

# ARCHITECTURE

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Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.

More Info (<https://one.ufl.edu/soc/>)

*Unless otherwise indicated in the course description, all courses at the University of Florida are taught in English, with the exception of specific foreign language courses.*

## Department Information

The School of Architecture recognizes design as a synthesis of thinking, analyzing and making — an iterative process that engages, issues of space, historical precedent, sustainability, ecology, urbanity, landscape, built-form, and construction toward innovation. The School of Architecture is uniquely positioned to respond to these issues by deploying studio based design methodologies in collaboration with a new generation of experts in engineering, ecology, business, anthropology, energy, fine arts, medicine, and construction.

**Website** (<https://dcp.ufl.edu/architecture/>)

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Map (<http://campusmap.ufl.edu/#/index/0268>)

### Curriculum

- Architecture

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## Courses

### ARC 1000 Architecture and Humanity 3 Credits

**Grading Scheme:** Letter Grade

Introduces the issues and opportunities derived through actively engaging the sustainable and ethical design of the environments in which people live: urban, landscape, and architectural.

**Attributes:** General Education - Humanities

### ARC 1002C Introduction to Architecture 3 Credits

**Grading Scheme:** Letter Grade

An introduction to the principles of architectural design. The course includes project-based exercises, lectures, and discussions.

### ARC 1101 Places and Spaces 3 Credits

**Grading Scheme:** Letter Grade

Examines the way humankind has shaped its world while framing particular relationships with nature and asks: what does it mean to make a mark upon the land? What does it mean to dwell, and what do the inhabited places mean to people?

**Prerequisite:** Restricted to degree-seeking undergraduates.

**Attributes:** Quest 1, General Education - Humanities, General Education - International

### ARC 1301 Architectural Design 1 4 Credits

**Grading Scheme:** Letter Grade

Introduces interfacing communication skills with design thinking. Emphasizes awareness and understanding of basic organization ideas in design.

**Prerequisite:** (architecture or interior design or landscape architecture major) or college advising center permission.

### ARC 1302 Architectural Design 2 4 Credits

**Grading Scheme:** Letter Grade

An analysis course that uses the study of architectural precedent as a foundation for the development of communication and design skills.

**Prerequisite:** ARC 1301.

### ARC 1701 Architectural History 1 3 Credits

**Grading Scheme:** Letter Grade

General survey of social, political, and cultural factors that have generated art and architecture. (H and N) (WR)

**Prerequisite:** architecture major.

**Attributes:** General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement

**ARC 1702 Architectural History 2 3 Credits****Grading Scheme:** Letter Grade

A survey of the history of architecture from 1400 to 1850. Lectures examine the effects of social, political, material, technological and cultural forces on the design and construction of the built environment and explore the role of the architect in civil society. Emphasizes the theoretical positions of the architects and architectural schools. (H and N)

**Prerequisite:** architecture major.**Corequisite:** ARC 1301 or ARC 4072.**Attributes:** General Education - Humanities, General Education - International**ARC 1720 Survey of Architecture History 3 Credits****Grading Scheme:** Letter Grade

A survey of monumental buildings and their embodied architectural intentions from the pre-historical ages to the current age. Demonstrating interactive relationships between form and idea in architecture throughout history across cultural and regional differences. (H and N) (WR)

**Prerequisite:** non-architecture majors only.**Attributes:** General Education - Humanities, General Education - International, Satisfies 6000 Words of Writing Requirement**ARC 2180 Introduction to Digital Architecture 3 Credits****Grading Scheme:** Letter Grade

Introduces computer-aided design programs currently utilized by professional practices.

**Prerequisite:** architecture majors only;**Corequisite:** ARC 2303 or ARC 4071.**ARC 2201 Theory of Architecture 1 3 Credits****Grading Scheme:** Letter Grade

Critical study of the processes that influence the form and image of architecture with an emphasis on an understanding of ordering principles and concepts of how space and architecture systems are interrelated. (H)

**Prerequisite:** architecture major.**Corequisite:** ARC 2303 or ARC 4071.**Attributes:** General Education - Humanities**ARC 2303 Architectural Design 3 5 Credits****Grading Scheme:** Letter Grade

Studio course explores the influence of history and culture on design decision-making.

**Prerequisite:** ARC 1302.**ARC 2304 Architectural Design 4 5 Credits****Grading Scheme:** Letter Grade

Explores context as a generator of architectural design ideas. Contemporary cultural influences also are examined and incorporated in the design process.

**Prerequisite:** ARC 2303.**ARC 2461 Materials and Methods of Construction 1 3 Credits****Grading Scheme:** Letter Grade

The nature of materials used in construction. Criteria for evaluation and selection related to design decision-making.

**Prerequisite:** architecture major.**Corequisite:** ARC 2304.**ARC 2490C Intro to Building Technologies 3 Credits****Grading Scheme:** Letter Grade

First course in a sequence that addresses the relationship between building technologies and design thinking by introducing fundamental concepts of materials and methods relative to building design and construction. Also offers digital design modules that develop problem-solving and representational skills.

**Corequisite:** ARC 2303.**ARC 2491C Integrated Building Tech 1 3 Credits****Grading Scheme:** Letter Grade

As the second course in a multi-year integrated building technology sequence, there will be an emphasis on further developing components of materials and methods, digital design and on the introduction of environmental design that will increase the student's understanding of the impact of context and building technologies on design decisions.

**Prerequisite:** ARC 2490C;**Corequisite:** ARC 2304.**ARC 3181 Advanced Topics in Digital Architecture 3 Credits****Grading Scheme:** Letter Grade

Continued investigation of computer-aided design programs currently utilized by professional practices.

**Prerequisite:** ARC 2180.

**ARC 3291 Special Studies in Architecture 1-6 Credits****Grading Scheme:** Letter Grade

Special studies in architecture adjusted to individual needs of undergraduate students.

**Prerequisite:** completion of lower division in architecture and recommendation of advisor.**ARC 3320 Architectural Design 5 6 Credits****Grading Scheme:** Letter Grade

Investigates architectural design and its relationship to regional contextual influences through a range of projects which vary in scale and complexity.

**Prerequisite:** ARC 2304.**ARC 3321 Architectural Design 6 6 Credits****Grading Scheme:** Letter Grade

Architectural design within a large scale urban context. Theory, methodology and evolution of urban form in response to social, cultural, economic and technological forces.

**Prerequisite:** ARC 3320.**ARC 3463 Materials and Methods of Construction 2 3 Credits****Grading Scheme:** Letter Grade

Methods of assembling and selecting materials; detailed systems of construction are investigated.

**Corequisite:** ARC 4323 or ARC 4073.**ARC 3492C Integrated Building Tech 2 6 Credits****Grading Scheme:** Letter Grade

As the third course in a multi-year integrated building technology sequence, there will be an emphasis on further developing components of environmental design, materials and methods, and building structures, in addition to a digital design module that will concurrently develop student abilities to problem solve and represent ideas.

**Prerequisite:** ARC 2491C;**Corequisite:** ARC 3320.**ARC 3493C Integrated Building Tech 3 6 Credits****Grading Scheme:** Letter Grade

As the fourth course in a multi-year integrated building technology sequence, there will be an emphasis on further developing components of environmental design, materials and methods, and digital design skills that will allow students to apply their knowledge to mid-rise buildings of increasing complexity.

**Prerequisite:** ARC 3492C;**Corequisite:** ARC 3321.**ARC 3503 Introduction to Architectural Structures 3 Credits****Grading Scheme:** Letter Grade

A foundation course that investigates principles of structural behavior in withstanding gravity and lateral forces; consider structural layout, load distribution and preliminary design techniques; and examines contemporary structural systems through case studies emphasizing trussed, framed, funicular and shell structural systems.

**Prerequisite:** PHY 2004 or PHY 2053;**Corequisite:** ARC 3320 or ARC 4073.**ARC 3610 Environmental Technology 1 3 Credits****Grading Scheme:** Letter Grade

Principles and practices relating to control of the thermal/atmospheric environment and to plumbing in buildings.

**Corequisite:** ARC 3321 or ARC 4074.**ARC 3743 Architectural History 3 3 Credits****Grading Scheme:** Letter Grade

A survey of the history of architecture from 1850 to present. Lectures examine the effects of social, political, material, technological and cultural forces on the design and construction of the built environment and explore the role of the architect in civil society. Emphasizes the theoretical positions of the architects and architectural schools.

**Prerequisite:** architecture major.**Corequisite:** ARC 3320.**ARC 3880 Sustainable Architecture 3 Credits****Grading Scheme:** Letter Grade

How environmentalism informs architectural discourses and how discourses on the built environment and urbanism impact environmentalism globally.

**Prerequisite:** Junior standing or higher or instructor permission.**ARC 4071 Core Studio 1 6 Credits****Grading Scheme:** Letter Grade

Introduces a variety of design techniques, including design theory, three-dimensional development, and spatial relationships.

**Prerequisite:** department permission.

**ARC 4072 Core Studio 2 6 Credits**

**Grading Scheme:** Letter Grade

Continuation of core studio sequence with increased emphasis on manipulation of architectural elements.

**Prerequisite:** ARC 4071.

**ARC 4073 Core Studio 3 6 Credits**

**Grading Scheme:** Letter Grade

Continuation of core studio sequence with studio projects related to program development, structural integration, energy analysis and introduction to mechanical integration systems.

**Prerequisite:** ARC 4072.

**ARC 4074 Core Studio 4 6 Credits**

**Grading Scheme:** Letter Grade

Continuation of core studio sequence with increased emphasis on complex building types.

**Prerequisite:** ARC 4073.

**ARC 4220 Architectural Theory 2 3 Credits**

**Grading Scheme:** Letter Grade

Investigates the theoretical, historical and ideological ideas in architecture that took place during the early decades of the twentieth century.

**Corequisite:** ARC 4322 or ARC 6241.

**ARC 4310C Building Information Modeling 3 Credits**

**Grading Scheme:** Letter Grade

Emerging technology in building information modeling (BIM) in the context of architectural design development and documentation. Theoretical and technological evolution of different typologies of software with hands-on experience designing and modeling with BIM software.

**Prerequisite:** ARC 2180.

**ARC 4322 Architectural Design 7 6 Credits**

**Grading Scheme:** Letter Grade

Emphasizes the notion of control over architectural design processes needed to arrive at solutions that respond to needs through appropriate use of program development and construction technology. Course emphasizes the complete building as a final product and focuses on the urban and suburban housing project.

**Prerequisite:** ARC 3321.

**ARC 4323 Architectural Design 8 6 Credits**

**Grading Scheme:** Letter Grade

Architecture designs focus on architectural detail and articulation. An investigation of landscape provides the context for this study.

**Prerequisite:** ARC 4322.

**ARC 4494C Integrated Building Tech 4 3 Credits**

**Grading Scheme:** Letter Grade

Emphasizes the development of structures, materials, and methods, and environmental design skills that apply to high-rise, long-span, and large-scale building design. Provides focus to both the technical knowledge of macro-scale design-drivers and the detail implications of structure, environmental performance, and building assemblies.

**Prerequisite:** ARC 3493C Integrated Building Technology 3;

**Corequisite:** ARC 4322 Architecture Design 7.

**ARC 4511 Structural Modeling 3 Credits**

**Grading Scheme:** Letter Grade

Introduces the fundamentals of structural modeling including building information modeling (BIM), digital design, and approximate systems analysis and detailing for architectural structures. Students will learn how to efficiently implement building information modeling to organize, coordinate and communicate information to convey data necessary for structural systems.

**Prerequisite:** ARC 3503.

**ARC 4620 Environmental Technology 2 3 Credits**

**Grading Scheme:** Letter Grade

Fundamentals of architectural lighting, acoustics, electrical power distribution and building communications.

**Corequisite:** ARC 4322 or ARC 6241.

**ARC 4684 LEED for Sustainable Design and Construction 3 Credits**

**Grading Scheme:** Letter Grade

Campus projects demonstrate design and construction of high performance buildings and application of green building technologies. Economics and market development associated with the application of green building rating systems, with a focus on LEED. Successful completion helps prepare for LEED V4 Green Associate exam credentials.

**Prerequisite:** junior standing or higher.

**ARC 4882 Vernacular Architecture and Sustainability 3 Credits**

**Grading Scheme:** Letter Grade

Investigates vernacular architecture in the discourse of architectural sustainability with an emphasis on the way that vernacular architecture has been constructed, represented and consumed in the environmental histories of architecture.

**Prerequisite:** junior standing or higher or instructor permission.

**ARC 4930 Special Topics Seminar in Architecture 1-6 Credits**

**Grading Scheme:** Letter Grade

Miscellaneous topics in architecture and related fields.

**Prerequisite:** Junior standing or higher or instructor permission.

**ARC 4941 Architectural Education 2 Credits**

**Grading Scheme:** Letter Grade

Provides an awareness of curriculum development, project preparation, program/project presentation, constructive criticism and evaluation techniques.

**Prerequisite:** ARC 3321.

**ARC 4950 Vicenza Institute of Architecture: Italian Language and Culture 3 Credits**

**Grading Scheme:** Letter Grade

Taught through the Vicenza Institute of Architecture, located in Vicenza, Italy. It is intended for architecture students participating in the VIA program. The course establishes a basic level of competency in Italian language and culture as it relates to the architectural goals of the VIA program.

**Prerequisite:** ARC 3321.

**ARC 4951 Vicenza Institute of Architecture: Architectural Design Studio 6 Credits**

**Grading Scheme:** Letter Grade

Architectural design examining the regional contextual relationships found in northern Italy as well as central and southern Europe. Design exercises focus on the immediate relationships of European urban space, ideas of building program and the potential development of architectural details and material systems.

**Prerequisite:** ARC 3321.

**ARC 4952 Vicenza Institute of Architecture: Analytical Sketching 3 Credits**

**Grading Scheme:** Letter Grade

Introduces sketching as an analytical skill in understanding constructed space within the context of Italy's Veneto region as well as central and southern Europe.

**Prerequisite:** ARC 3321.

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