2014 National Architectural Accrediting Board (NAAB) Conditions for Accreditation

Student Performance Criteria (SPC)

Bachelor of Environmental Design (BEnvD)

Alpha/No	Cr	Courses	Student Performance Criteria																												
			SPC expected to have been met in preparatory or pre-professional education, if applicable																												
			Realm A								Realm B										Realm C			Realm D						
			A.1 Professional Communication Skills	A.2 Design Thinking Skills	A.3 Investigative Skills	A.4 Architectural Design Skills	A.5 Ordering Systems	A.6 Use of Precedents	A.7 History and Global Culture	A.8 Cultural Diversity and Social Equity	B.1 Pre-Design	B.2 Site Design	B.3 Codes and Regulations	B.4 Technical Documentation	B.5 Structural Systems	B.6 Environmental Systems	B.7 Building Envelope Systems and Assemblies	B.8 Building Materials and Assemblies	B.9 Building Service Systems	B.10 Financial Considerations	C.1 Research	C.2 Integrated Evaluations and Decision-Making Design Process	C.3 Integrative Design	D.1 Stakeholder Roles in Architecture	D.2 Project Management	D.3 Business Practices	D.4 Legal Responsibilities	D.5 Professional Conduct
		A - Ability U- Understanding	A	A	A	A	A	A	U	U	A	A	A	A	A	A	U	U	U	U	U	A	A	U	U	U	U	U
ARCH 100	3	Introduction to the Built Environment								8																		
ARCH 101	4	Basic Design Studio		2		4	5																					
ARCH 132	4	Design Communication																										
ARCH 200	3	Collaboration in Environmental Design																										
ARCH 201	4	Architecture Design Studio																										
ARCH 220	3	Introduction to Environmental Systems A																										
ARCH 235	3	Computer Applications in Design	1	2		4								4														
ARCH 271	3	World Architecture and Urbanism A							7	8																		
ARCH 272	3	World Architecture and Urbanism B																										
ARCH 321	3	Introduction to Environmental Systems A														6				9								
ARCH 341	4	Intermediate Design Studio A	1	2	3	4						2																
ARCH 342	4	Intermediate Design Studio B																										
ARCH 371	3	Design Theory		2	3					8																		
ARCH 415	6	Concentration Design Studio		2	3	4					1										1							
ARCH 433	3	Professional Practice Law & Ethics																										

Doctor of Architecture (DArch)

Student Performance Criteria (SPC) for required graduate courses

Alpha/No	Cr	Courses	Student Performance Criteria																												
			SPC Met in NAAB-accredited program																												
			Realm A								Realm B										Realm C			Realm D						
			A.1 Professional Communication Skills	A.2 Design Thinking Skills	A.3 Investigative Skills	A.4 Architectural Design Skills	A.5 Ordering Systems	A.6 Use of Precedents	A.7 History and Global Culture	A.8 Cultural Diversity and Social Equity	B.1 Pre-Design	B.2 Site Design	B.3 Codes and Regulations	B.4 Technical Documentation	B.5 Structural Systems	B.6 Environmental Systems	B.7 Building Envelope Systems and Assemblies	B.8 Building Materials and Assemblies	B.9 Building Service Systems	B.10 Financial Considerations	C.1 Research	C.2 Integrated Evaluations and Decision-Making Design Process	C.3 Integrative Design	D.1 Stakeholder Roles in Architecture	D.2 Project Management	D.3 Business Practices	D.4 Legal Responsibilities	D.5 Professional Conduct
		A - Ability U- Understanding	A	A	A	A	A	A	U	U	A	A	A	A	A	A	U	U	U	U	U	A	A	U	U	U	U	U
ARCH 715	3	Asia-Pacific Architectural History and Theory							7	8																		
ARCH 716	3	Architecture and Urban Design Theory						6		8												2						
ARCH 722	3	Architecture Systems I: Introduction to Systems														6		8										
ARCH 723	3	Arch Sys II: Qualitative Bioclimatic Structural Performance												4		6												
ARCH 724	3	Arch Sys III: Quantitative Structural Analysis and Design												4	5													
ARCH 725	3	Arch Sys IV: Environmental Technology, Sustainability, and Analysis														6			9									
ARCH 726	3	Architecture Systems V: Building Systems Integration												4								2	3					
ARCH 731	3	Advanced Design Communication I	1			4																						
ARCH 733	3	Advanced Design Communication II	1			4								4														
ARCH 739	3	Research Methods Seminar			3																1	2						
ARCH 740	6	Architecture Studio I: Intro to Design	1	2	3	4	5				1	2																
ARCH 742	6	Architecture Studio III: Complex Buildings			3	4					1		3															
ARCH 743	6	Architecture Studio IV: Urban Design		2			5	6				2	3															
ARCH 744	6	Architecture Studio V: Comprehensive Design											3	4			7	8			1	2	3					
ARCH 745	3	Advanced Practice																		10				1	2	3	4	5
ARCH 747	12	Professional Studio																			1			1	2	3	4	5
ARCH 750	6	Architecture Studio			3	4		6			1										1	2						
ARCH 755	3	(GT) Advanced Global Practice																						1		3	4	
ARCH 771	3	World Architecture History & Theory							7	8														1		3	4	
ARCH 781	3	Critical Inquiry Research Program						6													1	2						
ARCH 784	6	Doctorate Project I																			1	2						
ARCH 786	6	Doctorate Project II																			1	2						
ARCH 788	3	Doctorate Project II Extension																			1	2						

University of Hawai'i at Mānoa

Doctor of Architecture (DArch) with Pre-Professional Degree

student name _____

ID or username _____ entry semester _____

120 UNDERGRADUATE CREDITS

SEM / YEAR		DESIGN & RESEARCH		TECHNOLOGY		PRACTICE	HISTORY / THEORY	ELECTIVES		CRDS
Year 1	**Fall**	**ARCH 742** [6] Arch Studio III: Complex Building	**ARCH 733** [3] Advanced Design Com II	**ARCH 723** [3] Arch Sys II: Qual Bio Struct Perform			**ARCH 715** [3] Asia-Pacific Arch History & Theory			
	PRE-REQ						*DArch Major*			**15**
	Spring	**ARCH 743** [6] Arch Studio IV: Urban Design	**ARCH 739** [3] Research Methods	**ARCH 724** [3] Arch Sys III: Qual Struct Anal & Design	**ARCH 725** [3] Arch Sys IV: Environ Tech, Sust & Anal					
	PRE-REQ	*Arch 742, 733*	*Arch 715*	*Arch 723*	*Arch 723*					**15**
	Summer		**ARCH 750G** [6] Design Research Studio							
	PRE-REQ		*Arch 739, 743*							**6**
Year 2	**Fall**	**ARCH 744** [6] Comprehensive Studio	**ARCH 781** [3] Research Seminar		**ARCH 726** [3] Systems V: Integration	**ARCH 745** [3] Advanced Professional Practice				
	PRE-REQ	*Arch 726 concurrent; Arch 724, 725, 743*	*Arch 739, 743*		*Arch 744 concurrent; Arch 724, 725, 733, 744*	*Arch 739, 743*				**15**
	Spring					**ARCH 747** [12] Professional Studio				
	PRE-REQ					*Arch 744, 745*				**12**
	Summer									
Year 3	**Fall**		**ARCH 784H** [6] Doctorate Project I				**ARCH 716** [3] Contemporary Design Theory	**ARCH 6xx** [3] Arch Elective	**ARCH 6xx** [3] Arch Elective	
	PRE-REQ		*Arch 747 C, P or E*				*Arch 715*			**15**
	Spring		**ARCH 786H** [6] Doctorate Project II					**ARCH 6xx** [3] Arch Elective	**ARCH 6xx** [3] Arch Elective	
	PRE-REQ		*Arch 784H*							**12**
									TOTAL	**90**

11 August 2016; format rev July 2018

University of Hawai'i at Mānoa

Doctor of Architecture (DArch) with Non Pre-Professional Degree

student name _____

ID or username _____ entry semester _____

120 UNDERGRADUATE CREDITS

SEM / YEAR		DESIGN & RESEARCH		TECHNOLOGY		PRACTICE	HISTORY / THEORY	ELECTIVES		
UG Required	**Fall**	**ARCH STUDIO** *Undergraduate* If portfolio inadequate in basic design	**ART STUDIO** *Undergraduate* If portfolio inadequate in basic design	**MATH 140** [3] Pre-Calculus *Undergraduate*	**PHYS 151+L** [4] College Physics + Lab *Undergraduate*	*Undergraduate credits do not count toward graduate degree.*				
Boot Camp	**Spring**	**ARCH 740** [6] Architecture Studio I: Small Building	**ARCH 731** [3] Design Communication I	**ARCH 722** [3] Architecture Systems I: Intro to Systems *Math 140 or Concurrent*			**ARCH 771** [3] World Architecture History & Theory	**ARCH 6XX** [3] Arch Elective		18

SEM / YEAR		DESIGN & RESEARCH		TECHNOLOGY		PRACTICE	HISTORY / THEORY	ELECTIVES		CRDS
Year 1	**Fall** *PRE-REQ*	**ARCH 742** [6] Arch Studio III: Complex Building	**ARCH 733** [3] Advanced Design Com II	**ARCH 723** [3] Arch Sys II: Qual Bio Struct Perform			**ARCH 715** [3] Asia-Pacific Arch History & Theory			15
	Spring *PRE-REQ*	**ARCH 743** [6] Arch Studio IV: Urban Design *Arch 742, 733*	**ARCH 739** [3] Research Methods *Arch 715*	**ARCH 724** [3] Arch Sys III: Qual Struct Anal & Design *Arch 723*	**ARCH 725** [3] Arch Sys IV: Environ Tech, Sust & Anal *Arch 723*					15
	Summer *PRE-REQ*		**ARCH 750G** [6] Design Research Studio *Arch 739, 743*							6
Year 2	**Fall** *PRE-REQ*	**ARCH 744** [6] Comprehensive Studio *Arch 726 concurrent; Arch 724, 725, 743*	**ARCH 781** [3] Research Seminar *Arch 739, 743*		**ARCH 726** [3] Systems V: Integration *Arch 744 concurrent; Arch 724, 725, 733, 744*	**ARCH 745** [3] Advanced Professional Practice *Arch 739, 743*				15
	Spring *PRE-REQ*					**ARCH 747** [12] Professional Studio *Arch 744, 745*				12
	Summer									
Year 3	**Fall** *PRE-REQ*		**ARCH 784H** [6] Doctorate Project I *Arch 747 C, P or E*				**ARCH 716** [3] Contemporary Design Theory *Arch 715*	**ARCH 6xx** [3] Arch Elective	**ARCH 6xx** [3] Arch Elective	15
	Spring *PRE-REQ*		**ARCH 786H** [6] Doctorate Project II *Arch 784H*					**ARCH 6xx** [3] Arch Elective	**ARCH 6xx** [3] Arch Elective	12
									TOTAL	108

Doctor of Architecture (DArch)

2014 NAAB Student Performance Criteria (SPC) for Required Graduate Courses

(Revised August 2018)

ARCH 715 Asia-Pacific Architectural History and Theory (3) Study of the history and theory of culture and the built environment with particular focus on the Asia-Pacific region.

A.7 History and Global Culture: Understanding of the parallel and divergent histories of architecture and the cultural norms of a variety of indigenous, vernacular, local, and regional settings in terms of their political, economic, social, ecological, and technological factors.

A.8 Cultural Diversity and Social Equity: Understanding of the diverse needs, values, behavioural norms, physical abilities, and social and spatial patterns that characterize different cultures and individuals and the responsibility of the architect to ensure equity of access to sites, buildings, and structures.

ARCH 716 Architecture and Urban Design Theory (3) Detailed investigation of major theories in architecture and urban design and examination of their impact on contemporary architectural practice in varied geo-political contexts.

A.6 Use of Precedents: Ability to examine and comprehend the fundamental principles present in relevant precedents and to make informed choices about the incorporation of such principles into architecture and urban design projects.

A.8 Cultural Diversity and Social Equity: Understanding of the diverse needs, values, behavioural norms, physical abilities, and social and spatial patterns that characterize different cultures and individuals and the responsibility of the architect to ensure equity of access to sites, buildings, and structures.

ARCH 722 Architecture Systems I: Introduction to Systems (3) Study of building materials, assemblies, and integrated design including structural, environmental, life-safety, and building envelope systems. Development of ability to design, analyze and assess appropriate systems.

B.6 Environmental Systems: 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, day lighting, natural ventilation, indoor air quality, solar systems, lighting systems, and acoustics.

B.8 Building Materials and Assemblies: Understanding of the basic principles used in the appropriate selection of interior and exterior construction materials, finishes, products, components, and assemblies based on their inherent performance, including environmental impact and reuse.

ARCH 723 Architecture Systems II: Qualitative Bioclimatic and Structural Performance (3) Introduction to the theory of bioclimatic principles and structural systems and the ability to analyze, assess, select, design, and integrate them as initial determinants into the building design.

B.4 Technical Documentation: Ability to make technically clear drawings, prepare outline specifications, and construct models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.

B.6 Environmental Systems: 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, day lighting, natural ventilation, indoor air quality, solar systems, lighting systems, and acoustics.

ARCH 724 Architecture Systems III: Quantitative Structural Analysis and Design (3) Introduction to procedures and wood, steel, concrete, and masonry material properties used for structural analysis and design of individual structural elements and building structural systems.

B.4 Technical Documentation: Ability to make technically clear drawings, prepare outline specifications, and construct models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.

B.5 Structural Systems: Ability to demonstrate the basic principles of structural systems and their ability to withstand gravitational, seismic, and lateral forces, as well as the selection and application of the appropriate structural system.

ARCH 725 Architecture Systems IV: Environmental Technology, Sustainability, and Analysis (3) Application and analysis of high-performance building design principles. Emphasis on climate-appropriate passive design, energy-efficient lighting and conditioning strategies, innovative water systems, and renewable energy production.

B.6 Environmental Systems: 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, day lighting, natural ventilation, indoor air quality, solar systems, lighting systems, and acoustics.

B.9 Building Service Systems: Understanding of the basic principles and appropriate application and performance of building service systems, including lighting, mechanical, plumbing, electrical, communication, vertical transportation, security, and fire protection systems.

ARCH 726 Architecture Systems V: Building Systems Integration (3) Properties, evolution, and range of building materials, assemblies, and systems and their applications in integrated high-performance building design with a focus on the role of detail and systems in the design process.

B.4 Technical Documentation: Ability to make technically clear drawings, prepare outline specifications, and construct models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.

C.2 Integrated Evaluations and Decision-Making Design Process: 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.

C.3 Integrative Design: 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.

ARCH 731 Advanced Design Communication I (3) Exploration of digital technologies, their relationship to design, and their application to architectural analysis, conceptualization, design processes, communication, representation, and construction.

A.1 Professional Communication Skills: Ability to write and speak effectively and use representational media appropriate for both within the profession and with the general public.

A.4 Architectural Design Skills: Ability to effectively use basic formal, organizational and environmental principles and the capacity of each to inform two- and three-dimensional design.

ARCH 733 Advanced Design Communication II (3) An interdisciplinary investigation of design theory as connected to digital technology and its applications to current developments in practice and research within architecture and design.

A.1 Professional Communication Skills: Ability to write and speak effectively and use representational media appropriate for both within the profession and with the general public.

A.4 Architectural Design Skills: Ability to effectively use basic formal, organizational and environmental principles and the capacity of each to inform two- and three- dimensional design.

B.4 Technical Documentation: Ability to make technically clear drawings, prepare outline specifications, and construct models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.

ARCH 739 Research Methods Seminar (3) Comprehensive assessment of objectives and function of research in architecture and landscape architecture. Lecture, seminar, independent work with emphasis on research project topic and proposal development.

A.3 Investigative Skills: Ability to gather, assess, record, and comparatively evaluate relevant information and performance in order to support conclusions related to a specific project or assignment.

C.1 Research: Understanding of the theoretical and applied research methodologies and practices used during the design process.

C.2 Integrated Evaluations and Decision-Making Design Process: 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.

ARCH 740 Architecture Studio I: Intro to Design (6) Design theories and systematic analytic and synthetic methodologies applied to creation of building and site spaces responsive to environmental and human needs. Several individual projects.

A.1 Professional Communication Skills: Ability to write and speak effectively and use representational media appropriate for both within the profession and with the general public.

A.2 Design Thinking Skills: Ability to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standards.

A.3 Investigative Skills: Ability to gather, assess, record, and comparatively evaluate relevant information and performance in order to support conclusions related to a specific project or assignment.

A.4 Architectural Design Skills: Ability to effectively use basic formal, organizational and environmental principles and the capacity of each to inform two- and three-dimensional design.

A.5 Ordering Systems: Ability to apply the fundamentals of both natural and formal ordering systems and the capacity of each to inform two- and three dimensional design.

B.1 Pre-Design: Ability to prepare a comprehensive program for an architectural project that includes an assessment of client and user needs; an inventory of spaces and their requirements; an analysis of site conditions (including existing buildings); a review of the relevant building codes and standards, including relevant sustainability requirements, and an assessment of their implications for the project; and a definition of site selection and design assessment criteria.

B.2 Site Design: Ability to respond to site characteristics, including urban context and developmental patterning, historical fabric, soil, topography, ecology, climate, and building orientation, in the development of a project design.

ARCH 742 Architecture Studio III (6) Design of complex, large scale building and site engaging social, cultural, code, sustainable systems, and acoustic issues. Production of schematic and design development documents.

A.3 Investigative Skills: Ability to gather, assess, record, and comparatively evaluate relevant information and performance in order to support conclusions related to a specific project or assignment.

A.4 Architectural Design Skills: Ability to effectively use basic formal, organizational and environmental principles and the capacity of each to inform two- and three-dimensional design.

B.1 Pre-Design: Ability to prepare a comprehensive program for an architectural project that includes an assessment of client and user needs; an inventory of spaces and their requirements; an analysis of site conditions (including existing buildings); a review of the relevant building codes and standards, including relevant sustainability requirements, and an assessment of their implications for the project; and a definition of site selection and design assessment criteria.

B.3. Codes and Regulations: Ability to design sites, facilities, and systems that are responsive to relevant codes and regulations, and include the principles of life-safety and accessibility standards.

ARCH 743 Architecture Studio IV: Urban Design (6) Urban design focused on Asian cities investigating social, cultural, political, and technological factors; study of historical precedents, building/block typology, circulation, infrastructure, and context response.

A.2 Design Thinking Skills: Ability to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standards.

A.5 Ordering Systems: Ability to apply the fundamentals of both natural and formal ordering systems and the capacity of each to inform two- and three dimensional design.

A.6 Use of Precedents: Ability to examine and comprehend the fundamental principles present in relevant precedents and to make informed choices about the incorporation of such principles into architecture and urban design projects.

B.2 Site Design: Ability to respond to site characteristics, including urban context and developmental patterning, historical fabric, soil, topography, ecology, climate, and building orientation, in the development of a project design.

B.3. Codes and Regulations: Ability to design sites, facilities, and systems that are responsive to relevant codes and regulations, and include the principles of life-safety and accessibility standards.

ARCH 744 Architecture Studio V: Comprehensive Design (6) Design and programming for a moderately complex building and site. Production of design development and partial construction documents describing sustainable building assemblies and construction cost.

B.3. Codes and Regulations: Ability to design sites, facilities, and systems that are responsive to relevant codes and regulations, and include the principles of life-safety and accessibility standards.

B.4 Technical Documentation: Ability to make technically clear drawings, prepare outline specifications, and construct models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.

B.7 Building Envelope Systems and Assemblies: Understanding of the basic principles involved in the appropriate selection and application of building envelope systems relative to fundamental performance, aesthetics, moisture transfer, durability, and energy and material resources.

B.8 Building Materials and Assemblies: Understanding of the basic principles used in the appropriate selection of interior and exterior construction materials, finishes, products, components, and assemblies based on their inherent performance, including environmental impact and reuse.

C.1 Research: Understanding of the theoretical and applied research methodologies and practices used during the design process.

C.2 Integrated Evaluations and Decision-Making Design Process: 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.

C.3 Integrative Design: 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.

ARCH 745 Advanced Practice (3) Comprehensive study of architectural practice investigating architect's response to global forces, including entrepreneurial practice, office organization, project delivery, compensation, and construction law.

B.10 Financial Considerations: Understanding of the fundamentals of building costs, which must include project financing methods and feasibility, construction cost estimating, construction scheduling, operational costs, and life-cycle costs.

D.1 Stakeholder Roles in Architecture: Understanding of the relationships among key stakeholders in the design process—client, contractor, architect, user groups, local community—and the architect's role to reconcile stakeholder needs.

D.2 Project Management: Understanding of the methods for selecting consultants and assembling teams; identifying work plans, project schedules, and time requirements; and recommending project delivery methods.

D.3 Business Practices: Understanding of the basic principles of a firm's business practices, including financial management and business planning, marketing, organization, and entrepreneurship.

D.4 Legal Responsibilities: Understanding of the architect's responsibility to the public and the client as determined by regulations and legal considerations involving the practice of architecture and professional service contracts.

D.5 Professional Conduct: Understanding of the ethical issues involved in the exercise of professional judgment in architectural design and practice and understanding the role of the NCARB Rules of Conduct and the AIA Code of Ethics in defining professional conduct.

ARCH 747 (Alpha) Professional Studio (V) Scholarly and research activity combined with professional experience occurring in an off-campus location.

C.1 Research: Understanding of the theoretical and applied research methodologies and practices used during the design process.

D.1 Stakeholder Roles in Architecture: Understanding of the relationships among key stakeholders in the design process—client, contractor, architect, user groups, local community—and the architect's role to reconcile stakeholder needs.

D.2 Project Management: Understanding of the methods for selecting consultants and assembling teams; identifying work plans, project schedules, and time requirements; and recommending project delivery methods.

D.3 Business Practices: Understanding of the basic principles of a firm's business practices, including financial management and business planning, marketing, organization, and entrepreneurship.

D.4 Legal Responsibilities: Understanding of the architect's responsibility to the public and the client as determined by regulations and legal considerations involving the practice of architecture and professional service contracts.

D.5 Professional Conduct: Understanding of the ethical issues involved in the exercise of professional judgment in architectural design and practice and understanding the role of the NCARB Rules of Conduct and the AIA Code of Ethics in defining professional conduct.

ARCH 750 (Alpha) Architecture Studio (6) Urban design focused on investigating social, cultural, political, and technological factors; study of historical precedents, building/block typology, circulation, infrastructure, and context response.

A.3 Investigative Skills: Ability to gather, assess, record, and comparatively evaluate relevant information and performance in order to support conclusions related to a specific project or assignment.

A.4 Architectural Design Skills: Ability to effectively use basic formal, organizational and environmental principles and the capacity of each to inform two- and three-dimensional design.

A.6 Use of Precedents: Ability to examine and comprehend the fundamental principles present in relevant precedents and to make informed choices about the incorporation of such principles into architecture and urban design projects.

B.1 Pre-Design: Ability to prepare a comprehensive program for an architectural project that includes an assessment of client and user needs; an inventory of spaces and their requirements; an analysis of site conditions (including existing buildings); a review of the relevant building codes and standards, including relevant sustainability requirements, and an assessment of their implications for the project; and a definition of site selection and design assessment criteria.

C.1 Research: Understanding of the theoretical and applied research methodologies and practices used during the design process.

C.2 Integrated Evaluations and Decision-Making Design Process: 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.

ARCH 755 Advanced Global Practice (3) Comprehensive study of architectural practice investigating architect's response to global forces, including entrepreneurial practice, office organization, project delivery, compensation, and construction law.

D.1 Stakeholder Roles in Architecture: Understanding of the relationships among key stakeholders in the design process—client, contractor, architect, user groups, local community—and the architect's role to reconcile stakeholder needs.

D.3 Business Practices: Understanding of the basic principles of a firm's business practices, including financial management and business planning, marketing, organization, and entrepreneurship.

D.4 Legal Responsibilities: Understanding of the architect's responsibility to the public and the client as determined by regulations and legal considerations involving the practice of architecture and professional service contracts.

ARCH 771 Architecture History (3) Investigation of architectural history and theory in the world from antiquity to present. Examining social, political, technological, material, and environmental forces.

A.7 History and Global Culture: Understanding of the parallel and divergent histories of architecture and the cultural norms of a variety of indigenous, vernacular, local, and regional settings in terms of their political, economic, social, ecological, and technological factors.

A.8 Cultural Diversity and Social Equity: Understanding of the diverse needs, values, behavioural norms, physical abilities, and social and spatial patterns that characterize different cultures and individuals and the responsibility of the architect to ensure equity of access to sites, buildings, and structures.

ARCH 781 Advanced Research Methods and Design Inquiry (3) Individual development of a doctorate proposal that advances architectural knowledge through analysis, research, scholarship, and design.

A.6 Use of Precedents: Ability to examine and comprehend the fundamental principles present in relevant precedents and to make informed choices about the incorporation of such principles into architecture and urban design projects.

C.1 Research: Understanding of the theoretical and applied research methodologies and practices used during the design process.

C.2 Integrated Evaluations and Decision-Making Design Process: 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.

ARCH 784 (Alpha) Doctorate Project I (V) Individual development of a doctorate project with an approved chair and doctorate project committee that advances architectural knowledge through analysis, research, scholarship, and design.

C.1 Research: Understanding of the theoretical and applied research methodologies and practices used during the design process.

C.2 Integrated Evaluations and Decision-Making Design Process: 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.

ARCH 786 (Alpha) Doctorate Project II (V) Individual development of a doctorate project with an approved chair and doctorate project committee that advances architectural knowledge through analysis, research, scholarship, design, and engages theoretical and architectonic propositions.

C.1 Research: Understanding of the theoretical and applied research methodologies and practices used during the design process.

C.2 Integrated Evaluations and Decision-Making Design Process: 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.

ARCH 788 Doctorate Project II Extension (3) Extension of the development of a doctorate project with an approved committee that advances architectural knowledge through research, scholarship, design, and engages theoretical and architectonic propositions.

C.1 Research: Understanding of the theoretical and applied research methodologies and practices used during the design process.

C.2 Integrated Evaluations and Decision-Making Design Process: 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.