

# ARC - Architecture

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## Architecture: ARC

### Lower-Division Courses

#### ARC 001F. First-Year Interest Group Seminar.

Restricted to students in the First-Year Interest Group Program. Basic issues in various School of Architecture disciplines. One lecture hour a week for one semester.

#### ARC 308 (TCCN: ARCH 1311). Architecture and Society.

Introduction to the social contexts, potential, and consequences of architecture and interior design. Three lecture hours and one laboratory hour a week for one semester.

#### ARC 310K. Design I.

Same as Architectural Interior Design 310K. Restricted to students in the School of Architecture. An introduction to the forms and methods of design for architects and interior designers, with an emphasis on inhabitation including body, light, and movement. Taught in a studio format by faculty members under the direction of a faculty coordinator. Three lecture hours and six laboratory hours a week for one semester. Offered on the letter-grade basis only. Prerequisite: Registration for Architectural Interior Design 311K or Architecture 311K.

#### ARC 310L. Design II.

Same as Architectural Interior Design 310L. Restricted to students in the School of Architecture. An introduction to the forms and methods of design for architects and interior designers, with an emphasis on environment, including color, material, and texture. Taught in a studio format by faculty members under the direction of a faculty coordinator. Three lecture hours and six laboratory hours a week for one semester. Offered on the letter-grade basis only. Prerequisite: Architecture 310K and 311K or Architectural Interior Design 310K and 311K with a grade of at least C in each, and registration for Architecture 311L or Architectural Interior Design 311L.

#### ARC 311K. Visual Communication I.

Same as Architectural Interior Design 311K. Restricted to students in the School of Architecture. Study and application of drawing and other communication skills for designers, including formal and spatial studies, life drawing, and perspective. Three lecture hours and three laboratory hours a week for one semester. Prerequisite: Registration for Architectural Interior Design 310K or Architecture 310K.

#### ARC 311L. Visual Communication II.

Same as Architectural Interior Design 311L. Restricted to students in the School of Architecture. Study and application of drawing and other communication skills for designers, including color, light and shadow, and projections. Employs manual and digital techniques. Three lecture hours and three laboratory hours a week for one semester. Prerequisite: Architecture 310K and 311K or Architectural Interior Design 310K and 311K with a grade of at least C in each, and registration for Architecture 310L or Architectural Interior Design 310L.

#### ARC 312C. Appropriate Materials.

Examine the underlying material framework of the built environment through the study of buildings, products, and artworks that span time and place. Emphasis is placed on works of architecture. Three lecture hours a week for one semester. Architecture 312C and 327R (Topic: Appropriate Materials-WB) may not both be counted.

#### ARC 312R. Topics in Introductory Design Studies.

Three lecture hours a week for one semester. May be repeated for credit when the topics vary.

#### ARC 415K. Construction I.

Restricted to students in the School of Architecture. Introduction to building construction, materials, and structures. Three lecture hours and three laboratory hours a week for one semester. Prerequisite: The following coursework with a grade of at least C in each: Architectural Interior Design 310L and 311L, or Architecture 310L and 311L; and registration for Architectural Interior Design 320K or Architecture 321D (or 320D).

#### ARC 415L. Construction II.

Restricted to students in the School of Architecture. Analysis of building assemblies, envelope design, and structures. Three lecture hours and three laboratory hours a week for one semester. Prerequisite: Architecture 415K with a grade of at least C; Mathematics 408C or 408K; and Physics 302K and 102M, or 303K and 103M.

#### ARC 318K (TCCN: ARCH 1301). World Architecture: Origins to 1750.

Comparative study of the architecture of the ancient world, including Asia, Africa, the Americas, and Europe. Three lecture hours and one laboratory hour a week for one semester. Prerequisite: For students in the School of Architecture, Architecture 308 with a grade of at least C.

#### ARC 318L (TCCN: ARCH 1302). World Architecture: The Industrial Revolution to the Present.

Three lecture hours a week for one semester. Prerequisite: For students in the School of Architecture, Architecture 318K with a grade of at least C; for others, twelve semester hours of college coursework is recommended.

#### ARC 119S, 219S, 319S, 419S, 519S, 619S, 719S, 819S, 919S. Topics in Architecture.

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University's Study Abroad Office. Credit is recorded as assigned by the academic advising coordinator in the School of Architecture. University credit is awarded for work in an exchange program; it may be counted as coursework taken in residence. Transfer credit is awarded for work in an affiliated studies program. May not be counted toward a degree in the School of Architecture. May be repeated for credit when the topics vary.

### Upper-Division Courses

#### ARC 521G. Design VI Intermediate.

Restricted to students in the School of Architecture. Intermediate-level studio emphasizing theory, *raison-d'etre*, program, and overlaps with other disciplines. Fifteen studio hours a week for one semester. Only one of the following may be counted: Architecture 520G, 521G, 530T. Prerequisite: Architecture 521F, 334K, and 435K, with a grade of at least C in each; and consent of the department.

#### ARC 221K. Visual Communication III.

Same as Architectural Interior Design 221K. Restricted to students in the School of Architecture. Introduction to digital modeling as well as principles of digital fabrication. Includes various modes of output such as drawings, renderings, and physical models. Three lecture hours and three laboratory hours a week for one semester. Prerequisite: The following coursework with a grade of at least C in each: Architectural Interior Design 310L and 311L, or Architecture 310L and 311L; and registration for Architectural Interior Design 320K or Architecture 320D (or 320K).

### **ARC 323D. Design III Intermediate Studio.**

Restricted to students in the School of Architecture. Explore tectonic expression through structural systems, construction methods and materiality, and spatial and formal composition at the scale of a building. Nine studio hours a week for one semester. Architecture 321D and 323D may not both be counted. Prerequisite: Architecture 310L and 311L with a grade of at least C.

### **ARC 523E. Design IV Intermediate Studio.**

Restricted to students in the School of Architecture. Examine the relationship of city and nature, urban issues, housing, landscape, and spatial and formal composition at the scale of the city in a studio setting. Twelve studio hours a week for one semester. Architecture 521E and 523E may not both be counted. Prerequisite: Architecture 323D (or 321D), Architecture 221K, and Architecture 415K with a grade of at least a C.

### **ARC 523F. Design V Intermediate Studio.**

Restricted to students in the School of Architecture. Examine theory, *raison-d'être*, program, spatial and formal composition, and overlaps with other disciplines in a studio setting. Twelve studio hours a week for one semester. Architecture 521F and 523F may not both be counted. Prerequisite: Architecture 523E (or 521E), Architecture 415L, and Architecture 333 with a grade of at least a C.

### **ARC 326R. Topics in Design and Practice.**

Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Upper-division standing.

**Topic 1: Twenty-Second-Century Materials.** Architecture 326R (Topic 1) and 327R (Topic: Appropriate Materials) may not both be counted.

### **ARC 327C. Urban Design History, Theory, and Criticism.**

Study of critical theories and practices that affect the built environment. Three lecture hours a week for one semester. Architecture 327C and 350R (Topic: Urban Design History/Theory/Criticism) may not both be counted. Prerequisite: For students in the School of Architecture, upper-division standing; for others, upper-division standing and consent of instructor.

### **ARC 327E. Alternative Real Estate Action.**

Intersects theory and practice by performing design-build, community service/community engagement as a form of alternative real estate development. Three lecture hours a week for one semester. Architecture 327E and 350R (Topic: Alternative Real Estate Action) may not both be counted. Prerequisite: Upper-division standing.

### **ARC 327F. American Dream: Status Quo and Alternatives.**

Three lecture hours a week for one semester. Architecture 327F and Urban Studies 352 (Topic 2) may not both be counted.

### **ARC 327G. Regenerative Architecture.**

Three lecture hours a week for one semester. Architecture 327G and 350R (Topic: Regenerative Architecture) may not both be counted. Prerequisite: Upper-division standing.

### **ARC 327J. Theory of Architecture I.**

Three lecture hours a week for one semester. Architecture 327J and 350R (Topic: Theory of Architecture I) may not both be counted. Prerequisite: Upper-division standing.

### **ARC 327P. Productions.**

Same as Architectural Interior Design 327P. Designed to explore the relationships between the generation of form, space, experience, and atmosphere in the spatial practices of interior design, architecture, and art. Three lecture hours a week for one semester. Only one of the

following may be counted: Architecture 327P, 350R (Topic: Productions), Architectural Interior Design 327P. Prerequisite: For students in the School of Architecture, upper-division standing; for others, upper-division standing and consent of instructor.

### **ARC 327R. Topics in Architectural Theory.**

Advanced topics in architecture and associated disciplines to encourage critical and theoretical thinking. Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Upper-division standing.

**Topic 1: Architectural Criticism.** Architecture 327R (Topic 1) and 350R (Topic: Architectural Criticism) may not both be counted.

**Topic 2: Architectural Photography.** Architecture 327R (Topic 2) and 350R (Topic: Architectural Photography) may not both be counted.

**Topic 3: City as Form and Idea.** Architecture 327R (Topic 3) and 350R (Topic: City as Form and Idea) may not both be counted.

**Topic 4: Community Design Engagement.** Architecture 327R (Topic 4) and 350R (Topic: Community Design Engagement) may not both be counted.

**Topic 5: Design Firm Leadership.** Architecture 327R (Topic 5) and 350R (Topic: Design Firm Leadership) may not both be counted.

**Topic 6: Design of New Communities.** Architecture 327R (Topic 6) and 350R (Topic: Design of New Communities) may not both be counted.

**Topic 7: Design Process.** Architecture 327R (Topic 7) and 350R (Topic: Design Process) may not both be counted.

**Topic 8: Designing the Way We Build.** Architecture 327R (Topic 8) and 350R (Topic: Designing the Way We Build) may not both be counted.

**Topic 9: Eileen Gray and E. 1027.** Architecture 327 (Topic 9) and 350R (Topic: Eileen Gray and E.1027) may not both be counted.

**Topic 10: Energy Modeling and The Design Process.** Architecture 327R (Topic 10) and 350R (Topic: Energy Modeling & Design Proc) may not both be counted.

**Topic 11: Global Housing Challenge.** Architecture 327R (Topic 11) and 350R (Topic: Global Housing Challenge) may not both be counted.

**Topic 12: Light and Sustainable Design.** Architecture 327R (Topic 12) and 350R (Topic: Light and Sustainable Design) may not both be counted.

**Topic 13: Managing the Design Project.** Architecture 327 (Topic 13) and 350R (Topic: Managing the Design Project) may not both be counted.

**Topic 14: Place and Historical Imagination.** Architecture 327R (Topic 14) and 350R (Topic: Place & Historical Imagination) may not both be counted.

**Topic 15: Poetics of Building.** Architecture 327R (Topic 15) and 350R (Topic: Poetics of Building) may not both be counted.

**Topic 16: Smart, Green, and Just.** Architecture 327R (Topic 16) and 350R (Topic: Smart, Green, and Just) may not both be counted.

**Topic 17: Solar Geometry/Energy Flow in Building.** Architecture 327R (Topic 17) and 350R (Topic: Solar Geom/Energy Flow in Bldg) may not both be counted.

**Topic 18: Timber Technologies.** Architecture 327R (Topic 18) and 350R (Topic: Timber Technologies) may not both be counted.

**Topic 19: Urban Land Institute Workshop.** Architecture 327R (Topic 19) and 350R (Topic: Urban Land Institute Workshop) may not both be counted.

**Topic 20: Introduction to Urban Ecology.**

**Topic 21: Urban Agricultural Systems.**

**Topic 23: Computational Design.** Explore the theory and application of computational design. Use of software programs to develop experimental projects that uncover new tactics for the design of buildings and objects. Projects will be evaluated on their spatial and experiential potential and attention to digital craft. Architecture 327R (Topic: Computational Design) and 327R (Topic 23) may not both be counted.

**Topic 24: Race and Gender by Design.** Examine the relationship of design relative to the narratives of race, gender, and diversity. Architecture 327R (Topic: Race and Gender by Design) and 327R (Topic 24) may not both be counted.

**Topic 25: Architecture Computation.**

**Topic 26: Composition and Architecture.** Architecture 327R (Topic: Composition and Architecture) and 327R (Topic 26) may not both be counted

**Topic 27: Sustainable Architectural Design.** Architecture 327R (Topic: Sustainable Arc Design) and 327R (Topic 27) may not both be counted.

**Topic 28: Sustainability: Why This Way.** Architecture 327R (Topic: Sustainability: Why this Way) and 327R (Topic 28) may not both be counted Additional prerequisite: Consent of instructor.

**Topic 29: Architectural Interrogations.** Architecture 327R (Topic: Two Hundred Words) and 327R (Topic 29) may not both be counted.

**Topic 30: Building Matters.** Architecture 327R (Topic: Building Matters) and 327R (Topic 30) may not both be counted.

**Topic 31: Spatial Stories.** Architecture 327R (Topic: Spatial Stories) and 327R (Topic 31) may not both be counted.

### **ARC 327U. Technology/Technique Sustainable Design.**

Three lecture hours a week per semester. Architecture 327U and 350R (Topic: Technol/Techniq Sustn Dsgn-Ger) may not both be counted. Prerequisite: Upper-division standing.

### **ARC 328D. Advanced Drawing.**

Focus on personal design methodology by exploring multiple drawing methods, skills and approaches including manual, digital, and hybrid techniques. Refines design communication skills by pairing clearly articulated design intention with compelling drawings, and expressing them via effective verbal presentations. Three lecture hours or six laboratory hours a week for one semester. Architecture 328D and 351R (Topic: Advanced Drawing: Draw Blood) may not both be counted. Prerequisite: Upper-division standing and Architecture 523E with a grade of at least C, or consent of instructor.

### **ARC 328F. Digital Drawing and Fabrication.**

Focus on advanced visual communication methodologies necessary for architectural generation, translation, and output. The equivalent of three lecture hours a week for one semester. Architecture 328F and 351R (Topic: Digital Drawing and Fabrication) may not both be counted. Prerequisite: Architecture 520L with a grade of at least C, or consent of instructor.

### **ARC 328G. Design Logics: Projection and Proportion in Architecture.**

Three lecture hours a week for one semester. Architecture 328G and 351R (Topic: Dsgn Logics: Proj/Prop Arch) may not both be counted. Prerequisite: Upper-division standing.

### **ARC 328P. Prototype.**

Same as Architectural Interior Design 328P. Focus on digital fabrication as a link between architecture and product design. The equivalent of three lecture hours a week for one semester. Only one of the following may be counted: Architecture 328P, 351R (Topic: Prototype), Architectural Interior Design 328P. Offered on the letter-grade basis only. Prerequisite: Upper-division standing and Architecture 520L with a grade of at least C, or consent of instructor.

### **ARC 328Q. Rendering and Animation for the Built Environment.**

Same as Landscape Architecture 341R (Topic 1). Digital visualization techniques used to model three dimensional environments and motion with digital media. Includes lectures, software demonstrations, and

projects that focus on the digital translation of spatial experience, as well as the visualization techniques associated with rendering texture, character, and environment. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 328Q, 328V, 351R (Topic: Visualization and Digital Representation in Design), Landscape Architecture 341R (Topic 1). Prerequisite: For students in the School of Architecture: upper-division standing and Architecture 521E with a grade of at least C, or consent of instructor; for others, upper-division standing or consent of instructor.

### **ARC 328R. Topics in Visualization and Fabrication.**

Advanced topics in various methods of visual communication. The equivalent of three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Architecture 520E or 520G with a grade of at least C, or consent of instructor.

#### **Topic 1: Building Information Modeling and Representation.**

Architecture 327R (Topic: BIM Model/Represent) and 328R (Topic 1) may not both be counted.

### **ARC 328S, 428S. Global Visual Communication.**

For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit. Prerequisite: Upper-division standing.

### **ARC 328W. Wood Design.**

Practice on basic woodworking skills: tool sharpening, layout, millwork, joinery, gluing, sanding, and finishing. The equivalent of three lecture hours a week for one semester. Architecture 328W and 351R (Topic 11) may not both be counted. Prerequisite: Upper-division standing and Architecture 520L with a grade of at least C, or consent of instructor.

### **ARC 129S, 229S, 329S, 429S, 529S, 629S, 729S, 829S, 929S. Topics in Architecture.**

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University's Study Abroad Office. Credit is recorded as assigned by the academic advising coordinator in the School of Architecture. University credit is awarded for work in an exchange program; it may be counted as coursework taken in residence. Transfer credit is awarded for work in an affiliated studies program. May not be counted toward a degree in the School of Architecture. May be repeated for credit when the topics vary.

### **ARC 333. Site Design.**

Restricted to students in the School of Architecture. History, theory, and technique of landscape design, with emphasis on the relationship of a building to its landscape. Three lecture hours a week for one semester. Prerequisite: Upper-division standing.

### **ARC 334K. Environmental Controls I.**

Same as Architectural Interior Design 324K. Restricted to students in the School of Architecture. A survey of acoustics, color, light, illumination, and electrical and information systems in architectural interiors. Includes techniques of documentation. Three lecture hours and three laboratory hours a week for one semester. Architectural Interior Design 324K and Architecture 334K may not both be counted. Prerequisite: Architectural Interior Design 520L or Architecture 521E (or 520E) or 521G (or 520G) with a grade of at least C.

### **ARC 334L. Environmental Controls II.**

Restricted to students in the School of Architecture. A survey of heating, ventilating, air conditioning, vertical transportation, and wiring and plumbing systems in buildings, including techniques of documentation. Three lecture hours and one laboratory hour a week for one semester.



Prerequisite: Architecture 334K or Architectural Interior Design 324K with a grade of at least C.

### **ARC 435R. Structures I.**

Restricted to students in the School of Architecture. Examine theories of building construction and materials. Explore the analysis and design of structural components. Three lecture hours and three laboratory hours a week for one semester. Architecture 435K and 435R may not both be counted. Prerequisite: Upper-division standing; Architecture 415L with a grade of at least C; Mathematics 408C or 408L; and Physics 302L and 102N, or 303L and 103N.

### **ARC 435S. Structures II.**

Restricted to students in the School of Architecture. Continue to examine theories of building behavior and materials. Explore the analysis and design of structural systems. Three lecture hours and three laboratory hours a week for one semester. Architecture 435L and 435S may not both be counted. Prerequisite: Upper-division standing and Architecture 435R with a grade of at least C.

### **ARC 335T. Architectural Details and Materials.**

Analyze building envelope, assemblies, detailing, and specifications. Three lecture hours a week for one semester. Architecture 335M and 335T may not both be counted. Prerequisite: Architecture 435S with a grade of at least a C.

### **ARC 342C. Mexican Architecture and Urbanism: From Pre-Columbian to Contemporary.**

A survey of Mexican architecture and urbanism from its origins in pre-Columbian times to the twenty-first century. Evaluation of architecture as a cultural production intricately connected to its artistic and historical context and the landscape that supports it. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 342C, 368R (Topic: Mexican Architectural History), 368R (Topic: Mexican Architecture-UT/Mex). Prerequisite: For students in the School of Architecture, Architecture 318L with a grade of at least C; for students in art history, Latin American studies, Mexican American studies, and urban studies, upper-division standing; for all others, consent of instructor.

### **ARC 342E. History and Theories of Landscape Architecture I.**

Same as Landscape Architecture 342K. Overview and chronological series of in-depth studies in the history of major garden cultures and designed landscapes of the Western and Eastern worlds. Introduction to methodological approaches to the formal, social, and cultural history of gardens and landscapes, as well as to relevant theoretical frameworks for interpreting these designed landscapes and for use in conceptualizing landscapes, architecture, and urban projects in studio design. Three lecture hours a week for one semester. Only one of the following may be counted: Landscape Architecture 342K, Architecture 342E, 368R (Topic: History and Theories of Landscape Architecture I) Prerequisite: Upper-division standing; for students in the School of Architecture, Architecture 318L with a grade of at least C; for others, consent of instructor.

### **ARC 342F. History and Theories of Landscape Architecture II.**

Same as Landscape Architecture 342L. Continuation of Landscape Architecture 342K (and Architecture 342D) through the modern period to contemporary times. Formal and cultural history of gardens, parks, and public landscapes from 1700 to about 1990. Includes comparative material from the contemporary period, 1980 to 2010. Three lecture hours a week for one semester. Only one of the following may be counted: Landscape Architecture 342L; Architecture 342F or 368R (Topic: History and Theories of Landscape Architecture II). Prerequisite: Upper-division standing; for students in the School of Architecture,

Architecture 318L with a grade of at least C; for others, consent of instructor.

### **ARC 342R. Topics in the History of Architecture.**

Seminars and lecture/seminars on advanced topics in the history of architecture. Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: For students in the School of Architecture, Architecture 318L with a grade of at least C and upper-division standing; for others, upper-division standing.

**Topic 1: Twentieth-Century Latin American Architecture.** Architecture 342R (Topic 1) and 368R (Topic: 20th-Cen Latin American Arch) may not both be counted.

**Topic 2: American Architecture.** Architecture 342R (Topic 2) and 368R (Topic: American Architecture) may not both be counted.

**Topic 3: Brazilian Urban.** Architecture 342R (Topic 3) and 368R (Topic: Brazilian Urban Theory) may not both be counted.

**Topic 4: Central European Architecture, 1648-Present.** Architecture 342R (Topic 4) and 368R (Topic: Central European Architecture 1648-Present) may not both be counted.

**Topic 5: German Modernism.** Architecture 342R (Topic 5) and 368R (Topic: German Modernism) may not both be counted.

**Topic 6: History of Architecture Since 1985.** Architecture 342R (Topic 6) and 368R (Topic: History of Architecture since 1985) may not both be counted.

**Topic 7: History of Building Technology.** Architecture 342R (Topic 7) and 368R (Topic: History of Building Technology) may not both be counted.

**Topic 8: Hybridity in Landscape/Architecture.** Architecture 342R (Topic 8) and 368R (Topic: Hybridity in Landscape Architecture) may not both be counted.

**Topic 9: Loos and Mies.** Architecture 342R (Topic 9) and 368R (Topic: Loos and Mies) may not both be counted.

**Topic 10: Modern American Design.** Architecture 342R (Topic 10) and 368R (Topic: Modern American Design) may not both be counted.

**Topic 11: Modern Landscape Architecture 1900-1970.** Architecture 342R (Topic 11) and 368R (Topic: Modern Landscape Architecture 1900-1970) may not both be counted.

**Topic 12: Rome's Gardens and Landscapes.** Same as Landscape Architecture 342R (Topic 1). Only one of the following may be counted: Landscape Architecture 342R (Topic 1); Architecture 342R (Topic 12), 368R (Topic: Italian Villa and Garden)

**Topic 13: History of Architectural Theory.** Architecture 342R (Topic 13) and 368R (Topic: History of Architectural Theory) may not both be counted.

**Topic 14: Professional Design Practice: Baroque Rome.** Same as Landscape Architecture 342R (Topic 2). Explore an overview of the synthetic act of design and a strong interdisciplinary grounding in one of the key historical periods of design and in advanced research methods. Only one of the following may be counted: Landscape Architecture 342R (Topic 2), Architecture 342R (Topic 14) or Architecture 368R (Topic: Prof Dsgn Prac: Baroque Rome).

**Topic 15: African American Experience in Architecture.** Architecture 342R (Topic: Afr Amer Experience in Arch) and 342R (Topic 15) may not both be counted.

**Topic 16: History of American City Building.** Architecture 342R (Topic: Hist of Amer City Building) and 342R (Topic 16) may not both be counted.

**Topic 17: Representing Landscape and Architecture, 1500-Present.** Same as Landscape Architecture 342R (Topic 5). Explore the roles of visual representation in design and professional practice from Leonardo da Vinci to the digital age. Review the history of techniques, media, and conventions of representation in architecture and landscape architecture and in their intersections. Three lecture hours a week for one semester. Only one of the following may be counted:

Landscape Architecture 342R (Topic 3), 342R (Topic 5); Architecture 342K, 342R (Topic 17), 368R (Topic: Reprnt Lndscp Arch, 1500-2015). Additional prerequisite: For students in the School of Architecture, Architecture 318L with a grade of at least C and upper-division standing; for others, upper-division standing.

### **ARC 342S. Modern European Architecture.**

Three lecture hours a week for one semester Architecture 342S and 368R (Topic: Modern European Arch-Europe) may not both be counted. Prerequisite: Upper-division standing.

### **ARC 342T. Advanced Architecture History.**

Three lecture hours a week for one semester. Architecture 342T and ARC 368R (Topic: Advanced Architecture History-ITA) may not both be counted. Prerequisite: Upper-division standing.

### **ARC 342U. Modern History of Sustainable Architecture.**

Three lecture hours a week for one semester Architecture 342U and 368R (Topic: Mod Hist of Sustainbl Arch-Ger) may not both be counted. Prerequisite: Upper-division standing.

### **ARC 350R. Topics in Design Theory.**

Advanced topics in architecture and associated disciplines to encourage critical and theoretical thinking. Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: For students in the School of Architecture, upper-division standing; for others, upper-division standing and consent of instructor; additional prerequisites may vary with the topic.

**Topic 1: The Modern American City.** Same as Geography 337 and Urban Studies 337. Issues facing residents of United States cities, such as transportation and housing, poverty and crime, metropolitan finance, environmental and architectural design; historical/comparative urban evolution. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 350R (Topic 1), Geography 337, Urban Studies 337, 352 (Topic 1). Additional prerequisite: For students in the School of Architecture, upper-division standing; for others, upper-division standing and consent of instructor.

**Topic 3: Urban Design Practice.** Architecture 350R (Topic 3) and Urban Studies 352 (Topic 3) may not both be counted.

**Topic 4: Economy/Value/Quality of Life.** Architecture 350R (Topic 4) and Urban Studies 352 (Topic 4) may not both be counted.

### **ARC 351R. Topics in Visual Communication.**

Advanced topics in various methods of visual communication. Three lecture hours or six laboratory hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Architecture 520L with a grade of at least C, or consent of instructor.

**Topic 1: Computer Applications in Design.** Six studio hours a week for one semester.

**Topic 2: Introduction to Computer Applications.** Six studio hours a week for one semester.

**Topic 4: Composition, Presentation, and Portfolio.** Three lecture hours a week for one semester.

**Topic 5: Descriptive Geometry.** Three lecture hours a week for one semester.

**Topic 6: Drawing Clinic.** Three lecture hours a week for one semester.

**Topic 7: Introduction to Computer Imaging.** Three lecture hours a week for one semester.

**Topic 8: Seeing Things: General Drawing.** Three lecture hours a week for one semester.

**Topic 9: Solid Geometry Drawing.** Three lecture hours a week for one semester.

**Topic 10: Visual Communication Exercises.** Three lecture hours a week for one semester.

### **ARC 561C. Comprehensive Studio.**

Restricted to students in the School of Architecture. Comprehensive studio to develop the ability to combine the elements of a thorough building design. Twelve studio hours a week for one semester. Only one of the following may be counted: Architecture 560T, 660T, or 561C. Prerequisite: Architecture 523F (or 521E or 520E) with a grade of at least C; and satisfactory completion of Portfolio Review.

### **ARC 561R, 661R. Topics in Advanced Design.**

Restricted to students in the School of Architecture. Advanced problems in architectural design. For 561R, ten studio hours a week for one semester; for 661R, fifteen studio hours a week for one semester. May be repeated for credit when the topics vary. Offered on the letter-grade basis only. Prerequisite: Architecture 521E (or 520E) with a grade of at least C; Architecture 521G (or 520G) with a grade of at least C; and satisfactory completion of third-year portfolio review.

### **ARC 361S. Professional Residency Program Internship.**

Restricted to students participating in the School of Architecture Professional Residency Program. Three lecture hours a week for one semester. Architecture 327R (Topic: PROF RESIDENCY INTERN-PRP) and 361S may not both be counted. May be repeated for credit. Offered on the pass/fail basis only. Prerequisite: Upper-division Standing.

### **ARC 361T. Technical Communication.**

Restricted to students in the School of Architecture. Produce construction documents. Six studio hours a week for one semester. Prerequisite: Architecture 521E (or 520E) with a grade of at least C; Architecture 521G (or 520G) with a grade of at least C; and satisfactory completion of third-year portfolio review.

### **ARC 362. Professional Practice.**

Restricted to students in the School of Architecture. Ethical, legal, and administrative responsibilities of the architect; organizations, processes, and roles in architecture. Three lecture hours a week for one semester. Prerequisite: One of the following with a grade of at least C: Architecture 561R, 561C, or 560T.

### **ARC 368R. Topics in the History of Architecture.**

Seminars and lecture/seminars on advanced topics in the history of architecture. Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: For students in the School of Architecture, Architecture 318L with a grade of at least C; for others, consent of instructor.

### **ARC 369J. City Architecture.**

Same as Urban Studies 335F. Introduction to city architecture, urban design, and planning. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 369J, Community Regional Planning 369K, Urban Studies 328C, 335F, 352 (Topic 6). Prerequisite: For students in the School of Architecture: Architecture 333 with a grade of at least C and upper-division standing; for others, upper-division standing.

### **ARC 170V, 370V. Topics in Digital Technology and Fabrication.**

For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Upper-division standing.

### **ARC 170W, 370W. Topics in Disaster Recovery.**

For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Upper division standing

### **ARC 378R. Bachelor Design Study, Part I.**

Restricted to advanced design-level Bachelor of Architecture students. Independent research, planning, and prep course that must be followed by Architecture 578S. Three lecture hours a week for one semester. Offered on the letter-grade basis only. Prerequisite: Upper-division standing; must have passed Portfolio Review; GPA of at least 3.5; and an approved Bachelor Design Study (BDS) proposal.

### **ARC 578S. Bachelor Design Study, Part II.**

Restricted to advanced design-level Bachelor of Architecture students. An independent studio that follows Architecture 378R. Five lecture hours a week for one semester. Offered on the letter-grade basis only. Prerequisite: Upper-division standing; must have passed Portfolio Review; a GPA of at least 3.5; a grade of at least C in Architecture 378R; and an approved Bachelor Design Study (BDS) proposal.

### **ARC 279, 379, 479, 579. Architectural Research.**

Investigation of problems selected by the student. For each semester hour of credit earned, the equivalent of one lecture hour a week for one semester. Prerequisite: Consent of instructor and an approved architectural research proposal.

## **Graduate Courses**

### **ARC 380C. Topics in Visualization and Fabrication.**

Advanced topics in visualization and fabrication in such media as freehand drawing, modeling, photography, computer graphics, photogrammetry, and measured drawings. Five laboratory hours a week for one semester. Architecture 380C and 381R may not both be counted. May be repeated for credit when the topics vary. Prerequisite: Graduate standing and consent of the graduate adviser.

**Topic 1: Living Wall: Design and Fabrication.** Architecture 380C (Topic 1) and 386M (Topic: Living Wall: Dsgn/Fabrication) may not both be counted.

**Topic 2: Reality Capture for Architecture.** Only one of the following may be counted: Architecture 380C (Topic: Reality Capture for Arch), 380C (Topic 2), Urban Design (U D) 380C (Topic 2).

**Topic 3: Material Info: Design through Fabrication.**

**Topic 4: Building Information Modeling and Representation.**

Architecture 380C (Topic 4) and 386M (Topic: BIM Model/Represent) may not both be counted.

### **ARC 380D. Topics in Design and Practice.**

Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing and consent of the graduate adviser.

**Topic 1: Twenty-Second-Century Materials.** Architecture 386M (Topic: Appropriate Materials) and 380D (Topic 1) may not both be counted.

### **ARC 180R. Proseminar in Architecture.**

Study of theories related to design, livability, and sustainability in the built environment. Includes collaboration with other students and research. One lecture hour a week for one semester. May be repeated for credit. Prerequisite: Graduate standing and admission to the Master of Architecture (postprofessional) degree program.

### **ARC 180V, 380V. Topics in Digital Technology and Fabrication.**

For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing.

**Topic 1: Creative Robotics.** Architecture 380V (Topic: Creative Robots) and 380V (Topic 1) may not both be counted.

### **ARC 180W, 380W. Topics in Disaster Recovery.**

For each semester hour of credit earned, one lecture hour a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing.

### **ARC 381D. Architectural Drawing.**

Visual communication in media, such as freehand drawing, modeling, photography, and measured drawings. Five laboratory hours a week for one semester. Architecture 381D and 386M (Topic: Architectural Drawing) may not both be counted. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 381F. Digital Drawing and Fabrication.**

Focus on advanced visual communication methodologies necessary for architectural generation, translation, and output. Five laboratory hours a week for one semester. Architecture 381F and 381R (Topic: Digital Drawing and Fabrication) may not both be counted. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 381T. Technical Communication.**

Studio to provide skills in producing construction documents as they relate to the design and building process. Six laboratory hours a week for one semester. Prerequisite: Graduate standing, Architecture 694, and consent of the graduate adviser.

### **ARC 381W. Visual Communication Workshop.**

Introductory workshop with a focus on developing graphic and basic design skills for the purpose of describing and communicating architectural ideas and form. Exposure to a diverse range of approaches involving freehand drawing, architectural graphic conventions, three-dimensional modeling of ideas, and an introduction to the design process. Five laboratory hours a week for one semester. Architecture 381R (Topic: Visual Communication Workshop) and 381W may not both be counted. Offered on the credit/no credit basis only. Prerequisite: Graduate standing.

### **ARC 382. Professional Practice.**

Ethical, legal, economic, and administrative processes and responsibilities of the practitioner in architecture and allied fields. Topics may include preservation law, community development, participatory design, and other aspects of organizations; methods and roles in design, planning, and preservation of the built environment. Three lecture hours a week for one semester. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 382P. Professional Residency Program Internship Portfolio.**

Restricted to students participating in the Professional Residency Program. Under the supervision of a faculty member, students produce a portfolio based on the Professional Residency Program experience. The equivalent of three lecture hours a week for one semester. Prerequisite: Graduate standing and consent of the graduate adviser.



### **ARC 382R. Professional Residency Program Internship Paper.**

Restricted to students participating in the Professional Residency Program. Under the supervision of a faculty member, students produce a research paper based on the Professional Residency Program experience. The equivalent of three lecture hours a week for one semester. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 383S. Site Design.**

Fundamentals of building and landscape relationships. Three lecture hours a week for one semester. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 383T. Topics in Site, Landscape, and Urban Studies.**

Topics in the history, design, and preservation of building sites, landscapes, and rural and urban communities. Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 384F. Environmental Control: Heat, Air, and Water.**

Examine thermal comfort, heating, cooling, ventilation, plumbing systems, fire protection, and conveying equipment in buildings. Three lecture hours and one laboratory hour a week for one semester. Only one of the following may be counted: Architecture 384F, 384L, Architectural Interior Design 384F, and 384K. Prerequisite: Graduate standing and consent of the graduate advisor.

### **ARC 384G. Environmental Control: Light, Sound, and Electricity.**

Examine light and color fundamentals, daylighting, artificial illumination, acoustics, and electrical and information systems for buildings. Three lecture hours and one laboratory hour a week for one semester. Only one of the following may be counted: Architecture 384K, 384G, Architectural Interior Design 384L, 384G. Prerequisite: Graduate standing and consent of the graduate advisor.

### **ARC 384T. Topics in Building and Environment Studies.**

Topics include daylighting and the history of building technology. Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 385Q. Construction.**

Introduction to building construction, materials, and structures. Analyze building assemblies and envelope design. Three lecture hours and three laboratory hours a week for one semester. Architecture 385K and 385Q may not both be counted. Prerequisite: Graduate standing and consent of the graduate advisor.

### **ARC 385R. Structures I.**

Examine theories of building construction and materials. Explore the analysis and design of structural components. Three lecture hours and three laboratory hours a week for one semester. Architecture 385R and 385T (Topic: Structures I) may not both be counted. Prerequisite: Graduate standing, Architecture 385Q with a grade of at least C, and consent of the graduate advisor.

### **ARC 385S. Structures II.**

Continue to examine theories of building behavior and materials. Explore the analysis and design of structural systems. Three lecture hours and three laboratory hours a week for one semester. Architecture 385S and 385T (Topic: Structures II) may not both be counted. Prerequisite:

Graduate standing, Architecture 385R with a grade of at least C, and consent of the graduate adviser.

### **ARC 385T. Topics in Building Construction and Conservation.**

Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing and consent of the graduate adviser.

**Topic 1: Architectural Conservation: Field Methods.** Architecture 385T (Topic: Materials Conserv. Field Meths) and 385T (Topic 1) may not both be counted. Additional prerequisite: Architecture 385T (Topic 2) and 385Q with a grade of at least C-, or consent of instructor.

**Topic 2: Architectural Conservation: Lab Methods.** Architecture 385T (Topic: Materials Conserv. Lab Methds) and 385T (Topic 2) may not both be counted.

### **ARC 386C. Architectural Theory: Contemporary Issues.**

Restricted to students in the architecture or architectural studies program. Examine how architectural theory has shaped, and been shaped by, architectural practice in the 20th and 21st centuries, with an emphasis on architecture of the after-Modern. Three lecture hours a week for one semester. Architecture 386M (Topic: Arch Thry: Contemp Issues) and 386C may not both be counted. Prerequisite: Graduate standing and consent of the graduate advisor.

### **ARC 386D. Architectural Theory: Historical Overview.**

Restricted to students in the architecture or architectural studies program. Survey architectural theories since the Renaissance. Three lecture hours a week for one semester. Architecture 386D and 386M (Topic: Arch Thry: Historical Overview) may not both be counted. Prerequisite: Graduate standing and consent of the graduate advisor.

### **ARC 386M. Topics in Architectural Theory.**

Study of critical theories and practices that affect the built environment. Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing and consent of the graduate adviser.

**Topic 2: Architectural Criticism.** Architecture 386M (Topic: Architectural Criticism) and 386M (Topic 2) may not both be counted.

**Topic 3: Architectural Photography.** Architecture 386M (Topic: Architectural Photography) and 386M (Topic 3) may not both be counted.

**Topic 4: City as Form and Idea.** Only one of the following may be counted: Architecture 386M (Topic 4), 386M (Topic: City as Form and Idea), 388R (Topic: City as Form and Idea).

**Topic 5: Community Design Engagement.** Architecture 386M (Topic: Community Design Engagement) and 386M (Topic 5) may not both be counted.

**Topic 6: Design Firm Leadership.** Architecture 386M (Topic: Design Firm Leadership) and 386M (Topic 6) may not both be counted.

**Topic 7: Design of New Communities.** Only one of the following may be counted: Architecture 386M (Topic 7), Urban Design (U D) 388R (Topic 2), Urban Design (UDN) 388R (Topic 2).

**Topic 8: Design Process.** Architecture 386M (Topic: Design Process) and 386M (Topic 8) may not both be counted.

**Topic 9: Designing the Way We Build.** Architecture 386M (Topic: Designing the Way We Build) and 386M (Topic 9) may not both be counted.

**Topic 10: Eileen Gray and E.1027.** Architecture 386M (Topic: Eileen Gray and E.1027) and 386M (Topic 10) may not both be counted.

**Topic 11: Energy Modeling and the Design Process.** Architecture 386M (Topic: Energy Modeling & Design Proc) and 386M (Topic 11) may not both be counted.

**Topic 12: Global Housing Challenge.** Architecture 386M (Topic: Global Housing Challenge) and 386M (Topic 12) may not both be counted.

**Topic 13: Light and Sustainable Design.** Architecture 386M (Topic: Light and Sustainable Design) and 386M (Topic 13) may not both be counted.

**Topic 14: Managing the Design Project.** Architecture 386M (Topic: Managing the Design Project) and 386M (Topic 14) may not both be counted.

**Topic 15: Place and Historical Imagination.** Architecture 386M (Topic: Place & Historical Imagination) and 386M (Topic 15) may not both be counted.

**Topic 16: Poetics of Building.** Architecture 386M (Topic: Poetics of Building) and 386M (Topic 16) may not both be counted.

**Topic 17: Advanced Theories of Architecture.** Architecture 386M (Topic: Advanced Theories of Architecture) and 386M (Topic 17) may not both be counted.

**Topic 18: Smart, Green and Just.** Architecture 386M (Topic: Smart, Green, and Just) and 386M (Topic 18) may not both be counted.

**Topic 19: Solar Geometry and Energy Flow.** Architecture 386M (Topic: Solar Geom/Energy Flow in Bldg) and 386M (Topic 19) may not both be counted.

**Topic 20: Technology/Techniques Sustainable Design.** Architecture 386M (Topic: Technol/Techniq Sustn Dsgn-Ger) and 386M (Topic 20) may not both be counted.

**Topic 21: Timber Technologies.** Architecture 386M (Topic: Timber Technologies) and 386M (Topic 21) may not both be counted.

**Topic 22: Urban Land Institute Workshop.** Only one of the following may be counted: Architecture 386M (Topic 22), Urban Design (UDN) 382M (Topic 1), Urban Design (U D) 382M (Topic 3).

**Topic 25: Preservation Law.** Architecture 386M (Topic: Preservation Law) and 386M (Topic 25) may not both be counted.

**Topic 26: Computational Design.** Explore the theory and application of computational design. Use of software programs to develop experimental projects that uncover new tactics for the design of buildings and objects. Architecture 386M (Topic: COMPUTATIONAL DESIGN) and 386M (Topic 26) may not both be counted.

**Topic 27: Research Design.** Architecture 386M (Topic: Research Design) and 386M (Topic 27) may not both be counted.

**Topic 29: Futures and Cities.** Only one of the following may be counted: Architecture 386M (Topic 29), Landscape Architecture 388 (Topic 2), Urban Design (U D) 388R (Topic 1), Urban Design (UDN) 388R (Topic 1).

**Topic 30: Race and Gender by Design.** Examine the relationship of design relative to the narratives of race, gender, and diversity. Architecture 386M (Topic: RACE AND GENDER: BY DESIGN) and 386M (Topic 30) may not both be counted.

**Topic 31: Architecture Computation.** Architecture 386M (Topic 31) and Urban Design (U D) 388R (Topic 4) may not both be counted.

**Topic 32: Composition and Architecture.** Architecture 386M (Topic: Composition and Architecture) and 386M (Topic 32) may not both be counted.

**Topic 33: Regenerative Architecture.** Architecture 386M (Topic: Regenerative Architecture) and 386M (Topic 33) may not both be counted.

**Topic 34: Sustainable Architectural Design.** Architecture 386M (Topic: Sustainable Arc Design) and 386M (Topic 34) may not both be counted.

**Topic 35: Sustainability: Why This Way.** Architecture 386M (Topic: Sustainability: Why This Way) and 386M (Topic 35) may not both be counted.

**Topic 36: Introduction to Urban Ecology.** Architecture 386M (Topic 36) and Community Regional Planning 383 (Topic 7) may not both be counted.

**Topic 37: Graphic Documentation.** Architecture 386M (Topic: Graphic Documentation) and 386M (Topic 37) may not both be counted.

**Topic 38: National Register of Historic Places.** Architecture 386M (Topic: Natl Reg of Hist Places Docum) and 386M (Topic 38) may not both be counted.

**Topic 39: Architectural Interrogations.** Architecture 386M (Topic: Two Hundred Words) and 386M (Topic 39) may not both be counted.

**Topic 40: Inside Utopia.** Architecture 386M (Topic: Inside Utopia) and 386M (Topic 40) may not both be counted.

**Topic 41: Designing for Human Behavior.** Architecture 386M (Topic: Designing for Human Behavior) and 386M (Topic 41) may not both be counted.

**Topic 42: Building Matters.** Architecture 386M (Topic: Building Matters) and 386M (Topic 42) may not both be counted.

**Topic 43: Spatial Stories.** Architecture 386M (Topic: Spatial Stories) and 386M (Topic 43) may not both be counted.

### **ARC 387F. World Architecture: Origins to 1750.**

Introduction to architectural types, principles, and building technologies from prehistory to the mid-eighteenth century. Three lecture hours a week for one semester. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 387G. World Architecture: The Industrial Revolution to the Present.**

Examination of architecture types, principles, and building technologies with special attention to cultural transfers. Three lecture hours a week for one semester. Prerequisite: Graduate standing, Architecture 387F with a grade of at least C, and consent of the graduate adviser.

### **ARC 388R. Topics in the History of Architecture and Historic Preservation.**

Seminars and lecture/seminars on advanced topics in architectural history, historic preservation, and the history of building technology. Three lecture hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing and consent of the graduate adviser; additional prerequisites vary with the topic.

**Topic 1: 20th Century Latin American Architecture.** Architecture 388R (Topic: 20th Century Latin American Architecture) and 388R (Topic 1) may not both be counted.

**Topic 2: American Architecture.** Architecture 388R (Topic: American Architecture) and 388R (Topic 2) may not both be counted.

**Topic 3: Brazilian Urban Theory.** Architecture 388R (Topic: Brazilian Urban Theory) and 388R (Topic 3) may not both be counted.

**Topic 4: History of Central European Architecture, 1648-Present.** Architecture 388R (Topic: Cent European Arch, 1648-Pres) and 388R (Topic 4) may not both be counted.

**Topic 5: German Modernism.** Architecture 388R (Topic: German Modernism) and 388R (Topic 5) may not both be counted.

**Topic 6: History of Architecture Since 1985.** Architecture 388R (Topic: History of Architecture Since 1985) and 388R (Topic 6) may not both be counted.

**Topic 7: History of Building Technology.** Architecture 388R (Topic: History of Building Technology) and 388R (Topic 7) may not both be counted.

**Topic 8: Hybridity in Landscape/Architecture.** Architecture 388R (Topic: Hybridity in Landscape/Architecture) and 388R (Topic 8) may not both be counted.

**Topic 9: Loos and Mies.** Architecture 388R (Topic: Loos and Mies) and 388R (Topic 9) may not both be counted.

**Topic 10: Modern American Design.** Only one of the following may be counted: Architecture 386M (Topic: Modern American Design), 388R (Topic: Modern American Design), 388R (Topic 10).

**Topic 11: History of Architectural Theory.** Architecture 388R (Topic: HISTORY OF ARCHITECTURAL THRY) and 388R (Topic 11) may not both be counted.



**Topic 12: Romes Gardens and Landscapes.** Only one of the following courses may be counted: Architecture 388R (Topic: Italian Villa and Garden), 388R (Topic 12), Landscape Architecture 388 (Topic: Italian Villa and Garden), 388 (Topic 3).

**Topic 13: Modern History of Sustainable Architecture.** Architecture 388R (Topic: Modern History of Sustainable Architecture - GER) and 388R (Topic 13) may not both be counted.

**Topic 14: Modern European Architecture.** Architecture 388R (Topic: Modern European Arch-Europe) and 388R (Topic 14) may not both be counted.

**Topic 15: Methodologies in Architectural History.** Architecture 388R (Topic: Methodologies in Arch History) and 388R (Topic 15) may not both be counted.

**Topic 16: Advanced Architectural History.** Architecture 388R (Topic: Advanced Architecture Hist-ITA) and 388R (Topic 16) may not both be counted.

**Topic 17: Preservation History and Theory.** Architecture 388R (Topic: Preservation History & Theory) and 388R (Topic 17) may not both be counted.

**Topic 18: Preservation Planning and Practice.** Architecture 388R (Preservation Planning/Practice) and 388R (Topic 18) may not both be counted.

**Topic 19: Design Logics: Projection and Proportion in Architecture.** Architecture 388R (Topic: Design Logics: Projection and Proportion in Architecture) and 388R (Topic 19) may not both be counted.

**Topic 20: Migratory Urbanism.** Only one of the following may be counted: Architecture 386M (Topic: Migratory Urbanism), 388R (Topic 20), Community Regional Planning 385C (Topic 15), 388 (Topic: Migratory Urbanism), Urban Design (U D) 386M (Topic 4), Urban Design (UDN) 383M (Topic 4).

**Topic 21: Professional Design Practice: Baroque Rome.** Only one of the following may be counted: Architecture 388R (Topic: Prof Dsgn Prac: Baroq Rome), 388R (Topic 21), Landscape Architecture 388 (Topic: Prof Dsgn Prac: Baroq Rome), 388 (Topic 4). Additional prerequisite: Graduate standing

**Topic 22: Cultural Landscape and Ethnographic Methods.** Architecture 388R (Topic: Cultl Lndscp and Ethnogr Meths) and 388R (Topic 22) may not both be counted.

**Topic 23: Borderlands and Mexican Built Environment History.** Architecture 388R (Topic: Borderlnds/Mexcn Landscapes) and 388R (Topic 23) may not both be counted.

**Topic 24: African American Experience in Architecture.** Architecture 388R (Topic: Afr Amer Experience in Arch) and 388R (Topic 24) may not both be counted.

**Topic 25: History of the Profession: Architecture and Capitalism.**

**Topic 26: Theorizing Space in the Americas.** Architecture 388R (Topic: Theorizing Space: Americas) and 388R (Topic 26) may not both be counted.

**Topic 27: History of American City Building.** Only one of the following may be counted: Architecture 388R (Topic: Hist of Amer City Building), 388R (Topic 27), Community and Regional Planning 389C (Topic: Hist of Amer City-Building), 392C (Topic: Hist of Amer City-Building), 392C (Topic 1), Urban Design (U D) 389R (Topic 1), Urban Design (UDN) 389R (Topic: Hist of Amer City Building), 389R (Topic 1).

**Topic 28: Representing Landscape and Architecture, 1500-Present.** Explore the roles of visual representation in design and professional practice from Leonardo da Vinci to the digital age. Review the history of techniques, media, and conventions of representation in architecture and landscape architecture and in their intersections. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 388R (Topic: Reprsnt Lndscp Arch, 1500-2015), 388R (Topic 28), 395K; Landscape Architecture 388 (Topic: Reprsnt Lndscp Arch, 1500-2015), 388 (Topic 10), 395K. Additional prerequisite: For students in the School of Architecture,

graduate standing; for others, graduate standing and consent of instructor.

### **ARC 389, 689. Research in Architecture.**

Investigation of problems in architecture, urban design, and development selected by the student with approval of the Graduate Studies Committee. Three or six lecture hours a week for one semester. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 189R. Architectural Research.**

Investigation of problems selected by the student with approval of the supervising faculty member. One studio hour a week for one semester. May be repeated for credit. Prerequisite: Graduate standing.

### **ARC 190C, 390C. Architecture Practicum.**

Restricted to students in the following programs: Master of Architecture (first professional), Master of Architecture (post-professional), Master of Science in Sustainable Design, Master of Science in Urban Design, Master of Arts in Architectural History, Master of Science in Historic Preservation, Master of Science in Architectural Studies. For each semester hour of credit earned, the equivalent of one lecture hour a week for one semester, with additional hours to be arranged. May be repeated for credit. Offered on the credit/no credit basis only. Prerequisite: Graduate standing, and written consent of the graduate adviser and chair of the Architecture Graduate Studies Committee.

### **ARC 690H. Master's Design Studio--Dual Degree.**

Restricted to dual degree students. Advanced study in architecture, addressing complex design problems and issues related to various architectural topics. The equivalent of nine laboratory hours a week for two semesters. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 391C. Urban Design History, Theory, and Criticism.**

Study of critical theories and practices that affect the built environment. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 391C, Urban Design (U D) 388, Urban Design (UDN) 388K. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 391P. Productions.**

Same as Architectural Interior Design 391P. Designed to explore the relationships between the generation of form, space, experience, and atmosphere in the spatial practices of interior design, architecture, and art. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 386M (Topic: Productions), 391P, Architectural Interior Design 386M (Topic: Productions), 391P. Prerequisite: For students in the School of Architecture, graduate standing; for others, graduate standing and consent of instructor.

### **ARC 392D. Advanced Drawing.**

Focus on personal design methodology by exploring multiple drawing methods, skills, and approaches including manual, digital, and hybrid techniques. Refines design communication skills by pairing clearly articulated design intention with compelling drawings, and expressing them via effective verbal presentations. Five laboratory hours a week for one semester. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 692K. Historic Preservation Studio.**

Interdisciplinary studio integrating design and other preservation issues at scales from interiors to landscapes and urban districts. The equivalent of fifteen laboratory hours a week for one semester. May be repeated for credit. Prerequisite: Graduate standing.

### **ARC 392P. Prototype.**

Same as Architectural Interior Design 392P. Focus on digital fabrication as a link between architecture and product design. Five laboratory hours a week for one semester. Only one of the following may be counted: Architecture 381R (Topic: Prototype), 392P, Architectural Interior Design 381R (Topic: Prototype), 392P. Offered on the letter-grade basis only. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 392V. Digital Visualization and the Built Environment.**

Digital visualization techniques used to model three dimensional environments and motion with digital media. Includes lectures, software demonstrations, and projects that focus on the digital translation of spatial experience, including the visualization techniques associated with rendering texture, character, and environment. Five laboratory hours a week for one semester. Prerequisite: Graduate standing and consent of graduate adviser.

### **ARC 392W. Wood Design.**

Practice on basic woodworking skills: tool sharpening, layout, millwork, joinery, gluing, sanding, and finishing. Five laboratory hours a week for one semester. Prerequisite: Graduate standing and consent of graduate adviser.

### **ARC 694. Architectural Design: Vertical Studio.**

Design problems dealing with subjective and objective decision making, study and application of drawing and other communication skills for architects, investigation of physical and social contexts, and the practical requirements of sound building. The equivalent of twelve laboratory hours a week for one semester. Architecture 393 and 694 may not both be counted. Architecture 394 and 694 may not both be counted. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 394S, 694S. Horizontal Studio.**

For 394S, nine laboratory hours a week for one semester; for 694S, twelve laboratory hours a week for one semester. Prerequisite: Graduate standing and consent of the graduate advisor.

### **ARC 395C. Mexican Architecture and Urbanism: From Pre-Columbian to Contemporary.**

A survey of Mexican architecture and urbanism from its origins in pre-Columbian times to the twenty-first century. Evaluation of architecture as a cultural production intricately connected to its artistic and historical context and the landscape that supports it. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 395C, Urban Design (U D) 388R (Topic 3), Urban Design (UDN) 388R (Topic: Mex Arch: Pre-Columb-Contemp). Prerequisite: For students in the School of Architecture, graduate standing; for all others, graduate standing and consent of instructor.

### **ARC 395D. Frank Lloyd Wright: Design, Method, Theory.**

Same as Architectural Interior Design 395D and Landscape Architecture 395D. Comprehensive study of Frank Lloyd Wright's life and work with emphasis on the analyses of his concepts of organic architecture, design methods, and theories. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 388R (Topic: Frank Lloyd Wright: Design, Method, Theory), 395D, Architectural Interior Design 388R (Topic: Frank Lloyd Wright: Design, Method, Theory), 395D, Landscape Architecture 388 (Topic: Frank Lloyd Wright), 395D. Offered on the letter-grade basis only. Prerequisite: Graduate standing.

### **ARC 395E. History and Theories of Landscape Architecture I.**

Overview and chronological series of in-depth studies in the history of major garden cultures and designed landscapes of the Western and Eastern worlds. Introduction to methodological approaches to the formal, social, and cultural history of gardens and landscapes, as well

as to relevant theoretical frameworks for interpreting these designed landscapes and for use in conceptualizing landscapes, architecture, and urban projects in studio design. Three lecture hours a week for one semester. Architecture 388R (Topic: History and Theories of Landscape Architecture I) and 395E may not both be counted. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 395F. History and Theories of Landscape Architecture II.**

Continuation of Architecture 395E through the modern period and contemporary times. Formal and cultural history of gardens, parks, and public landscapes from 1700 to about 1990. Includes comparative material from the contemporary period, 1980 to 2010. Three lecture hours a week for one semester. Architecture 388R (Topic: History and Theories of Landscape Architecture II) and 395F may not both be counted. Prerequisite: Graduate standing and consent of the graduate adviser.

### **ARC 395G. The American Home: Identity, Process, and Marketing.**

Same as Architectural Interior Design 395G and Landscape Architecture 395G. An examination of how American housing is conceived, developed, and marketed, as well as relationships between home buyers and builders. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 388R (Topic: American Home), 395G, Architectural Interior Design 388R (Topic: American Home), 395G, Landscape Architecture 388 (Topic: American Home), 395G. Offered on the letter-grade basis only. Prerequisite: For students in the School of Architecture, graduate standing; for others, graduate standing and consent of instructor.

### **ARC 395J. Originality Tradition in Baroque Rome: Borromini.**

Same as Landscape Architecture 395J. Explores the synthetic act of design and notions of originality and tradition in the arts of Baroque Rome by studying Francesco Borromini and his work through the lenses of professional design practice, the arts, contemporary Galilean science, and papal society. Three lecture hours a week for one semester. Only one of the following may be counted: Architecture 388R (Topic: Professional Design Practice: Baroque Rome), 395J, Landscape Architecture 388 (Topic: Professional Design Practice: Baroque Rome), 395J. Prerequisite: For students in the School of Architecture, graduate standing; for others, graduate standing and consent of instructor.

### **ARC 695S. Advanced Architectural Design: Integrative Studio.**

Advanced studio to develop skills in assimilating concepts into a feasible building design. Ten laboratory hours a week for one semester. Architecture 695 and 695S may not both be counted. Offered on the letter-grade basis only. Prerequisite: Graduate standing; Architecture 694; and consent of the Graduate Adviser.

### **ARC 696. Topics in Advanced Architectural Design.**

Advanced problems in architectural design to help develop skills in areas of students' and faculty member's choice, including interior architecture and preservation, as well as landscape, urban, and sustainable design. The equivalent of ten laboratory hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing, Architecture 694 or the equivalent, and consent of the graduate adviser.

### **ARC 697. Topics in Master's Design Studio.**

Forum for advanced study in architecture, addressing complex design problems and issues related to various architectural topics. The equivalent of eighteen laboratory hours a week for one semester. May be

repeated for credit when the topics vary. Prerequisite: Graduate standing and consent of the graduate adviser.

#### **ARC 397K. Topics in Doctoral Research in Architecture.**

Conference course for students preparing for the dissertation colloquium. Conference course. May be repeated for credit when the topics vary. Offered on the credit/no credit basis only. Prerequisite: Graduate standing in architecture and consent of the graduate adviser.

#### **ARC 698. Thesis.**

For students seeking the Master of Science or Master of Arts degrees in the School of Architecture, those seeking the Master of Architecture as a postprofessional degree, and those seeking the Master of Architecture as a first professional degree who choose to complete the requirements of a concentration. The equivalent of three lecture hours a week for two semesters. Offered on the credit/no credit basis only. Prerequisite: For 698A, graduate standing in architecture and consent of the graduate adviser; for 698B, Architecture 698A.

#### **ARC 398D. Departmental Report.**

Preparation of a degree project to fulfill the requirement for the Master of Science in Historic Preservation or other School of Architecture degree program under the departmental report option. May be taken for a single semester (similar to the Professional Report), or two semesters (similar to the Thesis). The equivalent of three lecture hours a week for one semester. May be repeated for credit. Offered on the credit/no credit basis only. Prerequisite: Graduate standing and consent of the graduate adviser.

#### **ARC 398R. Master's Report.**

Preparation of a report to fulfill the requirement for the master's degree under the report option. The equivalent of three lecture hours a week for one semester. Offered on the credit/no credit basis only. Prerequisite: Graduate standing in architectural studies and consent of the graduate adviser.

#### **ARC 398T. Supervised Teaching in Architecture.**

Designed to orient the beginning teacher in effective methods of teaching architecture and related topics. Three lecture hours a week for one semester. Required for assistant instructors in architecture. Prerequisite: Graduate standing and consent of the graduate adviser.

#### **ARC 399W, 699W, 999W. Dissertation.**

May be repeated for credit. Offered on the credit/no credit basis only. Prerequisite: Admission to candidacy for the doctoral degree.

### **Professional Courses**