities					
Life Safety: <i>ABILITY</i> to apply the basic principles of life-safety systems with an emphasis on egress					
Technical Documentation: <i>ABILITY</i> to make technically clear drawings, write outline specifications, and prepare models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design					
Financial Considerations: <i>UNDERSTANDING</i> of the fundamentals of building costs, such as acquisition costs, project financing and funding, financial feasibility, operational costs, and construction estimating with an emphasis on life-cycle cost accounting					
Practice Management: <i>UNDERSTANDING</i> of the basic principles of architectural practice management such as financial management and business planning, time management risk management, mediation and arbitration and recognizing trends that affect practice.					
Legal Responsibilities: <i>UNDERSTANDING</i> of the architect's responsibility to the public and the client as determined by registration law, building codes and regulations, professional service contracts, zoning and subdivision ordinances, environmental regulations, professional service contracts, zoning and subdivision ordinances, environmental regulation, historic preservation and accessibility laws					

Ethics and Professional Judgment: <i>UNDERSTANDING</i> of the ethical issues involved in the formation of professional judgment regarding social, political, and cultural issues in architectural design and practice					
Community and Social Responsibility: <i>UNDERSTANDING</i> of the architect's responsibility to work in the public interest, to respect historic resources, and to improve the quality of life for local and global neighbors					
PROJECT PROCESS - Through independent effort or coursework, the study of the entire range of activities involved in a typical architectural design project as it moves from inception through completion of construction. These activities include not only those which the architect carries out, but also those of other professions.					(3 hours min)
PROJECT ECONOMICS - Through independent effort or coursework, the study of the financial aspects of building, including the economics of development					(3 hours min.)
BUSINESS MANAGEMENT - Through independent effort or coursework, the study of the concepts, standards and procedures related to different forms of organization for architectural practice, including private and corporate offices as well as public-sector organizations and agencies.					(3 hours min)
LAWS & REGULATIONS - Through independent effort or coursework, the study of the body of common law, legislation, and regulation in the United States, including rules of professional conduct that affect architectural practice					(3 hours min)
TECHNICAL DOCUMENTATION - Through independent effort or coursework, the ability to prepare technically clear and accurate drawings, outline specifications and models illustrating and identifying the assembly of material, systems and components appropriate for a building design					(3 hours min)
ETHICS & SOCIAL RESPONSIBILITY - Through independent effort or coursework, the study of the application of professional judgement and leadership on ethical subjects regarding social, legal, political, and cultural issues in architectural design and practice. It includes the architect's responsibility to work in the public interest to respect historic assets and to improve the quality of life for local and global societies.					(3 hours min)

5 - DESIGN (50 semester credit hours total)

COMPLETION	Date	Verified By	Date	Verified By	Course(s) Completed (Transcripts required)
Visual Communication Skills: <i>ABILITY</i> to use appropriate representational media, such as traditional graphic and digital technology skills, to convey essential formal elements at each stage of the programming and design process					
Investigative Skills: <i>ABILITY</i> to gather, assess, record, apply, and comparatively evaluate relevant information within architectural coursework and design processes					
Design Thinking Skills: <i>ABILITY</i> to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points					

Fundamental Design Skills: <i>ABILITY</i> to effectively use basic architectural and environmental principles in design					
Ordering Systems Skills: <i>UNDERSTANDING</i> of the fundamentals of both natural and formal ordering systems and the capacity of each to inform two- and three-dimensional design					
Use of Precedents: <i>ABILITY</i> to examine and comprehend the fundamental principles present in relevant precedents and to make choices regarding the incorporation of such principles into architecture and urban design projects.					
Pre-Design: <i>ABILITY</i> to prepare a comprehensive program for an architectural project, such as preparing an assessment of client and user needs, an inventory of space and equipment requirements, and analysis of site conditions (including existing buildings), a review of the relevant laws and standards and an assessment of their implications for the project, and a definition of site selection and design assessment criteria					
Site Design: <i>ABILITY</i> to respond to site characteristics such as soil, topography, vegetation, and watershed in the development of a project design					
Structural Systems: <i>UNDERSTANDING</i> of the basic principles of structural behavior in withstanding gravity and lateral forces and the evolution, range, and appropriate application of contemporary structural systems					
Building Materials and Assemblies: <i>UNDERSTANDING</i> of the basic principles utilized in the appropriate selection of construction materials, products, components and assemblies, based on their inherent characteristics and performance, including their environmental impact and reuse.					
Applied Research: <i>UNDERSTANDING</i> the role of applied research in determining function, form, and systems, and their impact on human conditions and behavior					
Sustainability: <i>ABILITY</i> to design projects that optimize, conserve, or reuse natural and built resources, provide healthful environments for occupants/users, and reduce the environmental impacts of building construction and operations on future generations through means such as carbon-neutral design, bioclimatic design, and energy efficiency					
Building Envelope Systems: <i>Understanding</i> of the basic principles involved in the appropriate application of building envelope systems and associated assemblies relative to fundamental performance, aesthetics, moisture transfer, durability, and energy and material resources					
Accessibility: <i>ABILITY</i> to design sites, facilities, and systems to provide independent and integrated use by individuals with physical (including mobility), sensory and cognitive disabilities.					
Life Safety: <i>ABILITY</i> to apply the basic principles of life-safety systems with an emphasis on egress.					
Environmental Systems: <i>UNDERSTANDING</i> the principles of environmental systems' design such as embodied energy, active and passive heating and cooling, indoor air quality, solar orientation, daylighting and artificial illumination and acoustics, including the use of appropriate performance assessment tools.					
Building Service Systems: <i>UNDERSTANDING</i> of the basic principles and appropriate application and performance of building service systems such as plumbing, electrical, vertical transportation, security, and fire protection systems.					
Technical Documentation: <i>ABILITY</i> to make technically clear drawings, write outline specifications, and prepare models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.					

<p>Comprehensive Design: <i>ABILITY</i> to produce a comprehensive architectural project that demonstrates each student's capacity to make design decisions across scales while integrating the following: esign Thinking Skills; Investigative Skills; Historical Traditions and Global Culture; Site Design; Environmental Systems; Technical Documentation; Ordering Systems; Accessibility; Sustainability; Life-Safety; Structural Systems</p>					
<p>Collaboration: <i>ABILITY</i> to work in collaboration with others and in multidisciplinary teams to successfully complete design projects</p>					
<p>DESIGN LEVEL I - Through independent effort or coursework, individual learning experiences with two-dimensional and three-dimensional spatial contexts and ordering systems; basic architectural and environmental design principles, beginning user consciousness with a familiarity of spatial analysis, natural and formal ordering systems, design process methodology and development of communication skills using appropriate media and design literacy</p>					(8 hours max)
<p>DESIGN LEVEL II - Through independent effort or coursework, individual learning experiences with emphasis on the environment, precedent, user-space study, investigative skills and further design skill development; introduction of qualitative technical materials; a minimum proficiency in the design and communicaiton of simple buildings with an introductory understanding of client need assessment, site (including existing building) assessment, construction and structural systems; and data analysis, programming, site analysis and design</p>					(8 hours max)
<p>DESIGN LEVEL III- Through independent effort or coursework, individual and group learning experiences with emphasis on simple and complex building case studies with applied research and qualitative technical input; individual and group projects; development of total building synthesis design skills including building envelope/enclosure systems and assemblies; a general proficiency in the complete design of simple buildings with a minimum ability to deal with complex buildings and multiple building complexes; site analysis and design, principles of sustainable design related to man-made and natural resources, healthful environments and reduced impact on the environment; and visual representation of each stage of the programming and design process including traditional and digital media.</p>					(8 hours min)
<p>DESIGN LEVEL IV - Through independent effort or coursework, individual or group learning that emphasizes the synthesis of complex building and multi-building complexes within the urban context; integration of technical information; ability to create technical drawings and specifications; general proficiency in the total synthesis of complex buildings and related systems; structural, environmental, service, transportation, communication, life safety, and accessibility systems; and the social ramifications of planning and architecture. Studio learning at this level may integrate the use of digital media in design decision-making. Level IV requires collaborative group projects and requires mastery of Levels I, II and III.</p>					(8 hours min)

DESIGN LEVEL V - Through independent effort or coursework, individual or group learning that emphasizes comprehensive design and complex building design, planning and urban design. Level V work must indicate a mastery of data collection, analysis, programming, planning, building design; an understanding of the basic principles of structural design, building service systems design, building envelope/enclosure systems, landscape design; facility in other related knowledge and skills; and a full range of representational skills including traditional and digital media. Level V requires collaborative group projects and requires mastery of Levels I, II, III and IV.

(8 hours min)

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UNDERSTANDING: The capacity to classify, compare, summarize, explain, and/or interpret information