### Bachelor of Environmental Design (BeEnD)

**Student Performance Criteria (SPC)**

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### Doctor of Architecture (DArch)

**Student Performance Criteria (SPC)** for required graduate courses

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For each course, "A" denotes Ability, "U" denotes Understanding, and "UU" denotes Understanding, Understanding.
# Doctor of Architecture (DArch) with Pre-Professional Degree

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<th>DESIGN &amp; RESEARCH</th>
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11 August 2016; format rev July 2018  
TOTAL: 90
### Year 1

#### Fall
- **Design & Research**
  - **ARCH 740 [6]**: Architecture Studio I: Small Building
  - **ARCH 731 [3]**: Design Communication I
  - **ARCH 722 [3]**: Architecture Systems I: Intro to Systems
  - **ARCH 724 [6]**: Architectural Studio III: Complex Building
  - **ARCH 733 [3]**: Advanced Design Comm II
  - **ARCH 723 [3]**: Architectural Systems II: Qual Bio Struct Perform
- **Technology**
  - **MATH 140 [3]**: Pre-Calculus
  - **PHYS 151+L [4]**: College Physics + Lab
- **Practice**
  - **ARCH 715 [3]**: World Architecture History & Theory
- **Electives**
  - **ARCH 6XX [3]**: Arch Elective

#### Spring
- **Design & Research**
  - **ARCH 742 [6]**: Architectural Studio IV: Urban Design
  - **ARCH 732 [3]**: Research Methods
  - **ARCH 725 [3]**: Architectural Systems III: Qual Struct Anal & Design
  - **ARCH 739 [3]**: Research Seminar
  - **ARCH 726 [3]**: Architectural Systems V: Integration
- **Electives**
  - **ARCH 747 [12]**: Professional Studio
  - **ARCH 750G [6]**: Design Research Studio

#### Summer
- **Design & Research**
  - **ARCH 750G [6]**: Design Research Studio
  - **ARCH 739, 743**
- **Electives**
  - **ARCH 744, 745**

### Year 2

#### Fall
- **Design & Research**
  - **ARCH 744 [6]**: Comprehensive Studio
  - **ARCH 781 [3]**: Research Seminar
  - **ARCH 784 [6]**: Doctorate Project I
  - **ARCH 745 [3]**: Architectural Systems V: Integration
  - **ARCH 739, 743**
- **Electives**
  - **ARCH 747 [12]**: Professional Studio

#### Spring
- **Design & Research**
  - **ARCH 786H [6]**: Doctorate Project II
- **Electives**
  - **ARCH 784H**

### Year 3

#### Fall
- **Design & Research**
  - **ARCH 784H [6]**: Doctorate Project I
  - **ARCH 716 [3]**: Contemporary Design Theory
  - **ARCH 747 [12]**: Professional Studio
  - **ARCH 715**
  - **ARCH 744, 745**
- **Electives**
  - **ARCH 6XX [3]**: Arch Elective

#### Spring
- **Design & Research**
  - **ARCH 786H [6]**: Doctorate Project II
  - **ARCH 784H**
  - **ARCH 747 C, P or E**
  - **ARCH 715**
- **Electives**
  - **ARCH 784H**

### Course Notes
- Undergraduate credits do not count toward graduate degree.
- If portfolio inadequate in basic design, ARCH 740, 731, 722, 724, 732, 725, 739, 724, 726, 739, 743 require prerequisite of ARCH 724, 725, 743.

### Total Credits
- **120 Undergraduate Credits**
- **108 Graduation Credits**
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.