School of Architecture

Roy F. Knight, Dean
William J. Lauer, Associate Dean

The School of Architecture offers a program of professional studies which prepares its graduates for the practice of architecture. While emphasizing knowledge and skills required by architects in guiding the processes of building, the school is especially concerned that its students learn that kind of good judgment which particularly distinguishes the architect from all other professionals who serve the building industry. Therefore, the student is regularly called upon to pay attention to cultural, philosophical and ethical issues that appropriately concern the architect in performance of the art of building. The student is also required to discover and understand the principles by which our physical universe appears to operate in order to know the science of building as fully as possible. It is important for the student to learn the characteristics of the natural environment while learning the physical behavior of materials in structures. Furthermore, the program of the school is concerned with preparing the student to be adaptable to change. An understanding of society is important as we see it developing in sometimes surprising ways. This places special demands upon the architect. Consequently the program of the School emphasizes the process of learning with the intent of enabling its graduates to adapt to the changing circumstances of our world. How to learn about architecture is as important a matter for the student as learning itself.

Facilities

In the spring of 1981, a new building housing the School of Architecture and shared by the Art Department was completed. The Art and Architecture Building contains all the primary activities of the school. Expressly designed for the school in an open architectural competition, the building has received widespread recognition and has become one of the models sought out by other schools. The building was designed by the Knoxville architectural firm of McCarty, Bullock, Holsaple, Inc. It contains as its major feature a large interior mall or street. Opening off this large gathering space, which serves as a campus focal point, are amply designed classrooms, a reference library which contains extensive slide collections and other reference materials, computer rooms, faculty offices, lecture rooms, administrative offices, an elaborate darkroom, workshop, and a gallery in which architecture as well as art exhibits are mounted.

The principal library holdings of the school are located in the James D. Hoskins Library, with additional volumes in the Undergraduate Library. A reading and reference room is maintained in the Art and Architecture Building.

Financial Assistance for Students

A number of $500 sponsorships are made available each year by architectural firms, manufacturers of building materials, and other construction related industries. These grants are used to cover tuition, books and equipment. Scholarships are also available through the national headquarters of the American Institute of Architects. Honor students in all the upper four years are eligible for this aid, but it is primarily awarded to student's of third-and fourth-year standing.

Lecture Program

Throughout the academic year, the school organizes an extensive series of special lectures by experts in architecture and related subjects. Students are expected to attend regularly and benefit from this opportunity to hear the leading people of the field. The lectures are open to the University community and the public as well.

Included in the series is the ROBERT B. CHURCH MEMORIAL LECTURESHIP. Named for the school's second dean, it has become widely respected in the field as an honor to be appointed to this lectureship. The most prominent architects from around the world are brought to the school with income from the endowment.

Other important lectures are sponsored by the General Shale Corporation and the architectural branch of the Tennessee Valley Authority. Annually in the spring quarter a special program called TAAST is arranged. Within a period of one week the entire school participates in special lectures, seminars, exhibits, and informal gatherings. Featured are discussions by a series of visiting experts. TAAST is a student organized event.

Publications

Students in the school each year publish The University of Tennessee Journal of Architecture. Continuing several years of excellent publications covering work of the school and current thinking in the field, this journal has become a widely recognized part of the school's participation in the profession.

Foreign Studies Program

Each year the school offers at least two opportunities for foreign study to its students. In cooperation with the Danish International Student Committee a program is regularly offered in Copenhagen taught by outstanding Danish architects and educators.

Within the school faculty, a person is assigned responsibility to lead a program in Europe each year at varied locations. These are designed to include visits to prominent new architectural sites and major historic locations.

Studies abroad, which are arranged to include a full quarter's credit for advanced students, include design, history, and theory of architecture.

Memphis and Knoxville Community Design Centers

Each year, throughout the year, advanced students may work at these locations off-campus enrolling in a course; Arch. 4445 Design Service in Communities, or Arch. 4400 Independent Design Studies. These programs enable students to gain first-hand experience and work alongside outstanding professional architects while dealing with actual community based projects. In both locations students may enroll in additional courses to complete a full quarter's program of study in keeping with curriculum requirements.
General Information

Students are advised to consult the University's general requirements as stated in the front section of this catalog as well as the requirements described in the School of Architecture's Student Handbook.

Self advising will not be permitted in the School of Architecture. Students must plan their schedule by consulting with an assigned advisor. Electives will be chosen with the concurrence of the advisor and with full consideration of the necessary prerequisites.

Freshman Association Requirements

The School of Architecture, being a professional program and having limited resources, has a restricted enrollment based on the following criteria:

1. Accept applicants with a total of 55 or above.
2. Accept applicants with an ACT composite score of 27 or above.

Advanced Type

The School of Architecture, being a professional program, has a restricted enrollment based on the following criteria:

1. Accept applicants who are third-year students in the School of Architecture.

School of Architecture Academic Standards Committee and Dean of the School of Architecture, who will approve specific programs of study proposed by students.

Course Load

The average course load in any quarter is 16 credit hours. The minimum which may be taken by full-time students is 12 hours; the maximum which may be taken without approval of the dean is 19 hours.

Satisfactory/No Credit Courses

These courses, if successfully completed, will count as hours for graduation, although neither S nor NC grades will be calculated in the student's grade point average. Satisfactory is defined as C or better work on the traditional grading scale, and no credit is defined as less than C. The following regulations apply: (1) S/NC courses may not count for required courses or architecture electives; (2) a student who desires to take a course S/NC should indicate this intention at the start of registration. A change from S/NC grading to regular grading or from regular grading to S/NC will not be permitted beyond the add deadline for each quarter. Exception: students who register for a course S/NC in a restricted area will be required to change to regular grading when the error is discovered.

Program Description

The curriculum for the Bachelor of Architecture Degree includes a combination of required and elective courses which offer the student both a solid professional program of study and a sound general education. While the majority of the courses are designated as required, students may use the available architecture electives to expand their knowledge in areas of special interest. Academic non-architecture electives allow students to broaden their education in areas of general interest: the humanities, natural sciences, social sciences or arts. All electives are to be taken only with the approval of the student's advisor.

Curricula for Architecture

All students pursuing a Bachelor of Architecture degree must satisfy the following requirements in their course of study. Students are not allowed to enroll simultaneously in two design courses. For any additional specialized requirements, the student should refer to the Student Handbook of the School of Architecture and the student's advisor.

Service Practicum Requirement

A three-month, non-credit internship in an architect's office is required. Upon petition, work in an engineer's, or contractor's office or related work may be approved by the school. This work must be evidenced by a letter from the employer indicating type and quality of student's work and time of employment prior to the fifth year. (See course description for Architecture 4000.)

Foreign students may need to obtain Immigration and Naturalization Service approval before service practicum begins. To obtain authorization, foreign students should take their I-94 form to the Office of International Student Affairs not more than 60 days nor less than 30 days before the anticipated starting dates.

Beginning service practicum employment without INS authorization constitutes unauthorized employment and may jeopardize foreign student's continued stay in the United States.

<table>
<thead>
<tr>
<th>Course Load</th>
<th>Hours Credit</th>
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<td>First Year</td>
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<td>Second Year</td>
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*Students are not allowed to enroll simultaneously in two of these design courses.

Bachelor of Architecture as a Second Degree

A curriculum leading to a Bachelor of Architecture degree is available to students who already hold a bachelor's degree or an advanced degree in another field.

This program begins with intensive initial studies in architecture and is possible to complete within three years. A minimum of 9 quarter residencies is required. The degree is the first professional degree recognized for purposes of eventual qualification for the license to practice architecture.

Applicants must provide a transcript of previous academic work and have attained at least a 2.5 overall grade point average. Appropriate goals and abilities must be shown by the applicant as well.

SECOND DEGREE PROGRAM MINIMUM REQUIREMENTS

<table>
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<tr>
<th>Course</th>
<th>Hours Credit</th>
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<td>Architecture 2207, 2307, 3107</td>
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Approved Electives List

Approved Electives: First & Second Year Students
1100 Introduction to Architecture (3) Examination of scope and definition of architecture. Imaginative, professional forms. Light, shadow, and color. Creative abstraction exercises and sketches to focus on basic architectural principles. Prereq: 1100 and 1101. W.

1201 Visual Design Principles (2) Basis of visual order: proportion, scale, balance, figure-ground relationships, and rhythm. Studies of two and three dimensional forms. Light, shadow, and color. Creative abstraction exercises and sketches to focus on basic architectural principles. Prereq: 1100 and 1101. W.

1202 Second Degree Program: Basic Architecture II (3) Principles of site development and basic approaches to planning and design of buildings in relation to function and context. Prereq: 1190 and 1191; coreq: 1251. W.

1203 Second Degree Program: Architecture Seminar II (2) Examination of new directions and research in architectural education. Analysis of site conditions. Prereq: 1190 and 1191; coreq: 1250. W.


1301 Structural Types (2) Basic building structural types and their application to the assembly of buildings, post and lintel, frames, slabs, stressed skin, geodesic frames, shells. Introduction to concepts of compression, tension, and bending moments. Properties of basic building materials. Prereq: 1200 and 1201. S.


2100 Fundamentals of Site Design (4) Projects involving site orientation, climate, energy conservation, access, topography, grading and drainage. Prereq: 1300 and 1301; coreq: 2101. F.

2101 Design in the Environment (2) Introduction to design and planning for small buildings in urban and architectural contexts. Review of exemplary approaches in current practice. Prereq: 1300 and 1301; coreq: 2110. F.

2114 Computer Applications in Architecture (4) Demonstration of computer use in architecture, including exercises. Prereq: 1300. W.

2200 Elements of Architecture (4) Design of small buildings with special consideration for site, internal circulation patterns, space allocation, and structural order. Presentation sketches, constructed drawings, and sketch models. Prereq: 2100 and 2101; coreq: 2201. W.

2221 Building Use (2) Introduction to techniques of building programming. Space allocation and balance. Interrelated use of spaces in terms of use. Examination of user requirements. Typical approaches to entry, access, circulation, and display. Diagnostic presentations and sketches from field observations. Prereq: 2100 and 2101; coreq: 2200. W.

2207 Architectural History I (3) Development of architecture from antiquity through the Byzantine period, with consideration for cultural conditions and form of settlements. E.


2306 Order and Form in Building (4) Design of small buildings answering site and functional requirements. Emphasis on exploration of formal possibilities and structural implications in relation to program use. Presentation sketches, constructed drawings, and finished model. Prereq: 2200 and 2201; coreq: 2301. S.

2301 Models of Building Form (2) Exemplary buildings illustrating imaginative manipulation of form in relation to specific program requirements. Prereq: 2200 and 2201; coreq: 2300. S.

2307 Architectural History II (3) Development of western architecture from the medieval period through the Baroque. Prereq: 2207. E.


3100 Architectural Design I: Review (6) Two or more building projects creatively incorporating architectural principles covered in first and second year courses. Concept drawings, constructed drawings, and models for presentation of design solutions. Prereq: 2300 and 2306. F.

3107 Architectural History III (3) Study of the modern movement from its roots in Romanticism, Classicism, and the Industrial Revolution through the work of modern masters. Prereq: 2300. E.

3114 Structures in Wood and Steel (4) Introduction to design and analysis of simple steel and wood structures based upon specific loading requirements. Use of construction and building codes, handbooks, and design tables - selection of structural members. F.

3116 Environmental Control (4) Human physiological response to heat, light, and sound in buildings. Study of climatological factors which affect buildings; introduction to heating, ventilating, and air conditioning. F.

3200 Architectural Design II: Concepts (6) Building concepts, forms, and functions studied through development and presentation of designs for buildings of moderate complexity. Preliminary structure, materials choice, energy considerations, and environmental siting. Solution to issues of site and context. Complete sketches, drawings, and models at site and building scales required. Prereq: 3100. W.

3214 Structures in Masonry and Concrete (4) Introduction to analysis and design of simple reinforced concrete and masonry structures based upon specific loading conditions. Use of construction and building codes, handbooks, and design tables. Prereq: 3114. W.

3216 Mechanical Systems in Architecture (4) Consideration of the role of building systems in relation to program use. Preliminary structure, materials choice, energy considerations, and environmental siting. Solution to issues of site and context. Complete sketches, drawings, and models at site and building scales required. Prereq: 3116. W.

3217 Materials and Processes of Construction (4) Architectural materials and their use in building construction. W.

3300 Architectural Design III: Details (6) Design concepts developed in detail, with consideration of alternative structural and environmental systems. Full-scale detail study exercises. Drawings and models showing development and design of overall building design. Prereq: 3320; coreq: 3317. S.


3317 Structural and Mechanical Applications (4) Analysis and selection of structural and mechanical systems in specific courses. Study to integrate technical information into a unified design solution. Prereq: 3316 and 3316; coreq: 3390. S.

3910 Research Methods for Designers (3) General introduction to variety of research methods and technology.
niques available to designer and appropriate for un-
covering basic user requirements during design pro-
3930 Behavioral Approaches to Environmental De-
sign (3) Major concern in the lecture content of this
course is the effect of the built environment on human
behavior. Particular emphasis will be placed upon the
role of environmental factors in human development,
learning, adaptation, stress and satisfaction, recrea-
tion behavior, and life-cycle functions. Studio problems
will explore the design of environments for children
and environmental supports for various types of physi-
cal disabilities for people of all ages. Prereq: Consent of
instructor.
3940 Behavioral Approaches to the Design of
Prosthetic Environments (3) Many standard features
of the built environment are unsuitable to the everyday
functioning of individuals with various types of physical
disability; study of architectural barriers in relation to
the physically handicapped constitutes the course
text. Examples of barrier-free environments and design of
disability-specific environments and behavioral supports.
Prereq: 3930 for non-architecture students.
4000 Service Practicum (0) A non-credit internship
for minimum of 3 months duration to be completed
prior to fifth year. E.
4100 Advanced Architectural Design I (6) Large-
scale buildings. Program, form, and structure are stud-
ed to establish appropriate image which resolves the
simplest complex use and context requirements. Prereq: 3300.
4101 Community Form (3) Patterns of community
development and issues and exemplary design approaches
through lecture, readings, sketches, and models. Prereq:
3116. F.
4116 Acoustics, Communication, and Transporta-
tion in Buildings (3) Principles of acoustics design for
buildings, including spaces for speech and music.
Methods of vibration and noise control. Equipment for
communication. Vertical transportation. Miscellaneous
equipment. Prereq: 3116. F.
4200 Advanced Architectural Design II (6) Design at
community scale, emphasizing attention to patterns of
community design in response to use requirements and
the physical environment. Consideration for sense of
place, energy conservation, land use, access and cir-
culation, spatial form and character, studied through
diagrams, sketches, drawings, and models. Course
sections may be housed in off-campus locations.
Prereq: 4100 and 4101. W.
4213 Professional Practice I (3) Principles and meth-
ods of economics and management for architectural
offices: project production, cost analysis, budgeting,
ofices, sales of architectural services, both basic and
management. Prereq: 4213. F, W, S.
4300 Advanced Architectural Design III (6) Design of
prototypical projects in larger community settings,
with attention to site character, building designs, and
site issues and requirements. Verbs of comprehensive
development. Course sections may be housed in off-
campus locations. Prereq: 4200. S.
4313 Professional Practice II (3) Legal responsibili-
ties of architects: contract documents, contract admin-
istration, codes and zoning regulations, liability, and
insurance. Prereq: 4213. F, W, S.
4400 Independent Design Studies (6) Individual de-
sign projects under faculty direction. May be repeated.
Maximum credit 12 hours. E.
4410 Forensic Studies (6) Research and design pro-
jects conducted in various locations abroad. F, SU.
4415 Urban Design (6) Appropriate community form
and urban design frameworks responding to specific
community conditions and aspirations. Off-campus
field trips.
4420 Architectural Design Innovation (6) Design
projects emphasizing investigation of experimental ap-
proaches to architectural design. Consideration of new
building technologies, innovative design concepts or alterna-
tive design methods.
4423 Architecture and Preservation (6) Rehabilitation,
restoration, and adaptive uses of existing build-
ings.
4440 Development and Design (6) Design conse-
quences of feasibility studies, economics, finance,
marketability, environmental impact, and social con-
siderations in development of real property.
4445 Design Service in Communities (6) Studies
conducted under direction of architect or expert in an
allied profession, in service to public service organiza-
tions or agencies of government, and public groups.
Off-campus locations.
4450 Working Drawings (6) Preparation of detailed
working drawings, specifications, and other docu-
ments for typical architectural projects.
4460 Energy Efficient Design (6) Architectural de-
sign studies emphasizing detailed consideration of
specialized energy conservation techniques.
4480 Structural Innovations (6) Building design with
innovative structural configuration and technology. May
be repeated. Maximum credit 12 hours.
4481 Architecture-Engineering Laboratory (6)
Large scale architectural projects of complex nature
with emphasis on engineering systems. Directed re-
search application of new structural concepts. Consider-
ations of prototype buildings, theoretical and practical
issues and exemplary design approaches through lec-
cure, readings, sketches, and models. Prereq:
4500. W.
4600 Comprehensive Architectural Design Project
(6) Development of design for complex buildings with
attention to clarity of concept. Search for appropriate
form and structure, technical requirements and design of
details. Full complement of visual and written
presentations which support students' arguments for
design concept and its development. Required review
by faculty representing all areas of the architectural
program. Prereq: 4501 and satisfactory completion of
all required hours in design courses. S.
4731-32 Earthquake Resistant Structure I, II (4, 4)
Analysis and design of structures to resist earthquake
effects. Earthquake phenomena. Vibration of single
degree structural systems. Resonance and dampen-
ing. Introduction to dynamic analysis of structures.
Instrumentation and structural response. Frame and
shear wall behavior. Ground frets, interaction. Prereq:
Consent of Instructor. (Same as Civil Eng. 4731-32.)
4801 American Architecture I (3) Development of
North American architecture from arrival of immig-
igrants in 1607 until 1860. W.
4802 American Architecture II (3) Stylistic periods
from the Gothic Revival through the twentieth century.
S.
4803 Oriental Architecture (3) The eastward expan-
sion of the Fertile Crescent to the Indus Valley, Hindu,
Buddhist, and Muslim architecture in India. Architec-
ture in China and Japan from the earliest beginnings.
A.
4804 The International Style (3) Architecture of the
International Style 1922-1932 with antecedents and
expressions of Utopian movements.
4805 Indian Architecture (3) Study of worldwide
"anonymous" architecture reliant upon climatic condi-
tions, availability of materials, and economic level of
people. Examples from prehistoric structures through
twentieth century vernacular. A.
4806 History of Architectural Technology (3) Build-
ing materials and construction techniques from antiqui-
ty to the present. A.
4807 Japanese Architecture (3) History of settle-
ment patterns and building in Japan. F.
4808 History of the City (3) Examination of historical
change in urban form and design. Survey. Case stu-
dies.
4809 Literature of Architecture (3) Survey of archi-
tectural writing. Relationship between literature and
design.
4810 Aesthetics in Architecture (3) Philosophies of
art underlying the practice of architecture. F, W, S.
4811 Special Topics in History, Theory and Criti-
cism (1-4) Topics of special interest for advanced
students. May be repeated. Maximum credit 6 hours.
4812 East European Architecture (3)Twentieth cen-
tury architecture in Russia, Czechoslovakia, Poland,
Hunary, East Germany, Rumania, Bulgaria, Yugosla-
via.
4813 Medieval Architecture (3) History of architec-
ture from the decline of Rome to the beginning of the
Renaissance. A.
4814 Forms of Utopia (3) Ideas and architectural
expressions of Utopian movements.
4815 Criticism Seminar (3) Theories, function, and
techniques of architectural criticism. S.
4816 Architectural History (3) History of archi-
tecture which illustrates technological, political, and
anthropological assumptions of some nineteenth and twentieth
century architects.
4817 Architecture since 1945 (3) Recent architectur-
al developments and views of the future. F.
4820 Special Topics in Architecture (1-4) Individual
projects under faculty direction. Credit adjusted to
project complexity and level of effort. May be re-
peated. Maximum credit 6 hours. E.
4821 Design Methods (3) Application of general
systems theory and other methods to architectural
design. Research discipline and scientific method con-
sidered.
4825 Current Issues in Architecture (3) A review of
emerging approaches to design, their underlying prin-
ciples and background in recent practice. E.
4830 Introduction to Preservation (3) History and
theory of architectural preservation and restoration. F.
4831 Preservation Technology (3) Techniques of
preservation: dating, methods of analysis, history of
materials and technology used in old buildings. W.
4832 Descriptive Analysis of Historic Buildings (3)
Identification and analysis of characteristic elements
of buildings from various architectural periods, with
emphasis on American architecture. Survey tech-
niques. S.
4833 Preservation Law (3) Legal aspects of contem-
porary preservation activity.
4840 Project Management (3) Principles, methods,
and application of project management to the total
building process. Project manager function, responsi-
bilities, and activities investigated through case stu-
dies, job history reviews, and project simulation.
4841 Construction Management (3) Principles,
methods, and application of construction management
to the total building process. Project manager function,
responsibilities, and activities investigated through case
studies, job history reviews, and project simulation.
4842 Marketing Architectural Services (3) Market-
ing of architectural practice by study of cases, theo-
ries, public relations procedures, and understanding
sales of architectural services, both basic and com-
prehensive. F.
4843 Contract Documents (3) Analysis and theory
of contract documents by application of production tech-
niques and procedures.
4844 Advanced Contracts (3) Study of contractual
problems relating to architect, owner, contractor, and
subcontractor.
4845 Codes and Zoning (3) Theory, review, and
research of city, county, state, region, and national
codes and zoning. History and development of fire
safety and building codes; history and development of
zoning emphasizing architect's responsibility as re-
lated to specific project application.