

School of Architecture

Limited Access Program

The School of Architecture is a professional school committed to preparing its graduates for excellence in the practice of architecture. All students who wish to become creative and active leaders in the field are welcomed to the School's programs.

Admission to the School is by formal application. All applications are evaluated individually on the basis of the applicant's academic achievements. Additional consideration may be given for work experience in the field of architecture, design and graphic ability evidenced in a portfolio, and written and oral communication skills. *As a limited access program with a fixed facility, admission to the School is competitive.*

Applications will be considered according to the following calendar:

Summer Semester admission Applications received by February 1.

Fall Semester admission Applications received by May 1.

Spring Semester admission Applications received by November 1.

Late applications are considered on a space-available basis.

Faculty

Faculty Professors: Dozier, Richard; Knight, Roy F.; Grondzik, Walter; Mann, Thorbjorn; Martineau, Thomas; Shaeffer, Ronald E.; White, Edward T.; Wright, Rodner B., Dean

Associate Professors: Alfano, Michael; Dombek, George; Grey, Keith, H.; Huffman, Craig D.; Ots, Enn E.; Peterson, Larry L.; Pugh, Thomas; Robles, Eduardo; Sanchez-Del-Valle, Carmina; Smith, Glen, Interim Director of Landscape Architecture; Stone, Peter D.; Wells-Bowie, LaVerne

Assistant Professors: Chin, Andrew; Goodwin, Valarie (visiting); Lewis, Elizabeth (visiting); Lumpkin, Ronald

Research Associate: Goodwin, Robert; McCalman, Judy; Shrestha, Pamela; Wiencke, William R.

Assistant in Architecture: LaGrasse, Deborah

Librarian: Williams-Smith, Jeneice

Accreditation

The School of Architecture offers the National Architectural Accrediting Board (NAAB) accredited Bachelor and Masters of Architecture degrees as well as the pre- and post-professional Bachelor of Science in Architectural Studies and the Master of Science in Architectural Studies degrees. The four-year pre-professional Bachelor of Science Architectural Studies (B.S.) degree of FAMU School of Architecture, is not accredited by NAAB. This pre-professional degree is preparation for either continued education in the professional degree programs or, secondarily, for employment options in architecturally-related areas. The Bachelor of Architecture (B.Arch.), which requires a minimum of five years of study and the Master of Architecture (M. Arch.), which requires a minimum of two years of study follow a related pre-professional bachelor's degree. The professional degrees are structured to educate those who aspire to architectural registration/licensure.

Degree Programs

The School of Architecture offers professional and pre-professional programs at the graduate and undergraduate level. The professional program confers an accredited Bachelor of Architecture or an accredited Master of Architecture degree. The successful completion of either degree qualifies the graduate to pursue licensure as a registered professional architect.

A. Bachelor of Science in Architectural Studies (B.S.). The pre-professional program leads to a Bachelor of Science in Architectural Studies. It is divided into pre-architecture (years one and two, or lower division) and architecture (years three and four, or upper division). The curriculum for the B.S. program provides a basic education in architecture and the built environment and includes requirements in mathemat-

ics, physics, social sciences, and humanities. Course sequences in architecture include architectural design, history and theory, structures, environmental technology, and philosophy.

Freshman Admission-In addition to the university requirements for admission, a freshman who wishes to be considered as an architecture major must have achieved a minimum GPA of 2.50 in academic course work and a 900 on the SAT, or 1010 on SAT1, or 19 on the ACT, or 21 on the E/ACT. Applicants with lower scores may be considered on a space available basis. The university admits qualified applicants to the pre-architecture program of the Bachelor of Science in Architectural Studies program.

Admission to the Upper Division of the Architecture Program-All students from Florida A&M University, Florida community colleges, or other lower-division pre-architecture programs, must apply for admission to the upper-division program. Each applicant is evaluated individually. The eligibility requirements include an overall 2.50 GPA, a minimum 2.50 GPA in all architecture courses, completion of all lower-division courses, and CLAST. Previously earned college credit may be transferred if equivalent courses are offered at Florida A&M and the student has earned a grade of "C" or better. All previous design work is also evaluated for admission to upper division.

No credit for architecture course work will be granted if it was completed at a vocational-technical school or institute. If appropriate, other course work may be used toward general education requirements or elective credits. Applicants must send curricula and course descriptions to the School of Architecture for evaluation. Only those transfer applicants who have received an Associate of Arts degree from a pre-architecture program with approved articulation will be considered for direct admission at the third-year level. Others who wish to begin the study of architecture must consult an advisor in the School of Architecture.

B. Bachelor of Architecture (professionally accredited program): The Bachelor of Architecture (B.Arch.) program is designed to prepare students for the traditional practice of architecture and focuses on key areas of fundamental professional competence such as design, practice, and technology. The B.Arch. involves in-depth instruction in programming, the preparation of a program report, and the design of a terminal project.

Admission to the Professional Bachelor of Architecture Program-At the fourth-year level the student's progress is reviewed for advancement to the fifth year. To advance, a GPA of 2.75 in all upper-division course work is required, as well as completion of all courses in the first four years of the program. A review of prior design work is also required for admission. At the successful completion of the fifth year, the student receives, by faculty vote, the professional Bachelor of Architecture degree. Students may transfer into the fifth-year program from other schools if they meet the requirements and have successfully completed the equivalent of Florida A&M's Bachelor of Science in Architectural Studies degree.

Students in the fourth year also have the option of applying for the Bachelor of Science in Architectural Studies degree. This degree establishes basic eligibility to for the two-year professional Master of Architecture degree. For additional information, refer to the University Graduate Catalog and School of Architecture Graduate Handbook.

C. Master of Architecture (professionally accredited program): The Master of Architecture degree program is designed for a student with a four-year, non-accredited degree in architecture who wishes to earn an advanced professional accredited degree which also qualifies him or her to pursue the license to practice. The program prepares the student to practice architecture and provides opportunities to acquire additional skills in areas of specialization in the School. The Master of

Architecture (M.Arch.) is intended to prepare students for leadership roles in the profession. Emphasis is placed upon student freedom to pursue an investigation of personal interest consisting of in-depth inquiry into design and practice issues.

Admission to the Professional Master of Architecture Program—To be admitted to this degree program, applicants must have a Bachelor of Science in Architectural Studies or an equivalent degree. Applicants with an equivalent degree but are missing course work in areas covered by the Bachelor of Science in Architectural Studies at Florida A&M University may be required to add this course work to the Master of Architecture requirements. A 3.00 GPA in the last 60 hours of course work or a combined score of 1000 on the GRE, and a portfolio are also required.

D. Master of Landscape Architecture: The Master of Landscape Architecture (MLA) program is offered as a first professional graduate degree for students entering with non-design backgrounds. The curriculum requires a total of ninety credit hours, which includes a terminal thesis project. The MLA is also offered as a second professional degree to students holding previous design degrees from the fields of landscape architecture or architecture. A total of sixty credit hours, which includes a terminal thesis project, is required. The MLA program's area of focus deals with innovative design, planning and preservation issues relative to rural, suburban and urban communities. The sustainability of the natural environments that are within and that surround these communities is also an emphasis of study.

Admission to the Master of Landscape Architecture Program—To be admitted to this degree program, applicants must have an undergraduate degree with a 3.0 GPA in the last 60 hours of course work or a combined score of 1000 on the GRE.

E. Master of Science in Architectural Studies: This program is for students who want to do graduate work in the School's areas of emphasis, and do not wish to earn a professional degree for licensure. Applicants may already have an accredited architecture degree or may have a degree and/or background in another field. Students from fields other than architecture may be required to take selected undergraduate courses as preparation for their graduate work in architecture. For more information on each of the graduate programs, refer to the University Graduate Catalog or write to: Coordinator, Graduate Programs, Florida A&M University, School of Architecture, Tallahassee, Florida 32307-4200.

Portfolio Requirement

From the first year, every student is required to prepare and maintain a portfolio of work, updating it each year to remain current. This important documentation of student work forms a valuable aspect of the School's advising program. Professional quality presentation is required. The portfolio is reviewed for admission to upper-division, the Bachelor of Architecture program, Master of Architecture program, and may be required for advisement at every level of advancement. In addition, the portfolio is useful for obtaining internships and, upon graduation, a professional position.

Academic Progress and Retention

Undergraduate Programs—Retention and progression in the undergraduate programs at the School of Architecture require a grade of "C" or better in all courses in the curriculum. Once established as a pre-architecture major and upon completion of all 1000-level architecture course work, it is advised that a student maintains a 2.50 GPA in architecture courses to progress to upper division. Students in upper division are advised to maintain a 2.75 GPA in architecture courses to progress to the Bachelor of Architecture program or a 3.0 GPA in architecture courses to progress to either of the graduate programs.

Graduate Program—A graduate student is required to maintain a grade point average of 3.00 ("B") or higher. Failure to maintain the required average could result in termination of a student's graduate status. For Master of Architecture and Master of Science in Architectural Studies curricula, refer to the University Graduate Catalog.

Center of Excellence

Recognizing the need for more architects to be educated in the State of Florida, the State University System founded the School of Architecture at Florida A&M University in 1975. In 1978, the State University System selected one "Center of Excellence" on each of its nine

state campuses. Each of these programs received additional funding, and at Florida A&M, the School of Architecture received this distinction.

Faculty and Students

The faculty is a distinguished group of people with an exceptional range of interests and talents. In addition to teaching, faculty members engage in research and professional development in energy conservation, structural systems, environmental education, low-cost housing, building use programming, architectural communications, and computer-aided design. The faculty-to-student ratio allows close student contact with the faculty and personal academic advisement. Students in the School of Architecture form a highly diverse group of individuals with a wide range of backgrounds and knowledge. Coming from all over the World, some students enter the School of Architecture as high school graduates; others come as transfer students or second-degree candidates. Students are encouraged to become involved in organizations such as the school chapter of the American Institute of Architecture Students (AIAS), the National Organization of Minority Architects (NOMA), and Alpha Rho Chi. The School also has a chapter of Tau Sigma Delta, the architecture honor society. Student participation in these organizations provides a valuable service to the School as well as an important leadership-learning experience for members. There is also a Dean's Council in the School, made up of elected student representatives from every level of the program. The Council works closely with the Dean on all matters of interest to students.

Building and Equipment

Since January 1985, the School has been housed in a building designed to reflect the quality of its programs. The building has an architectural resource center that offers a complete range of resources, sophisticated laboratories for student use, exhibition space for national and international shows and student displays, and indoor and outdoor areas for student gatherings. The School of Architecture has its own computer laboratory which is freely accessible to all students. The lab is used for instruction and research in the application of computers to architecture. Science and technology laboratories are used for instruction and research in environmental controls and structures. Equipment is available for energy analysis and studies of the climate and the physical environment. A model-building and construction laboratory is equipped for presentation modeling, three-dimensional space analysis, and experimental construction studies. An \$11-million dollar expansion/renovation of the building is scheduled to be completed by Fall 1999.

Research in Architecture: Institute for Building Sciences

The Institute for Building Sciences (IBS) has served as the research and continuing education component of the Florida A&M University School of Architecture since 1981. Since that time, IBS has sought useful, high-quality research contracts from sources in the public and private sectors, both nationally and internationally. This work has ranged from statistical surveys, analytical studies, and other investigations to laboratory-intensive evaluations of building materials and construction methods. In addition, IBS has conducted numerous symposia, workshops, seminars, and conferences for design professionals, contractors, developers, manufacturers, public officials, and others involved in the design, construction, and management of buildings. All projects conducted by the Institute involve faculty members and students.

Special Programs and Events

The faculty and administration of the School of Architecture believe that the student's education is greatly strengthened by visiting critics and lecturers. Distinguished architects and designers are invited to give a broad range of views on current architectural thought and practice. In addition to lecturing, visitors are asked to spend additional time with students discussing potential career opportunities. A new guest lecture series is offered each semester. Many Special Study courses are offered at the School. These result from interests of students and faculty and have included such topics as graphics, energy, structures, film, and architectural education for children. Located in Florida's state capital, the School realizes special opportunities to work with many state and federal agencies and to be active in helping to establish gov-

ernmental policies affecting architectural education. Local practicing architects and designers are also important assets to the School. They participate in student project reviews, part-time teaching assignments, and providing work experience for students. The School participates in an off-campus study center located in Alexandria, Virginia, near Washington, D.C. Many students will spend up to two semesters in residence at this major urban setting. The center is part of a consortium of domestic and foreign schools of architecture. Student field trips are encouraged and sponsored by the School. Students have traveled as a class to enhance the curriculum to selected sites around the United States, the Caribbean, Canada, Mexico, Jamaica, and Italy.

Financial Aid

A variety of financial aid sources are available to the student, including federal and state loans, grants, and scholarships. Financial aid is not awarded by the School of Architecture. Application must be made to the university. Students are encouraged to file financial aid forms as early as possible prior to the scheduled deadlines. For more complete information and forms, write to: Financial Aid Office, Room 101 FHAC, Florida A&M University, Tallahassee, Florida 32307.

Curriculum Guides Bachelor of Science in Architectural Studies and Bachelor of Architecture

Freshman Year	Sem. Hrs.
ENC 1101, 1102 Freshman Comp. I, II	6
MAC 1133, Algebra & Trigonometric Functions	3
ARC 1211, Building Arts	3
ARC 1301,1302, Design 1.1, 1.2	8
MAC 3311, Calculus I	4
Elective	3
	27

Sophomore Year	Sem. Hrs.
AMH 2091 Introduction to African-American History	3
ARC 2201 Theory of Architecture	3
ARC 2303 2304 Architectural Design 2.1, 2.2	8
ARC 2472 Introduction to Technology of Architecture.	3
ARC 2501 Architectural Structures I	3
ARC 2701 Architectural History I	3
PHY 3004 Elements of Physics I	4
Natural Science Elective	4
Social Science Elective	3
	34

Junior Year	Sem. Hrs.
ARC 2171 Introduction to CADD	3
ARC 2702 Architectural History II	3
ARC 3208 History/Theory Seminar	3
ARC 3324 3325 Architectural Design 3.1, 3.2	10
ARC 3463 Materials & Methods of Construction	4
ARC 3551 Architectural Structures II	3
ARC 3682 Environmental Technology II	4
	30

Senior Year	Sem. Hrs.
ARC 4319 Design Analysis	3
ARC 4341, 4342 Architectural Design 4.1, 4.2	10
ARC 4562 Structures III	3
ARC 4683 Environmental Technology III	4
Architectural Elective	3

Non-Architectural Elective	6
	29
Total B.S. Architectural Studies	120
Fifth Year	Sem. Hrs.
ARC 5286, 5288, Practice I, II	6
ARC 5352, 5353, Architectural Design 5.1, 5.2	12
ARC 5910, Architectural Research	3
Architectural Elective (5000-6000 level)	6
Non-Architectural Elective	3
	30
Total Bachelor of Architecture	150

Course Descriptions

ARC 1211 Building Arts (3) Introduction to architecture as a career and field of academic study. Relationship to other design professions, roles of the architect in society, and purpose and functions of the profession are general topics for discussion and exploration. Open to non-architecture students and fulfills Humanities requirement.

ARC 1301 Design 1.1 (4) This course is the first of the architectural graphics/design studio series which introduces theory, basic two- and three-dimensional design and graphic fundamentals which are used in creating architecture. Through a series of projects, the student explores the arrangement of mass, space and light to communicate human values. Emphasis is placed on the development of verbal and visual communication skills.

ARC 1302 Design 1.2 (4) Application of two- and three-dimensional design principles learned in preparation for whole building design. This course introduces formal architectural theory and reinforces graphic fundamentals needed in creating and communicating architecture.

ARC 2171 Introduction to Computer-Aided Design and Drafting (CADD) (3) Introduces students to the use of digital media for architectural design through specific drawing and modeling applications. The computer as a concept, the computability of design, and computers as design/modeling tools are areas of emphasis. Generation, manipulation, and reproduction of two-dimensional and three-dimensional architectural models using digital media is stressed.

ARC 2201 Theory of Architecture (4) An introduction to contemporary architectural theories, their evolution and their historical basis.

ARC 2303 Design 2.1 (4) This course is a bridge from the abstract principles of the first-year studio to the design of buildings in the third year. This course introduces fundamental ideas and techniques directed toward the development and understanding of the design process and an architectural vocabulary. Study involves consideration of internal programmatic issues such as the impact of architectural theory and history, function, human behavior, circulation, environmental factors, and how structures and materials influence form.

ARC 2304 Design 2.2 (4) This course introduces small building projects and the impact of programmatic responsibilities to the design agenda. Design problems are designed to synthesize the internal programmatic issues of Design 2.1 and programmatic issues external to the building such as site and context, climate, structure, enclosure systems, resolution of form, and space and place making.

ARC 2470 Introduction to the Technology of Architecture (3) Basis for upper-division courses in structures, environment technology, and materials and methods of construction. This course introduces themes that cut across these technology areas, such as the response of buildings to the natural and built environments, strength and durability in building materials, and quantitative methods of analysis and design of building assemblies and support systems.

ARC 2701 History of Architecture I (3) A critical exploration of the history and theory of architecture from antiquity through the end of the 13th century. This course examines the making and intent of significant buildings and sites tracing the developments that have given meaning to the built environment and brought order to the tectonics of architecture. Open to non-architecture students and fulfills Humanities requirement.

ARC 2702 History of Architecture II (3) A critical exploration of the history and theory of architecture from the 14th century to the

present. This course examines the making and intent of significant buildings and sites tracing the developments that have given meaning to the built environment and brought order to the tectonics of architecture.

ARC 3208 History and Theory Seminar (3) An in-depth study of critical positions in 20th century architectural thought. Emphasis is on the personal development of theories that explore the poetic and tectonic dimensions of architecture.

ARC 3324 Design 3.1 (5) This first course of the upper division studio sequence focuses on the relationship between small buildings and their urban or rural settings including consideration of topography, vegetation, climate, program, and physical and cultural context. This course is intended to develop competencies in building massing, spatial shape and sequence, the relationship between interior space and the exterior environment, placement of structural support, and the form of building enclosure.

ARC 3325 Design 3.2 (5) Topical studio. Students select from various topics offered by design faculty. Design issues include meaning/language/imagery; scale; ordering principles; context; color/texture/shape; solid/void relationships; understanding of and integration of structural and mechanical systems, construction processes and materials; introduction of legal and site constraints, and user/client needs.

ARC 3463 Materials and Methods of Construction (4) Technical principles governing the construction and behavior of building enclosure in the design process. Principles framed within the context of issues important to present and anticipated future built environment.

ARC 3551 Arch Structures II (3) Structural analysis and behavior. Determinate structural systems. Design of timber and steel elements.

ARC 3682 Environmental Technology II (4) Mechanical systems: thermal comfort, indoor air quality, active and passive climate control approaches, energy utilization, fire protection, sanitation systems. Technical problems associated with providing quality environments for human habitation.

ARC 4319 Design Analysis (3) Survey of the relationship between the design disciplines (specifically, design in architecture) and general science, planning, art, and other human modes of knowing and interacting with reality. The course aims at increasing student understanding of the concepts of design, planning, creativity, science, art, philosophy, and their role and relationship to architectural design. Conceptual frames of reference for the discussion of the essence, concerns, aims, methods, and prerequisite knowledge and skills needed for designing. Rationality vs. intuition, objectivity vs. subjective judgment, and objectification in design are discussed. Methods and techniques for improving skills of problem analysis and problem-solving, creativity, critical thinking and judgment, evaluation, communication about design problems, information-gathering and analysis, dealing with design dif-

ficulties, and negotiation and conflict resolution.

ARC 4341 Design 4.1 (5) Comprehensive design of buildings on urban sites. This course stresses the role of material systems in creating the space, surface, and sensual qualities of buildings, and on the interaction of these systems with urban site, context, and support and service networks. Design projects focus on buildings of modest size and a limited palette of materials and structural systems.

ARC 4342 Design 4.2 (5) Comprehensive topical design studio. Students select from various topics offered by design faculty. Issues include the nature of materials, architecture as construction; evolution of thought: 'what does the building want to be'; landscape as an architectural element to define space; exploration of the relationship of invention and the tradition in making architecture with an emphasis on place making principles, archetypes, precedent, translation and interpretation; morphology of vernacular construction, parti, and climatic response; integration of structural, mechanical systems and materials into the design process as integral elements in creating space and form; and refinement of graphic and modeling skills.

ARC 4562 Arch Structures III (3) Indeterminate structures and analysis and design of reinforced concrete elements and systems. Fundamentals of pre-stressed concrete, lateral forces, and resisting systems.

ARC 4683 Environmental Technology III (4) Daylighting and electrical lighting, architectural acoustics, electrical and communications systems, and mechanized circulation systems. Technical problems associated with providing quality environments for human habitation.

ARC 5286 Practice I (3) This survey course examines the methods and processes related to procuring and delivering projects in an architectural practice. Course content includes the history of architectural practice, legal forms of association, project procurement, design and construction delivery systems, project management, bidding, contract negotiation processes, construction administration, and cost management. Hands-on use of the computer will be emphasized.

ARC 5288 Practice II (3) This course investigates the evolution of architectural practice and the role of the architect from a historical and contemporary point of view. Emphasis is placed on the current state of practice and its relation and obligations to the community, the marketplace and the profession. This course explores the varied contexts in which architects have negotiated, conceived and executed professional services from antiquity to the present. A major intent of the course is to explore professional ethics as related to architectural practice and in assessing the architect's obligation and relationship to the community.

ARC 5332 Design 5.1 (6) B. Arch. admission. Comprehensive design exploring potentials for building urban sites.

ARC 5353 Design 5.2 (6) Terminal design project. Comprehensive development of a building design, usually based on results of work in ARC 4319.

ARC 5910 Arch Research (3) Program development and exploration of design issues related to a terminal design project.