ARCH--ARCHITECTURE

ARCH 101 Survey of Architectural Education and Practice (1-2) (CR/NC)
Exploration of the major paradigms which have guided the development of architectural education and the profession. Survey of the roles of the architects and an introduction to curricula and programs designed to prepare students for careers in architecture. Credit/No Credit grading only. Total credit limited to 3 units. 1 lecture. Change effective Summer 2009.

ARCH 105 Architectural Practice 1 (1)
Shop safety, machine and tool operation and small-scale design and construction. 1 laboratory. Corequisite: ARCH 121 or ARCH 131.

ARCH 106 Materials of Construction (2)
Use and application of construction processes and materials. 2 lectures.

ARCH 111 Introduction to Drawing and Perspective (3)
Basic techniques used in graphic communication. Orthographic and isometric projection. Mechanical perspective, shades and shadows. 5 laboratories.

ARCH 121 Design and Drawing 1.1 (3)
An introduction to the issues, concepts, processes and skills pertaining to two- and three-dimensional design and the freehand and constructed representation and visual communication of ideas, objects and environments. 3 laboratories. Concurrent: EDES 101.

ARCH 122 Design and Drawing 1.2 (3)
Continuation of ARCH 121 plus the issues, concepts, processes and skills pertaining to color theory and the design and visual communication of architectural space. 3 laboratories. Prerequisite: ARCH 121 or ARCH 131.

ARCH 123 Design and Drawing 1.3 (3)
Continuation of ARCH 121 and ARCH 122 plus the issues, concepts, processes and skills pertaining to color theory and the design and visual communication of architectural form, space and organizations. 3 laboratories. Prerequisite: ARCH 122 or ARCH 132.

ARCH 131 Design and Visual Communication 1.1 (4)
An introduction to the issues, concepts, processes and skills pertaining to two- and three-dimensional design and the freehand, constructed and digital representation and visual communication of ideas, objects and environments. Purchase of a laptop computer, software and peripherals is highly recommended to participate in this course. 4 laboratories. Corequisite: ARCH 105; concurrent: EDES 101.

ARCH 132 Design and Visual Communication 1.2 (4)
Continuation of ARCH 131 plus the issues, concepts, processes and skills pertaining to color theory and the design and visual communication of architectural space. Purchase of a laptop computer, software and peripherals is highly recommended to participate in this course. 4 laboratories. Prerequisite: ARCH 131.

ARCH 133 Design and Visual Communication 1.3 (4)
Continuation of ARCH 131 and ARCH 132 plus the issues, concepts, processes and skills pertaining to the analysis and design of architectural form, space and organizations. Purchase of a laptop computer, software and peripherals is highly recommended to participate in this course. 4 laboratories. Prerequisite: ARCH 132.

ARCH 160 Digital Tools for Architecture (4)
Substantive introduction to the use of digital tools in architectural design and visual communication in the areas of 3-D modeling, 2-D drawing, image editing and page layout. 4 seminars.

ARCH 202 Creative Problem-Solving (3)
Techniques for stimulating creative behavior applied to general and environmental problems. Development of problem-solving and decision-making skills and knowledge. 3 lectures.

ARCH 204 Architectural Theory (3)
Theories of architectural design. 3 lectures. Prerequisite: EDES 101.

ARCH 207 Environmental Control Systems 1 (4)

ARCH 217 History of World Architecture: Prehistory – Middle Ages (4) GE C3
Architecture and urbanism in the ancient world, from prehistory to the Middle Ages. Social, cultural and physical conditions that influenced the built environment to the Mediterranean basis, plus Europe, Asia, Africa and Pre-Columbian America. 4 lectures. Fulfills GE C3.

ARCH 218 History of World Architecture: Middle Ages – 18th Century (4) GE C3
World architecture and urbanism from the Middle Ages until the end of the 18th century Baroque. Social, cultural and physical conditions which influenced the built environment of Europe, Asia, and the Pre-Columbian and Colonial Americas. 4 lectures. Fulfills GE C3.

ARCH 221 Architectural Design Fundamentals 2.1 (3)
Continuation of ARCH 123 or ARCH 133 in terms of materiality, structure and function and the theories, concepts, processes and skills pertaining to the design of architectural form, space and organizations. 3 laboratories. Prerequisite: ARCH 123 or ARCH 133.

ARCH 222 Architectural Design Fundamentals 2.2 (3)
Continuation of ARCH 221 plus the theories, concepts, processes and skills pertaining to site, context and climate as determinants that shape the built environment. 3 laboratories. Prerequisite: ARCH 221.

ARCH 231 Architectural Practice (3)
Wood construction methods and processes. Construction documents used as communication medium for such methods and processes. 1 lecture, 2 activities. Prerequisite: ARCH 106 plus ARCH 122 or ARCH 132 or ARCH 111. Corequisite: ARCH 252.

ARCH 240 Additional Architectural Laboratory (1–2)
Total credit limited to 4 units, with a maximum of 2 units per quarter. 1 or 2 laboratories.

ARCH 241 Architectural Practice 2.1 (4)
The language, principles and materials of construction with an emphasis on the origin, history, and application of traditional and emergent materials. 2 lectures, 2 activities. Prerequisite: ARCH 123 or ARCH 133. Corequisite: ARCH 251.

ARCH 242 Architectural Practice 2.2 (4)
A continuation of ARCH 241 with an emphasis on the fundamental aspects of construction systems and the basics of construction documentation. 2 lectures, 2 activities. Prerequisite: ARCH 241. Corequisite: ARCH 252.

ARCH 250 Computer Applications (3)
Introduction to the application of computers in architecture. History of computing and its use in architectural practice, hardware options, operating systems, electronic mail, databases, programming languages, graphics systems, survey and use of selected applications in architecture. 2 lectures, 1 laboratory.

ARCH 251 Architectural Design 2.1 (5)
Continuation of ARCH 123 or ARCH 133 in terms of materiality and the theories, concepts, processes and skills pertaining to the analysis and design of architectural form, space and organizations to communicate intended concepts and meanings. 5 laboratories. Prerequisite: ARCH 123 or ARCH 133; corequisite: ARCH 241.

ARCH 252 Architectural Design 2.2 (5)
Continuation of ARCH 251 plus the theories, concepts, processes and skills pertaining to light, construction and function as determinants that shape the built environment and support the communication of intended concepts and meanings. 5 laboratories. Prerequisite: ARCH 251, ARCH 241; corequisite: ARCH 242.

ARCH 253 Architectural Design 2.3 (5)
Continuation of ARCH 251 and ARCH 252 plus the theories, concepts, processes and skills pertaining to context, structure and climate as determinants that shape the built environment and support the communication of intended concepts and meanings. 5 laboratories. Prerequisite: ARCH 252, ARCH 242 and ARCH 160; corequisite: ARCH 207.

ARCH 270 Selected Topics (1–4)
Directed group study of selected topics. The Schedule of Classes will list title selected. Open to first-, second-, third-year students. Total credit limited to 8 units. 1 to 4 lectures.
ARCH 302 Theories of Architectural Design (3)
Theories of architecture and their application in architectural design. 3 lectures. Prerequisite: ARCH 253.

ARCH 307 Environmental Control Systems 2 (4)
Theory and application of climate, energy use and comfort as determinants of architectural form in large-scale buildings. Emphasis on architectural and mechanical methods of ventilating, cooling, heating, lighting, acoustics, and water and waste systems for internal-load dominated buildings. 2 lectures, 2 activities. Prerequisite: ARCH 207. Concurrent: ARCH 352.

ARCH 310 Architectural Design Methods and Theories (4)
Analysis of design process, methods of analysis, synthesis, and evaluation in design. Relation between methods used and theories of design. 4 lectures. Prerequisite: ARCH 253.

ARCH 313 Advanced Delineation (2)
Development of proficiency in architectural presentation. Projects and critiques. 2 laboratories. Prerequisite: ARCH 253.

ARCH 316 California Architecture and the California Dream (3)
Development of California Architecture as the symbolic expression of the myth of the California Dream. Focus on tracing California's unique contribution to architecture and urban patterns in the United States. 3 lectures. Prerequisite: ENGL 134.

ARCH 320 Topics in Architectural History (4) GE C4
In-depth examination of a significant region, movement or period in architectural history, theory and criticism. The material covered will vary depending upon the topic. The Schedule of Classes will list topic selected. Total credit limited to 8 units. 4 lectures. Prerequisite: Junior standing; GE Area A1 and one of the following Area C3 courses: ARCH 217, 218, 219, or ART 112. Fullfills GE C4 except for Architecture majors.

ARCH 326 Native American Architecture and Place (4) GE C4 USCP
The role of culture and setting in the construction of spatial, material and landscape concepts and artifacts, through the introduction of selected North American cultures, with focus from 1300 AD through contemporary time. 4 lectures Prerequisite: Junior standing; completion of GE Areas A, C1 and C2. Crosslisted as ARCH/ES 326. Fullfills GE C4 and USCP.

ARCH 337 Photographic Presentation (2)
Media presentations in architecture with emphasis on black and white and color print photographic presentations, formats, and techniques applicable to architecture subjects and to design communication. 1 lecture, 1 laboratory. Prerequisite: ARCH 123 or ARCH 133.

ARCH 339 Video Presentations in Architecture (2) (CR/NC)
Media presentations in architecture with emphasis on video format and creative camera and editing techniques as applicable to subjects in architecture and design communication. Open to students in CAED. Credit/No Credit grading only. 1 lecture, 1 laboratory. Prerequisite: ARCH 123 or ARCH 133.

ARCH 340 Architectural Photography (4)
Photography specifically related to architecture and design. Advancement of students' technical skills in communicating design through the medium of photography. 2 lectures, 2 laboratories. Prerequisite: ARCH 337.

ARCH 341 Architectural Practice 3.1 (4)
Concepts, methods and processes pertaining to the detailing and construction of masonry, steel, concrete and combination structures. 2 lectures, 2 activities. Prerequisite: ARCH 242 and ARCH 253. Corequisite: ARCH 351.

ARCH 342 Architectural Practice 3.2 (4)
Continuation of ARCH 341 content plus the concepts, methods and processes pertaining to the preparation of outline specifications, production of design development drawings, life safety, systems integration and cost estimating. 2 lectures, 2 activities. Prerequisite: ARCH 341. Corequisite: ARCH 353.

ARCH 351 Architectural Design 3.1 (5)
Continuation of ARCH 253. Development and exploration of architectural theories, building systems, and design processes involved in creating appropriate architecture on a sensitive site; implications of the site as building form generator. 5 laboratories. Prerequisite: ARCH 212, ARCH 253, ARCH 207 and PHYS 122 or PHYS 132, or consent of department head. Corequisite: ARCH 341.

ARCH 352 Architectural Design 3.2 (5)
Continuation of ARCH 351. Development and exploration of architectural theories, building systems, and design processes involved in creating appropriate sustainable architecture with an emphasis on ecological and environmental concerns. 5 laboratories. Prerequisite: ARCH 351, ARCH 341. Corequisite: ARCH 307.

ARCH 353 Architectural Design 3.3 (5)
Continuation of ARCH 352. Development and exploration of architectural theories, building systems, and design processes involved in creating appropriate architecture with an emphasis on socio-cultural and space planning/life safety concerns. 5 laboratories. Prerequisite: ARCH 352, ARCH 307. Corequisite: ARCH 342.

ARCH 363 Off-Campus Orientation Seminar (2) (CR/NC)
Preparation for off-campus architectural study programs includes cultural orientation, an introduction to basic language skills, travel and housing protocols as well as academic and financial advising. Credit/No Credit grading only. Total credit limited to 4 units, with a maximum of 2 units per quarter. 2 seminars. Prerequisite: Consent of instructor.

ARCH 400 Special Problems for Advanced Undergraduates (1–2) (CR/NC)
Individual investigation, research, studies, or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter. Credit/No Credit grading only.

ARCH 401 Toward a Barrier-Free Environment (3)
Exploring the interface between the built environment and human behavior. Physical and psychological design determinants. Attitudes towards deviance, accessible environments and persons with disabilities. Legal, ethical, human factors. 3 lectures. Prerequisite: Junior standing or consent of instructor.

ARCH 407 Environmental Control Systems 3 (4)
Theory and application of mechanical and electrical systems for comfort. Emphasis on internal-load dominated buildings. Consideration of artificial lighting, H.V.A.C. systems, acoustics, water and waste systems. 4 lectures. Prerequisite: ARCH 307.

ARCH 413 The Built Environment: Issues and Education (3)
Identification of major issues in the design and creation of the built environment. Strategies for developing instructional units related to critical thinking and problem solving in the K-12 school setting. 1 lecture, 2 activities. Prerequisite: Junior standing.

ARCH 420 Seminar in Architectural History, Theory and Criticism (4)
Special topics based on the exploration of specific approaches, periods of time, and cultural or geographic areas. The Schedule of Classes will list topic selected. Total credit limited to 12 units; repeatable in same term. 4 seminars. Prerequisite: 4th year standing and ARCH 217, ARCH 218, and ARCH 219, or consent of instructor.

ARCH 443 Professional Practice (4)
A critical analysis of the roles and responsibilities of the architect in providing comprehensive services to the client from project acquisition and inception to project delivery and closeout and the process and requirements for internship development and attaining registration. 2 lectures, 2 activities. Prerequisite: ARCH 342, ARCH 353.

ARCH 445 Urban Design in Architecture (3)
Design role of the urban architect. Economic, environmental and technological forces impacting on architectural practice in urban areas. 3 lectures. Prerequisite: ENGL 134.

ARCH 446 The Small Scale Master Builder (4)
Principles of practice as owner-designer-builder, selling or leasing products. Comparison with traditional practice. Potential income, constraints on design decisions, and ethics. Analysis of factors and methods relevant to such practice, including financing, taxes, accounting, market analysis, and development potential. Starting with little or no capital. 4 lectures. Prerequisite: Fourth-year standing.

ARCH 447 Design Regulations (4)
Practical application of fundamental zoning, subdivision, design/development standards, and building codes in the design review process, either in the form of a proposed development project or preparation of ordinances, codes, standards, and/or guidelines to apply to a project. 4 lectures. Prerequisite: Senior standing, or graduate standing, or consent of instructor. Crosslisted as ARCH/CRP 447.

ARCH 450 Digital Design and Visualization (5)
Theory, principles and techniques of computer aided architectural or product design, visualization, and digital animation. Utilization of desk-top computers and 2-D and 3-D software as integrated tools for development of a comprehensive computer enhanced design process. 5 laboratories. Prerequisite: For architecture majors, all prerequisites required by the year and course level.
for which the student is seeking credit; for non-architecture majors, junior standing or permission of instructor; for local professionals not seeking academic credit, permission of instructor.

ARCH 451 Architectural Design 4.1 (5)
Problems of increasing architectural complexity involving the comprehensive integration of architectural theory, design processes, and building systems with emphasis placed on multifunction singular buildings. 5 laboratories. Prerequisite: ARCE 316, ARCH 353, ARCH 342, or consent of department head.

ARCH 452 Architectural Design 4.2 (5)
Problems of increasing architectural complexity involving the comprehensive integration of architectural theory, design processes, and building systems with emphasis placed on multifunctional projects. 5 laboratories. Prerequisite: ARCE 316, ARCH 353, ARCH 342, or consent of department head.

ARCH 453 Architectural Design 4.3 (5)
Problems of increasing architectural complexity involving the comprehensive integration of architectural theory, design processes, and building systems with emphasis placed on multifunctional projects in an urban context. Total credit limited to 10 units and may substitute for ARCH 451 or ARCH 452. 5 laboratories. Prerequisite: ARCE 316, ARCH 353, ARCH 342, or consent of department head.

ARCH 457 Computer Graphics in Architecture (4)
Two-dimensional drawing systems in architectural practice with particular emphasis on office productivity in the production side of the design process; includes drawing database administration, local area networks, management and cost issues. 2 lectures, 2 laboratories. Prerequisite: Fourth year standing.

ARCH 460 Advanced Computer Graphics in Architecture (3)
Advanced methods in the application of computer graphics and multi-media techniques in architectural design. 2 lectures, 1 activity. Prerequisite: ARCH 133 or ARCH 160 or consent of instructor.

ARCH 461 Advanced Computer-Aided Design in Architecture (3)
Advanced applications of computers in architectural design with emphasis on utilizing intelligent tools in the design process. 2 lectures, 1 activity. Prerequisite: ARCH 457 or equivalent and consent of instructor.

ARCH 462 Topics in Architectural Practice (3-4)
Selected topics addressing various aspects of Architectural Practice for advanced students in CAED. Topics may include strategic planning, managing quality, ethics, and legal considerations. Open to undergraduate and graduate students. The Schedule of Classes will list topic selected. Total credit limited to 3-4 units. Repeatable in same term. 3-4 lectures. Prerequisite: ARCH 342 or consent of instructor. Changed effective Summer 2009.

ARCH 463 Undergraduate Seminar (2) (CR/NC)
Discussion and lectures on problems of practice in architecture. Total credit limited to 6 units. 2 seminars. Prerequisite: Fourth-year standing in architecture. Credit/No Credit grading only.

ARCH 464 Computer Applications in Design (3)
Exposure to all aspects of two-dimensional computer-aided design. Introduction to three-dimensional CAD through the use of AUTOCAD 12 software. The Schedule of Classes will list topic selected. Total credit limited to 12 units. 3 lectures. Prerequisite: Junior standing and current participation in Washington Alexandria Architectural Consortium off-campus program.

ARCH 465 Design Related Media (3)
The role of various media of visual communication as tools of documentation, analysis and creation in the design visual environment. Skills in graphics, photography, product design, film, video techniques, and printmaking will be developed in specific relation to environmental design study and presentation. The Schedule of Classes will list topic selected. Total credit limited to 12 units. 3 lectures. Prerequisite: Junior standing and current participation in Washington Alexandria Architectural Consortium off-campus program.

ARCH 466 Topics in Architectural History and Theory (3)
Design from its beginning with the crafts design period to its expression of architectural theory, principles and practice with creative, organizational and technical abilities in architectural programming, design and design research. Total credit limited to 15 units. 5 laboratories. Prerequisite: 5th-year standing or consent of department head.

ARCH 468 Advanced Environmental Building Systems (3)
Technologies which provide a “well building” environment by engaging in: weather protection; thermal/moisture control; natural and artificial lighting and electrical and other “energy source” utility service. 3 lectures. Prerequisite: Junior standing and current participation in Washington Alexandria Architectural Consortium off-campus program.

ARCH 469 Topics in Design Methods (3)
Relationship of art and architecture addressed to encourage critical debate. Historically, the “art” and the “architecture” were not as polarized as today. Both historical perspective and practical issues concerning collaboration. The Schedule of Classes will list topic selected. Total credit limited to 12 units. 3 lectures. Prerequisite: Junior standing and current participation in the Washington Alexandria Architectural Consortium off-campus program.

ARCH 470 Selected Advanced Topics (1–4)
Directed group study of selected topics for advanced students. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1 to 4 lectures. Prerequisite: Consent of instructor.

ARCH 471 Selected Advanced Laboratory (1–4)
Directed group laboratory study of selected topics for advanced students. Open to undergraduate and graduate students. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1 to 4 laboratories. Prerequisite: Consent of instructor.

ARCH 472 Housing Concepts (3-4)
For students preparing for further study relating to housing, development density, and community design. Concepts of housing and community introduced in the context of multi bottom line development. Addresses housing design concepts and objectives; current theories in housing form; mixed-use projects; housing affordability; and fundamentals of economic development. 3-4 lectures. Prerequisite: Third-year standing or consent of instructor.

ARCH 477 Advanced Topics in Environmental Architecture (4)
Theory and application of methods used to address energy and ecological issues of integrated building and site design. The Schedule of Classes will list topic selected. Total credit limited to 12 units, repeatable in same term. 4 seminars. Prerequisite: ARCH 307.

ARCH 480 Special Studies in Architecture (1–12)
Special issues and problems through research, field trips, design projects, and other forms of investigation and involvement. Course requirements are determined prior to each individual project through a contractual agreement between students and department. The departmental Off-Campus Study Guidelines apply except when superseded by guidelines and practices of the London Study Program of the College of Liberal Arts. Total credit limited to 36 units. Prerequisite: Junior standing.

ARCH 481 Senior Architectural Design Project (5)
Comprehensive building design and research project in an architectural concentration area. Demonstration of professional competency in integration of architectural theory, principles and practice with creative, organizational and technical abilities in architectural programming, design and design research. Total credit limited to 15 units. 5 laboratories. Prerequisite: 5th-year standing or consent of department head.

ARCH 485 Cooperative Education Experience (4 or 8) (CR/NC)
Part-time work experience in business, industry, government, and other areas of student career interest. Positions are paid. Formal report and evaluation by work supervisor required. Major credit limited to 20 units; total credit limited to 24 units. Credit/No Credit grading only. Prerequisite: Sophomore standing and consent of instructor.

ARCH 486 Internship Education Experience (4 or 8) (CR/NC)
Part-time work experience in business, industry, government, and other areas of student career interest. Positions are unpaid and usually require relocation. Formal report and evaluation by work supervisor required. Major credit limited to 20 units; total credit limited to 24 units. Credit/No Credit grading only. Prerequisite: Sophomore standing and consent of instructor.

ARCH 492 Senior Design Thesis (3)
Development of the framework and format of a thesis project proposal related to the specific design option. Work to include: research topic, intent, scope, methodology, assumptions, outline of work program and documentation. To be
ARCH 495 Cooperative Education Experience (12) (CR/NC)
Full-time work experience in business, industry, government, and other areas of student career interest. Positions are paid. Formal report and evaluation by work supervisor required. Major credit limited to 20 units; total credit limited to 24 units. Credit/No Credit grading only. Prerequisite: Sophomore standing and consent of instructor.

ARCH 496 Internship Education Experience (12) (CR/NC)
Full-time work experience in business, industry, government, and other areas of student career interest. Positions are unpaid and usually require relocation. Formal report and evaluation by work supervisor required. Major credit limited to 20 units; total credit limited to 24 units. Credit/No Credit grading only. Prerequisite: Sophomore standing and consent of instructor.

ARCH 501 Environmental Control Systems (3)
Comparative analysis and evaluation of mechanical and electrical building systems in high-rise and special purpose low-rise buildings. 3 seminars. Prerequisite: ARCH 407.

ARCH 510, 511 Environmental Design Methods 1, 2 (3) (3)
Application of systematic, step-by-step procedures to rational and intuitive judgmental tasks. Methods for formulation, idea production, evaluation, and testing applied to planning, testing, design information systems, communication between designer and client, user participation in design, and other current topics. 511 focuses on specific problem area among topics and may be repeated up to 9 units. 3 lectures. Prerequisite: Graduate standing.

ARCH 513 Natural Architectural Lighting (3)
Perception and awareness of light; natural light as generator of urban spaces and building forms. Principles of design in lighting fundamentals and techniques. 3 lectures. Prerequisite: ARCH 407 or consent of instructor.

ARCH 519 Theory of Architecture (3)
Comparative analysis of the major historic influences which have contributed to the development of architectural design theories. The Schedule of Classes will list topic selected. Total credit limited to 9 units. 1 lecture, 2 seminars. Prerequisite: ARCH 319 or graduate standing.

ARCH 521 Graduate Architectural Design Project (5)
Comprehensive building design and research project in an architectural concentration area. Demonstration of professional competency in integration of architectural theory, principles and practice with creative, organizational and technical abilities in architectural programming, design and design research. Total credit limited to 15 units. 5 laboratories. Prerequisite: ARCH 407, ARCH 451, ARCH 452, ARCH 453 and 5th-year standing.

ARCH 531 Habilitability (3)
Habilitation standards and concepts significant for architectural design and practice. Behavioral analysis of habitats, facilities and urban systems. Design and development of structures and systems responsive to human needs. Habilitability and environmental specifications, human factors, human engineering, behavioral sciences. 3 seminars. Prerequisite: ARCH 303, ARCH 453, or consent of instructor.

ARCH 532 Quantitative Methods in Architecture (3)
Roles of research in environmental design analysis. Approaches to research, hypothesis testing, data banks, and information systems for design. Use of research findings in various decision-making systems. 3 seminars. Prerequisite: Graduate standing.

ARCH 533 Architectural Programming (3)
Information management in the design process. Techniques for gathering, analyzing, and transforming data for use as design information. Variety of approaches to pre-design planning. 3 seminars. Prerequisite: ARCH 453.

ARCH 537 Principles of Development (3)
Theory and application of the architect's role in real estate development. Topics include financing, corporate structuring, feasibilities, market studies, and proposal presentation. Emphasis on the influence of design on the success of the development process. 3 seminars. Prerequisite: Graduate standing in Architecture, or consent of instructor.

ARCH 551 Architectural Design (5)
Professional initiative and responsibility in integrating architectural design theory and practice with fields influencing the total environment. Building types considered as the coordinating factor. Total credit limited to 15 units with no more than 5 units in any one quarter. 5 laboratories. Prerequisite: Graduate standing.

ARCH 556 Advanced Design (3)
Continuation of ARCH 551. Advanced studies integrating architectural design theory and practice with fields influencing the shaping of the total environment. Total credit limited to 9 units. 3 laboratories. Prerequisite: Graduate standing.

ARCH 563 Professional Seminar (2)
Problems and topics in the field of the architectural profession. Seminar drawn upon expertise of visiting professionals in addition to topics presented by regular faculty and students. 2 seminars. Prerequisite: Graduate standing.

ARCH 570 Selected Advanced Topics (1–4)
Directed group study of selected topics for graduate students. Open to undergraduate and graduate students. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1–4 lectures. Prerequisite: Graduate standing or consent of instructor.

ARCH 580 Seminar in Theory of Architecture (3)
Directed group study of selected topics in the theory of architecture for graduate students. The Schedule of Classes will list topic selected. Total credit limited to 9 units. 3 seminars. Prerequisite: ARCH 453.

ARCH 592 Graduate Design Thesis (3)
Development of the framework and format of a thesis project proposal related to the specific design option. Work to include: research topic, intent, scope, methodology, assumptions, outline of work program and documentation. To be taken concurrently with first quarter of ARCH 521. 3 seminars. Prerequisite: 5th year standing or consent of instructor.

ARCH 598 Master's Design Project (3–6)
Completion of a master project demonstrating in-depth research ability at a graduate level. Total credit limited to 9 units. 3 or 6 laboratories. Prerequisite: Consent of graduate advisor.

ARCH 599 Master's Thesis (1–9)
Completion of a thesis embodying original research in an area of environmental design. Total credit limited to 9 units. Prerequisite: Consent of graduate advisor.