

School of Architecture and Urban Design

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Lawrence, KS 66045-7614, www.saud.ku.edu

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School of Architecture and Urban Design

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Architecture

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Professors: Diaz, Grabow, Lesnikowski, Major, Mayo, Newton, Pran, Rockhill, Spreckelmeyer

Professors Emeriti: Griffin, Kahn, McCoy

Associate Professors: Barrière, Carswell, Criss, Gore, Jackson, Luckey, Padget, Richardson, Sander, Sanguinetti, Swann

Assistant Professors: Chang, Corser, Huppert, l'Heureux, Ramaswami

The School of Architecture and Urban Design is anticipating changes to graduate studies in architecture. For information about current degree programs, contact www.saud.ku.edu or (785) 864-4281.

The Program

Graduate study in architecture at KU leads to the Master of Architecture (M.Arch.) degree. There are three distinct plans of study, depending on the student's educational background:

1. A **professional** degree for a student with an undergraduate degree in any field, including architecture.
2. An **academic** degree for a student with an undergraduate degree in architecture or a related discipline.
3. A **post-professional** degree for a student with an undergraduate degree in architecture or a related discipline and some construction industry experience.

The first course of study leads to a **professional** degree that prepares the student to enter an architectural apprenticeship in the office of a licensed architect. A student with any undergraduate degree including architecture may enter this program. This degree is accredited by the National Architectural Accrediting Board. To receive the accredited degree, each student must complete seven semesters, over three years, in an approved sequence of architectural design studios, each of which is accompanied by associated professional courses.

According to the National Architectural Accrediting Board, "In the United States, most state registration

boards require a degree from an accredited professional program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on the extent of its conformance with established educational standards.

"Master's degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree."

The second course of study is an **academic** program on the Lawrence campus. It is for the student who is interested in exploring various approaches in analyzing the built environment. A student with an undergraduate degree in architecture or a related discipline may enter this course of study. To receive the master's degree, each student must complete an academic or design-related project or must take a comprehensive exam at the end of the plan of study.

The third course of study is the **architectural management post-professional** program, on the KU Edwards Campus in Kansas City. This course of study gives the practitioner an understanding of management issues in the design process. It is structured to be completed on a part-time basis.

Facilities

The School of Architecture and Urban Design is housed in **Marvin Hall** on the central KU campus in Lawrence. First built in 1907, Marvin Hall was completely renovated and remodeled in 1979-80 and has received design awards from the Kansas City Chapter of the American Institute of Architects and the Kansas Preservation Alliance. Marvin Hall houses a Building Technology Laboratory, an Illumination Laboratory, Computer Laboratories, an Acoustics Laboratory, a Construction Management Research Laboratory, a Wood and Metal Shop, and a Photographic Laboratory. The **Architectural Resource Center** in Marvin Hall consists of a reading room and a slide library. The reading room contains architectural references, subscriptions to domestic and foreign journals, two periodical indices, and approximately 1,000 back issues of various periodicals. The slide library contains more than 85,000 architectural slides. The privately financed reading room provides a quiet study space and ready

Photo, page 76:
Second-year M.Arch. students work on a project that rethinks domestic environments based on movement and use. Photo by Cynthia Muckey.

reference material for architectural design students. The Architectural Resource Center complements KU's Art and Architecture Library in Spencer Art Museum.

Additional facilities are available in Snow Hall and Marvin Studios. Marvin Studios, the historic Broadcasting Hall built of rammed earth blocks, was renovated in 2004 and houses additional studios, offices, and research laboratories. Architecture facilities in Snow Hall include offices, studios, a jury room, wood shop, and a computer lab.

Admission

Students who wish to practice as licensed architects should apply to the professional, NAAB-accredited Master of Architecture program.

Students who do not have an accredited first professional degree in architecture and do not intend to become licensed architects but are interested in the study of architecture at the graduate level (either for academic or related professional reasons) may apply for admission to either the academic or post-professional program. Depending on the student's previous background, he or she may, at the discretion of the faculty, be required to take basic skill courses in addition to the regular plan of study.

Regardless of background or career goals, a person whose previous records indicate the ability to succeed with advanced work may be admitted to the Graduate School through one of the graduate programs. Admission requires a bachelor's degree and a grade-point average of 3.0 from KU or another accredited institution or foreign university with substantially equivalent requirements for the bachelor's degree. The Graduate School reviews the student's academic background before admitting a student without a bachelor's degree as a degree-seeking graduate student at KU. A complete application for admission consists of the following materials:

1. Graduate School application form.
2. Two copies of official transcripts from all colleges or universities attended, showing receipt of a bachelor's degree.
3. Three letters of recommendation from persons qualified to comment on the applicant's intellectual abilities and probable success in graduate study.
4. Application fee, nonrefundable check or money order payable to the University of Kansas. See Admission in the General Information chapter of this catalog for further information.
5. Evidence of language proficiency if the native tongue is not English, including
 - (a) A degree from an English-language college or university or
 - (b) A Test of English as a Foreign Language score of 600 (paper-based) or 250 (computer-based) or higher, with no less than 57 on each part.
6. A statement of interest indicating the applicant's career goals and the relationship of these goals to the specific option chosen.
7. A brochure of design work if the applicant's previous degree was in a design discipline or samples of written work if the previous degree was outside the design discipline.

In most cases, candidates are interviewed by telephone or in person as part of the application process.

The School of Architecture and Urban Design is anticipating changes to graduate studies in architecture. For current information, contact www.saud.ku.edu or (785) 864-4281.

The Master of Architecture degree offers options on the Lawrence campus or on the KU Edwards Campus.

Application fees: Domestic students in Architecture: paper \$55, online \$55. International students in Architecture: paper \$60, online \$55.

Submit your application to the Graduate School online at www.graduate.ku.edu. Send original transcripts of all completed college and university course work to

**The University of Kansas
Graduate Application Processing Center
1450 Jayhawk Blvd., Room 313
Lawrence, KS 66045-7535**

Send all other requested application materials to

**The University of Kansas
School of Architecture and Urban Design
Marvin Hall, 1465 Jayhawk Blvd., Room 206
Lawrence, KS 66045-7614**

The Master of Architecture degree offers options on the Lawrence campus and on the KU Edwards Campus:

**The University of Kansas Edwards Campus
12600 Quivira Rd.
Overland Park, KS 66213-2402**

Telephone (from Lawrence): 864-8400 or (913) 897-8400, <http://edwardscampus.ku.edu>

1. Professional Master of Architecture

A student who wishes to pursue a professional career as a licensed architect may apply for admission to this program. Degree requirements conform to the standards established by the National Architectural Accrediting Board, and students who have successfully completed course work in an approved NAAB curriculum may achieve advanced standing. All requests for advanced standing are evaluated using the minimum qualifications for graduate study at KU, curricular standards established by the NAAB, and procedures approved by the architecture program graduate studies committee. This degree requires a sequence of seven semesters of architectural design studio, each of which is accompanied by associated professional graduate courses. One semester of architectural design must be taken in an approved studio setting in a foreign country. Currently, students in this program spend a summer session in Siena, Italy, and Berlin, Germany.

The curriculum is divided into three distinct year levels. Minimum standards for admission and the approved course work for each level are as follows:

Year One: Upper-level Undergraduate and Entry-level Graduate Curriculum. Open to graduates with bachelor's degrees who have completed college course work in physics and calculus and meet the minimum standards set by the Graduate School for admission as graduate students.

Fall Semester: Design Vocabularies (15 hours)	
ARCH 603 Graduate Design Studio I	6
ARCH 613 Visual Thinking Studio I	3
ARCH 626 Building Technology I	3
ARCH 640 History of Architecture I: Ancient and Medieval	3
Spring Semester: Technology (19 hours)	
ARCH 604 Graduate Design Studio II	6
ARCH 627 Building Technology II	3
ARCH 641 History of Architecture II: Renaissance to Age of Reason	3
ARCH 620 Statics for Architects	2
ARCH 621 Strength of Materials for Architects	2
Architectural elective	3

Year Two: Professional Graduate Curriculum. Open to (1) students who have completed all requirements in Year One and meet the standards set by the Graduate School and the architecture program for continuation as graduate students, or (2) graduates with bachelor's

degrees who meet the minimum standards outlined in (1) of this paragraph and who have been approved by the graduate coordinator to advance to this level.

Fall Semester: Site Design (18 hours)

ARCH 703 Graduate Design Studio III	6
ARCH 740 Architecture History/Theory IV	3
ARCH 764 Site Planning	3
ARCH 624 Structural Systems for Architects	3
ARCH 526 Building Power Systems for Architects	1
ARCH 527 Building Interior Lighting for Architects	1
ARCH 528 Building Acoustical Systems for Architects	1

Spring Semester: Human Use (18 hours)

ARCH 704 Graduate Design Studio IV	6
ARCH 665 History of Urban Design	3
ARCH 625 Analysis and Design of Structures for Architects	3
ARCE 561 Building Mechanical Systems for Architects	3
Architectural elective	3

Year Three: Advanced Professional Graduate Curriculum. Open to (1) students who have completed all requirements in Year Two and who meet the standards set by the Graduate School for continuation as graduate students, or (2) graduates with NAAB 5-year bachelor of architecture degrees who meet the standards outlined in (1) of this paragraph and who have been approved by the graduate coordinator to advance to this level.

Summer Session: Urban Space, Siena, Italy; and Berlin, Germany (9 hours)

ARCH 705 Graduate Design Studio V	6
Architectural elective	3

Fall Semester: Practice (15 hours)

ARCH 803 Graduate Design Studio VI	6
ARCH 858 Architectural Management Systems	3
Architectural electives	6

Spring Semester: Design Integration (15 hours)

ARCH 804 Graduate Design Studio VII	6
ARCH 852 Professional Practice	3
Architectural electives	6

Note: Architectural electives in the above curriculum are chosen from the nonrequired courses listed in the four concentrations described in the Academic Graduate program. Students must elect a minimum of one course in each of the four areas.

2. Academic Master of Architecture

This program is offered on the Lawrence campus for the student who is interested in the study of architecture from an academic and scholarly perspective. A student who wishes to pursue graduate study in architecture at KU must submit a statement of intent detailing academic interests and career goals. Because admission depends on the student’s objectives and the faculty’s matching research interests, potential applicants should contact the coordinator before submitting applications. Students from this program have established a strong academic tradition and won honors in national research competitions. The key to their success has been the careful selection of research topics and the ways these topics have paralleled the academic and professional interests of the architecture faculty.

For students admitted to the academic program at the master’s level in architecture in Lawrence, a total of 36 credit hours of course work is required. Each student must enroll in a 3-hour introductory course dealing with research methods and theory and must complete an additional 12-hour core of course work that addresses each of the four areas: (1) history/theory, (2) technology/practice, (3) design/methods, and (4) urban/social issues. In addition to the core courses, each student must complete a minimum of 15 graduate credit hours in a sequence of courses in one of the four concentrations listed above. A minimum of 6 of these hours must be taken in one of the established concen-

trations. With the consent of the student’s adviser and the approval of the graduate studies committee, the student may take a maximum of 12 hours of graduate credit in course work outside the School of Architecture and Urban Design. Six hours in the 36-hour course of study are composed of course work in which the student prepares a written project or thesis, or in additional course work in the student’s concentration to prepare for a final written examination.

The following list describes the four concentrations and provides a sample of courses offered in the recent past in each area. Students should consult the most current course listing provided by the Architecture Program each academic year to determine which courses will be offered each semester.

History/Theory

- Architectural History
- Theory and Context of Architecture
- Readings in Classical Architecture
- Architecture and the Cosmos
- Introduction to Historic Preservation
- Special Topics in Historic Preservation
- American Landscape
- Architecture, Art, and Science
- Current Directions in Architecture

Technology/Practice

- Building Mechanical and Energy Systems
- Construction and Project Management
- Structural Systems
- Architectural Management courses

Design/Methods

- Computer Applications
- Architectural Photography
- Advanced Architectural Presentation Techniques

Urban/Social

- Homeplaces
- History of Urban Design
- Environmental and Land Use Planning
- Housing and Development Planning
- Physical Development Planning
- Transportation Planning

3. Post-professional Master of Architecture

The architectural management program is oriented to the administration and practice of architecture and related disciplines. It is offered on KU’s Edwards Campus in Overland Park. Studies in this program are intended to

1. Provide skills and knowledge necessary to become effective participants in the management of an organization;
2. Provide information about the management of planning, design, and construction projects; and
3. Expose students to management issues facing the design professions.

The curriculum draws on the disciplines of business management, planning, computer science, law, and architecture to expose students to fundamental concepts of management as they relate to the business of architecture. A total of 36 credit hours of course work is required. The curriculum consists of required courses in Financial and Economic Issues, Organizational Issues, Computer and Research Methods, Project Delivery, Law and the Design Profession, Marketing, and Contemporary Issues Seminars. Students may enroll in 9 to 12 hours of graduate credit outside the required courses in the architectural management curriculum. Three to 6 hours in the 36-hour course of study are in the preparation of a written project or thesis, or in additional course work in an area of management to prepare for a final written examination.

● Architecture Courses

ARCH 500 Architectural Design VII (6).
 ARCH 501 Architectural Design VIII (6).
 ARCH 510 Problems in Computer Applications (3).
 ARCH 526 Building Power Systems for Architects (1).
 ARCH 527 Building Interior Lighting for Architects (1).
 ARCH 528 Building Acoustical Systems for Architects (1).
 ARCH 552 Professional Practice (3).
 ARCH 570 Contemporary Issues Seminar I (1).
 ARCH 571 Contemporary Issues Seminar II (1).
 ARCH 572 Contemporary Issues Seminar III (1).
 ARCH 573 Financial and Economic Issues in Architecture Management (3).
 ARCH 574 Organizational Issues in Architecture Management (3).
 ARCH 575 Architecture Management: Managing a CAD System (3).
 ARCH 576 Project Delivery in Architecture Management (3).
 ARCH 577 Marketing Architectural Services (3).
 ARCH 578 Legal Issues in Architectural Management (3).
 ARCH 600 Special Topics in Architecture: _____ (1-3).
 ARCH 602 Accelerated Architectural Design (6).
 ARCH 603 Graduate Design Studio I (6).
 ARCH 604 Graduate Design Studio II (6).
 ARCH 610 Computers and Project Development (3).
 ARCH 613 Visual Thinking Studio I (3).
 ARCH 615 Intensive Graphics II (3).
 ARCH 616 Advanced Architectural Presentation Techniques (3).
 ARCH 617 Principles of Architectural Composition (3).
 ARCH 618 Architectural Photography (3).
 ARCH 619 Advanced Architectural Photography (3).
 ARCH 620 Statics for Architects (2).
 ARCH 621 Strength of Materials for Architects (2).
 ARCH 622 Material Investigations (3).
 ARCH 623 Building Practicum (3).
 ARCH 624 Structural Systems for Architects (3).
 ARCH 625 Analysis and Design of Structures for Architects (3).
 ARCH 626 Building Technology I (3).
 ARCH 627 Building Technology II (3).
 ARCH 628 Structure in Nature and Architecture (3).
 ARCH 629 Listening to Architecture (3).
 ARCH 630 Recording and Representing Historic Structures (3-6).
 ARCH 631 Issues in Contemporary Architecture (3).
 ARCH 632 Contemporary French Architecture (3).
 ARCH 633 Readings in Classical Architecture (3).
 ARCH 634 Analysis and Design of Structures for Architects (3).
 ARCH 636 Art of Architectural Machines (3).
 ARCH 637 Architecture and Cosmos (3).
 ARCH 638 Architecture, Art and Science (3).
 ARCH 639 Current/Historical Directions in Architecture (2-3).
 ARCH 640 History of Architecture I: Ancient and Medieval (3).
 ARCH 641 History of Architecture II: Renaissance to Age of Reason (3).
 ARCH 642 History of Architecture III: Modern (3).
 ARCH 648 Historic Preservation (3).
 ARCH 650 Architect-Led Design-Build (1).
 ARCH 651 Advanced Design-Build for Architects (2).
 ARCH 652 Architect-Client Relations (1).
 ARCH 653 Nontraditional Careers in Architecture (1).
 ARCH 654 Ethics in Architectural Practice (1).
 ARCH 656 Architectural Programming I (1).
 ARCH 658 Programming and Pre-design Issues (3).
 ARCH 661 Eighteenth- to Twentieth-century American Landscape Design (3).
 ARCH 662 Twentieth-century American Landscape (3).
 ARCH 663 Darwin, Humboldt, and Changing Ideas in Landscape Architecture (3).
 ARCH 665 History of Urban Design (3).
 ARCH 666 Cities and Towns of the Great Plains (3).
 ARCH 670 Spreadsheet Applications (1).
 ARCH 671 Database Management (1).
 ARCH 672 Project Management Software (1).

Graduate students in architecture have the opportunity to participate in the school's nationally recognized Historic American Buildings Survey courses.

Students in architecture work closely with faculty members in design studios and are encouraged to seek as many different design critics as possible during their studies.

KU's Edwards Campus is at 12600 Quivira Rd., Overland Park, KS 66213-2402, phone (from Lawrence): 864-8400 or (913) 897-8400, <http://edwardscampus.ku.edu>.

ARCH 673 Presentation Tools (1).
 ARCH 674 Electronic Communication (1).
 ARCH 675 Graphics Packages (1).
 ARCH 676 Facility Management: Tools and Techniques (3).
 ARCH 677 Construction Cost Estimating for Architects (1).
 ARCH 678 Construction Project Management for Architects (1).
 ARCH 680 Building with Intelligence (3).
 ARCH 681 Defining Community (3).
 ARCH 693 Workplaces (3).
 ARCH 694 Homeplaces (3).
 ARCH 700 Directed Readings in Architecture (1-3). Individual study of special topics and problems. May be repeated for credit. Prerequisite: Graduate standing. RSH
 ARCH 701 Introduction to Graduate Studies (3). This course will examine issues in architectural research. It will provide an overview of graduate level studies with regard to definitions, methods, skills, and techniques. The course will consist of lectures, seminars, readings and guest presentations. The class will enable students to make informed judgments about matters of quality and quantity on architectural issues. Students will be expected to formulate sensible systems of classification for their chosen material. Students will be expected to produce papers and essays, make sample grant applications, and thesis formulations. LEC
 ARCH 703 Graduate Design Studio III (6). A continuation of ARCH 604 with an increased emphasis on design problems of increasing scale and complexity. Graduate level course that supplements the core syllabus of ARCH 400 with weekly seminars, expanded reading lists, and additional classroom assignments. Prerequisite: ARCH 604 (see studio grading policy). LAB
 ARCH 704 Graduate Design Studio IV (6). A continuation of ARCH 703 with an increased emphasis on environmental factors, including the integration of environmental systems. Graduate level course that supplements the core syllabus of ARCH 401 with weekly seminars, expanded reading lists, and additional classroom assignments. Prerequisite: ARCH 703 (see studio grading policy). LAB
 ARCH 705 Graduate Design Studio V (6). Graduate course that emphasizes urban context and design theories. Students will undertake specialized research projects. Prerequisite: Completion of second-year graduate requirements. LAB
 ARCH 706 Thesis or Project Definition (1). Seminar oriented to the clarification of the thesis or project problem and to the development of the thesis or project proposal. Prerequisite: Graduate standing. RSH
 ARCH 707 Furniture Design and Production (3). The object of this course is an intensive examination of the aesthetic problems of perceiving and making quality objects. Students will be expected to engage in a series of short-term, limited scope design exercises and experiments of an architectural nature. LEC
 ARCH 732 Environmental Pattern Languages (3). An introduction to the theory of pattern languages with particular emphasis on the work of Christopher Alexander; analysis of its relationships to other architectural theories; exploration of its implications for architectural practice. LEC
 ARCH 733 Analogous Thinking in Design (3). This seminar will seek analogs in psychology, medicine, biology, anthropology, and other disciplines; analogs that can serve to develop problem-seeking and problem-solving skills in design. Practice sessions in morphological analysis, synectics, bisociation, and triadization will link rigorous research to methods of application. LEC
 ARCH 740 Architecture History/Theory IV (3). An examination of architectural theories through the analysis of several important or paradigmatic buildings. Graduate level course that supplements the core syllabus of ARCH 440 with weekly seminars, expanded reading lists, and additional classroom assignments. LEC
 ARCH 754 Design Ethics (3). This seminar will explore both Western and Eastern concepts of ethics and morality through readings, papers, discussion, and guest speakers. The role of ethics in providing guideposts for social and societal responsibility in design will be developed. LEC
 ARCH 762 Urban Design Studies (3). Seminar concerned with the factors, processes, techniques, and current issues in urban design practice. LEC
 ARCH 764 Site Planning (3). Graduate course that investigates issues of site planning in an urban context, design and management of urban spaces, and strategies for integrating nature and built environments. Review of history and theories of landscape designs. LEC
 ARCH 765 Theory of Urban Design (3). An examination of the relationship between architecture and urban planning through contemporary interpretations of future urban form and the determinants of the location, spatial structure, growth and decline of cities. Foundations for an interdisciplinary synthesis are examined in an attempt to bridge the hiatus between large-scale architectural design and incremental adjustments to urban dynamics. LEC
 ARCH 770 Contemporary Issues Seminar I (1). A series of Saturday morning seminars on contemporary issues facing the profession. LEC
 ARCH 771 Contemporary Issues Seminar II (1). These seminars will consist of three to four guest lecturers each semester. All students en-

rolled in this course will attend the same lecture as ARCH 772. Topics will be selected to reflect major issues covered in the course work, or contemporary issues facing the profession. LEC

ARCH 772 Contemporary Issues Seminar III (1). These seminars will consist of three to four guest lecturers each semester. All students enrolled in this course will attend the same lecture with ARCH 771. Topics will be selected to reflect major issues covered in the course work, or contemporary issues facing the profession. This course will be graded Satisfactory/Unsatisfactory. LEC

ARCH 773 Financial and Economic Issues in Architecture Management (3). This course will focus on the fundamentals of accounting, macroeconomics and the construction industry, and concepts related to the development and implementation of a strategic business plan. LEC

ARCH 774 Organizational Issues in Architecture Management (3). Topics that will be covered in this course include the organization of a professional practice, personnel management, and the development of effective communication skills. LEC

ARCH 775 Architecture Management: Managing a CAD System (3). This course covers the various procedures involved in managing a CAD system within a design organization. It also explores the different applications and uses of current CAD technology. Topics to be addressed include: selecting a system; billing CAD services; support services and personnel; marketing CAD; customization, file management, menus and script files; AutoLisp Programming; and integrating CAD with other programs. Prerequisite: An introductory CAD class or permission of the instructor. LEC

ARCH 776 Project Delivery in Architecture Management (3). Conventional methods for project delivery will be reviewed along with design/build, fast-track, and other techniques. The relationship of the architect and development will also be explored, as will the relationship of project development to urban design concepts. LEC

ARCH 777 Marketing Architectural Services (3). The emphasis of this course will be on the development and implementation of a marketing plan, techniques related to the marketing of specific projects, and the relationship of marketing to other components of a firm. LEC

ARCH 778 Legal Issues in Architecture Management (3). A course designed to familiarize the student with legal considerations related to professional practice. Case studies and selected readings will serve as the basis for discussion of registration, contracts, business formation, taxes, employment practices, copyright, and patent law. In addition, the course will draw upon the knowledge and experience of members of the professional community. LEC

ARCH 790 Architectural Study Abroad: ____ (1-3). Organized field visits and study of selected architectural and urban sites abroad. Pre- and post-travel readings on themes selected to supplement and reinforce thesis or project research or areas of concentration. Students will be expected to maintain a diary and/or sketch book and submit a final paper. Prerequisite: Graduate standing and permission of instructor. FLD

ARCH 800 Special Topics in Architecture: ____ (1-3). Advanced or experimental courses on specialized topics representing unique or changing needs and resources in the graduate program in architecture. LEC

ARCH 803 Graduate Design Studio VI (6). A continuation of previous design study with emphasis given to specific student and faculty interests and to design development. Graduate level course that supplements the core syllabus of ARCH 500 with weekly seminars, expanded reading lists, and additional classroom assignments. Prerequisite: Completion of second-year graduate requirements (see studio grading policy). LAB

ARCH 804 Graduate Design Studio VII (6). A continuation of all previous design study with emphasis given to the synthesis of all form determinants and to design development. Graduate level course that supplements the core syllabus of ARCH 501 with weekly seminars, expanded reading lists, and additional classroom assignments. Prerequisite: ARCH 803 (see studio grading policy). LAB

ARCH 806 Thesis or Project Research (1-6). Independent study, research, and project work leading to the submission of a master's thesis or master's project. May be repeated for credit. Note: In some cases a Comprehensive Examination Option may be substituted. Prerequisite: ARCH 757 and consent of instructor. THE

ARCH 810 Computer-aided Design (3). Graduate course that introduces the design student to fundamental principles of data-processing theories and techniques, computer-aided design technologies, and information management systems. Prerequisite: Second-year graduate standing. LEC

ARCH 850 Special Topics in Management/Practice: ____ (2-3). Advanced or experimental courses on specialized topics representing unique or changing needs and resources in the management/practice option. IND

ARCH 852 Professional Practice (3). The essentials of office practice, including an analysis of the principal divisions of service, office procedures, and review of the Standard General Conditions of the American Institute of Architects contract. Guest lecturers and papers on specialized subjects. Graduate level course that supplements the core syllabus of ARCH 552 with weekly seminars, expanded reading lists, and additional classroom assignments. LEC

ARCH 858 Architectural Management Systems (3). Graduate course that investigates current issues in construction technologies and management techniques. LEC

Architectural Engineering

Architectural engineering at KU is administered by the School of Engineering. For program requirements and course descriptions, see Civil, Environmental, and Architectural Engineering in the School of Engineering chapter of this catalog or online at www.arce.ku.edu.

Joint Professional M.Arch./B.S. in Architectural Engineering Option

This program is for students who have completed all requirements for the Bachelor of Science (B.S.) degree in architectural engineering. (See specific degree requirements in the School of Engineering chapter of *The University of Kansas Undergraduate Catalog*.) The B.S. in Architectural Engineering degree is an ABET-accredited professional degree that requires a minimum of five years and 164 credit hours to complete.

The Joint Professional M.Arch./B.S. in Architectural Engineering option allows a student to receive the NAAB-accredited M.Arch. with a minimum of 45 graduate credit hours after the completion of the B.S. degree. The minimum time required to complete the two degrees is six and one-half years of full-time study. Substitutions in the prescribed curriculum may be made only with the approval of the architectural program graduate studies committee and architecture chair.

Admission to the professional M.Arch. program is based on the following criteria:

1. Minimum academic background for admission to the Graduate School as outlined under Admission in the General Information chapter of this catalog.
2. Completion of 9 credit hours in architectural graphics (ARCH 113 and ARCH 114), 24 credit hours in architectural design (ARCH 200, ARCH 201, ARCH 300, and ARCH 301), 12 credit hours in architectural engineering design (ARCE 680 and ARCE 681), 9 credit hours in architectural history (ARCH 640, ARCH 641, and ARCH 642), and 6 credit hours in building technology and programming (ARCH 626 and ARCH 658).
3. Completion of all other course requirements to receive the B.S. degree.
4. Portfolio review by the architecture program graduate studies committee to determine the quality of the student's previous academic and design work. After the portfolio review, the graduate studies committee may recommend that the student complete additional design courses and/or additional architectural elective courses to receive the Professional M.Arch. degree. This may result in additional semesters of academic study.

The minimum requirements for the NAAB-accredited degree are the same as those of Year Three of the Professional M.Arch. Program listed above (39 graduate credit hours) and an additional 6 graduate credit hours in the courses ARCH 740 and ARCH 665. Up to 6 hours of architectural course work at the 600 level or above from the B.S. degree may be substituted for required courses in the professional M.Arch. if these hours are in excess of the 164 total credit hours required for graduation from the B.S. in Architectural Engineering Program.

Urban Planning

Chair: James M. Mayo, ubpl@ku.edu
 Marvin Hall, 1465 Jayhawk Blvd., Room 317
 Lawrence, KS 66045-7614, www.saud.ku.edu
 (785) 864-4184

Professors: Black, Mayo

Associate Professors: Ellis, Luckey, McClure

Assistant Professors: Serda, White

Lecturers: Crawford, Dow, Englehart, Enslinger,
 Henderson, Nimz, Palos, Prem

The Master of Urban Planning (M.U.P.) is a graduate professional degree directed toward competence in practice in urban planning. It is the normal academic qualification for various planning and planning-related positions. The M.U.P. degree is accredited by the Planning Accreditation Board. The program places strong emphasis on policy planning and analysis in the context of urban or urbanizing environments.

The program is geared toward meeting the need for planning policy on urban issues at any level of government—federal, state, regional, and local—or outside the governmental arena.

Three major areas of knowledge are necessary for competence in policy planning. These areas are (1) history and theory, which provide the conceptual framework of social, economic, and political environments within which public policy is formed; (2) quantitative methods, which provide the skills necessary to define and analyze problems through data manipulation; and (3) specialty areas, which provide focused information and skills in housing and development planning, land use and environmental planning, transportation planning, and urban design concentrations.

Admission

Persons whose previous records indicate ability to succeed with advanced work may be admitted to the Graduate School through the Graduate Program in Urban Planning. Ordinarily, admission requires a bachelor's degree and a grade-point average of approximately B from KU or another institution with substantially equivalent requirements for the bachelor's degree. The Graduate School reviews the student's academic background before an applicant without a bachelor's degree is admitted as a degree-seeking student at KU. Admission decisions are based on the information supplied in the application materials described below.

Graduate Record Examination scores are not required. However, it is recommended that a student with a grade-point average below 3.0 and/or low (below C) grades in courses with economics and mathematical content, or lack of undergraduate courses in these areas, submit GRE scores. Thus, the faculty may be better equipped to evaluate the student's prospects for graduate study in planning at KU.

A complete application consists of

1. A completed application form;
2. A statement of the applicant's career goals and substantive interests in urban planning and rationale for undertaking graduate study in urban planning at KU;

3. Two copies of official transcripts from all colleges or universities attended;

4. Three reference forms or letters of recommendation from persons qualified to comment on the applicant's academic abilities and probable success in graduate study;

5. Scores from Graduate Record Examinations, if available;

6. Test of English as a Foreign Language scores, if the student's native language is not English; and

7. Application fee: nonrefundable check or money order payable to the University of Kansas (see Admissions in the General Information chapter of this catalog).

There is no specific deadline for receiving applications, but candidates are urged to submit them as early as possible. It can take considerable time to complete and process an application file, especially if materials are being sent from abroad. Students wishing to be considered for Graduate School Fellowships should submit application materials by January 15.

Submit your application to the Graduate School online at www.graduate.ku.edu. Send original transcripts of all completed college and university course work to

**The University of Kansas
 Graduate Application Processing Center
 1450 Jayhawk Blvd., Room 313
 Lawrence, KS 66045-7535**

Send all other requested application materials to

**The University of Kansas
 Urban Planning Program
 Marvin Hall, 1465 Jayhawk Blvd., Room 317
 Lawrence, KS 66045-7614**

Baccalaureate Preparation

A good undergraduate education in almost any discipline is acceptable preparation. Undergraduate preparation in the social sciences, engineering, business, or architecture is closely related to the direction and content of the M.U.P. program at KU.

M.U.P. Degree Program and Requirements

All students must complete 48 credit hours, which normally involves four semesters of full-time study. The required courses are

General

UBPL 736 Planning Institutions	3
UBPL 763 Professional Practice	3

Techniques: Required courses (9 hours)

UBPL 705 Economic Analysis for Planners	3
UBPL 741 Quantitative Methods I	3
UBPL 742 Quantitative Methods II	3

Theory

UBPL 815 History and Theory of the Planning Process	3
UBPL 850 Urban and Regional Theory	3

Concentrations. The curriculum requires each student to specialize in one substantive area from the following: housing and development planning, land use and environmental planning, transportation planning, and urban design. The student should declare the major area by the second semester of the course of study. The minimum number of credit hours for the major area depends on whether the student pursues the thesis or the nonthesis option. For the thesis option, the student takes at least 9 hours in the major area. For the nonthesis option, the student takes at least 12 hours in the major area.

**Semester
 schedule listings
 of architectural
 engineering
 courses appear
 under Engineering
 online at
www.registrar.ku.edu/timetable.**

**See School of
 Engineering for
 descriptions of
 architectural
 engineering
 courses.**

**Visiting scholars
 and practitioners
 come to KU annually
 as part of the
 J.L. Constant
 Distinguished
 Visiting Lecturer
 Program. In addition
 to lectures,
 they conduct seminars
 and participate in
 juries of student work.**

The specialty courses are as follows:

Environmental and Land Use Planning	
UBPL 730 Introduction to Land Use Planning	3
UBPL 735 Site Planning	3
UBPL 738 Introduction to Environmental Planning II	3
UBPL 739 Issues in Growth Management	3
UBPL 765 Planning and the Natural Environment	3
Housing and Development Planning	
UBPL 710 Introduction to Housing Policy	3
UBPL 714 Local Economic Development Planning	3
UBPL 716 Community and Neighborhood Revitalization	3
UBPL 718 Downtown Planning	3
UBPL 764 Real Estate Development I	3
Physical Development Planning	
UBPL 730 Introduction to Land Use Planning	3
UBPL 735 Site Planning	3
UBPL 764 Real Estate Development I	3
UBPL 766 Urban Design Implementation	3
ARCH 662/UBPL 662 Twentieth-century American Landscape ...	3
Transportation Planning	
UBPL 750 Introduction to Transportation Planning	3
UBPL 756 Advanced Seminar in Urban Transportation Planning ...	3
UBPL 758 Urban Mass Transportation	3

Free Electives. Besides the specialty courses, thesis students must take 3 additional credit hours, and non-thesis students must take 9 additional credit hours of elective courses, either in or outside the Graduate Program in Urban Planning.

Thesis Option. The thesis provides an opportunity for the student to apply individual research skills in the context of her or his interest. Thus, the thesis is a continuation of the student's course of study, rather than a separate academic effort. The format, medium, and focus of the thesis vary with the problem addressed. Six hours of academic credit are given for the thesis. A student desiring to prepare a thesis must develop, with the assistance of a faculty adviser, a thesis proposal to be submitted to the faculty thesis committee no later than the first day of classes of the semester before the semester in which the student plans to graduate. The committee's approval is required before the student may pursue the thesis option. A final general examination on the thesis and course work is held.

Nonthesis Option. The comprehensive examination may be taken as an alternative to the thesis. The examination provides a learning experience that encourages the student to synthesize the knowledge gained through course work and tests the student's competence as a generalist/specialist planner. The examination includes five questions, as follows: one question each on Planning Theory, Urban and Regional Theory, and Planning Methods, two questions in the student's concentration. No academic credit is given for the examination.

● Urban Planning Courses

- UBPL 500 Planning the American City** (3).
UBPL 502 Special Topics in Urban Planning: _____ (1-6).
UBPL 522 History of the American City I (3).
UBPL 538 Introduction to Environmental Planning I (3).
UBPL 565 Planning and Environmental Values (3).
UBPL 662 Twentieth-century American Landscape (3).
UBPL 701 Directed Readings (1-6). Designed to meet the needs of students whose study in urban planning cannot be met with the present courses. Prerequisite: Consent of instructor. RSH
UBPL 705 Economic Analysis for Planners (3). An introduction to the concepts and analytical techniques of economics that are most relevant to urban planners. The first part of the course is devoted to microeconomic theory, welfare economics, and the role of the government in the economy. The remainder covers public finance, investment analysis, and methods of determining the allocation of public resources (such as benefit-cost analysis). LEC
UBPL 710 Introduction to Housing Policy (3). Designed to provide an introduction to the various methods used by the public sector in order

to intervene in the housing market. Many different programs are used by governments at all levels to serve many different housing goals. This course will examine many of these programs in an effort to understand what they are supposed to accomplish and how well they work. In all cases, the objective of the course is to train planners so that they have a firm understanding of housing programs that exist now as well as a grasp of the methods used to select housing strategies for implementation by the public sector. LEC

UBPL 712 Seminar in Housing Markets (3). This course is designed to provide an in depth study of the behavior of housing markets in economic, social and political terms. This course will examine markets through the broad measurement of their adjustments in supply and demand as well as detailed study of circumstances where the housing market fails to provide equal services to all households. This study is intended to provide an understanding of how markets are supposed to behave and where planners can attempt to intervene so as to improve the functioning of these markets. LEC

UBPL 714 Local Economic Development Planning (3). This course provides a broad overview of local economic development planning. Emphasis is on the role of the practitioner and the various activities that can be pursued to encourage and enhance the economic base of a locality. The objectives of the course are to answer the questions: who are economic development planners; what backgrounds and interests do they have; what types of activities do they perform and initiate to encourage and enhance economic development; and how do they decide upon which activities to pursue? LEC

UBPL 715 "Community" in Neighborhood Planning and Design (3). This course provides a place-centered approach for understanding and applying the idea of community to local neighborhood planning. The course explores social theories of community and how these have influenced prescriptive models for neighborhood development and design. The course also evaluates the interplay of social, environmental, and economic forces at the neighborhood level and their relationship to community development and well-being. LEC

UBPL 716 Community and Neighborhood Revitalization (3). Cities are composed of neighborhoods which cycle through stages of development, decline and revitalization. The focus of this course is on both the theory of how and why neighborhoods change as well as on the methods used by the public sector to revitalize neighborhoods when they fail to generate sufficient social and economic activity on their own. Topics covered include deterioration and reinvestment. Policy approaches covered include neighborhood development organizations, enterprise zones and development grant programs. Prerequisite: UBPL 764 or consent of instructor. LEC

UBPL 718 Downtown Planning (3). This course provides a broad overview of downtown planning. Emphasis is on the role and evolution of downtown and the factors that affect its development. The course should prepare the student to participate in downtown studies and planning. The course will also introduce the student with other aspects of commercial development including shopping malls and commercial strips. LEC

UBPL 722 History of the American City II (3). This course examines the evolution of American cities from their European antecedents through the late 20th Century, from the urban planning perspective. It focuses on the changing spatial forms and functions of American cities and how these changes relate to socioeconomic and political aspects of urbanization as well as changes in technology. Emphasis is placed on analyzing the relationships between historical development patterns and the current range of problems facing most U. S. cities. (Same as UBPL 522 but gives graduate credit.) LEC

UBPL 730 Introduction to Land Use Planning (3). Introduction to land use planning as a specialist activity. Analysis of major determinants of land use, micro and macro approaches to land use planning; external effects of the use of land; environmental and fiscal impact analysis; current policy issues and approaches to land use at the national, state, and local levels. Creation of a plan for a hypothetical growing community. LEC

UBPL 735 Site Planning (3). Site Planning is an essential component of the development process. This class is intended to provide students with an understanding of site analysis, land use analysis, geology, soils, grading, drainage, utility planning, street layout and design, cost estimating, and surveying which are all part of the site plan submittal process for rezoning and platting. Students should complete this class with a clear understanding of the required elements of site plan submittals and the approval process. LEC

UBPL 736 Planning Institutions (3). This course approaches planning law from the perspective of a non-lawyer. An introduction to the legal system is accomplished by reading actual court decisions. The following areas are covered: zoning, subdivision law, growth management, capital improvement programming, tax incentives and other methods to regulate the implementation of planning knowledge in each concentration. Emphasis is on the impact of the law on planning rather than on specific content of individual cases. LEC

UBPL 738 Introduction to Environmental Planning II (3). The course seeks to unify two broad themes in environmental planning: policy formation and physical design. These are interrelated and depend upon each other for meaning. Laws and governmental policies set the framework for

defining appropriate environmental goals or ends. The means of environmental planning require understanding of natural processes, which cannot be ignored. The subject matter in the course draws from a wide variety of disciplines, including law, political science, soil science, biology, and geography. Same as UBPL 538 but gives graduate credit. LEC

UBPL 739 Issues in Growth Management (3). This seminar deals with the ability of state and local governments to make decisions concerning growth and to use planning and regulation to guide development. The emphasis in this course is to create policy documents for both urban and rural contexts. Various techniques such as impact fees, urban limit lines, agricultural lands protection and adequate public facilities will be analyzed and outlined by students. LEC

UBPL 741 Quantitative Methods I (3). Introduction to quantitative techniques utilized in planning analysis. Introduction to inferential statistics, computer programming, and the use of statistical packages. LEC

UBPL 742 Quantitative Methods II (3). Advanced study in planning techniques in the areas of population forecasting, analysis of variance, and regression. The course makes extensive use of microcomputers. Prerequisite: UBPL 741 or consent of instructor. LEC

UBPL 746 GIS Applications for Design and Planning (3). This course will explore a range of Geographic Information Systems (GIS) applications for students in architecture and planning. It will be structured as a workshop, starting with a review of basic GIS concepts and procedures. Different digital data sources will be explored, along with file sharing (import and export) capabilities. The focus will be on applications at different scales using projects in architecture, site planning, environmental planning, urban analysis, and regional analysis. Three dimensional analysis will also be introduced. Each student will develop a final project as a synthesis of earlier exercises and as an application relevant to their individual professional interests. LEC

UBPL 750 Introduction to Transportation Planning (3). Introduction to transportation as a specialist planning activity. Basic issues in urban highway and mass transit planning. The physical characteristics of urban transportation systems. Transportation planning according to travel demand requirements. Evaluation of alternative transportation plans. Environmental and community impacts of plans. Institutional aspects of transportation and transportation legislation. LEC

UBPL 756 Advanced Seminar in Urban Transportation Planning (3). The course is divided into two parts. The first part covers the area of land use modeling and its mathematical foundations: it includes linear programming, models of residential location and certain maximum entropy models. In the second part, the Urban Transportation Planning System (UTPS) is discussed. Students obtain a working knowledge of certain microcomputer packages used for short-term as well as large scale transportation planning. Prerequisite: UBPL 750 or consent of instructor. LEC

UBPL 758 Urban Mass Transportation (3). An overview of urban mass transportation in the United States today. Emphasis is on general planning of transit systems rather than details of engineering or hardware. Covers history of urban transit, federal transit programs, comparison of conventional and non-conventional technologies, operations, ridership characteristics, impacts on urban development, and economic, financial, and political issues. LEC

UBPL 760 Historic Preservation Planning (3). In addition to studying the history of the preservation movement in the United States, the course will discuss preservation at the state and local level, preservation at the private level, ordinance creation, legal aspects of preservation, technical issues and contemporary issues and controversies in the field of preservation. Projects will deal with philosophic and current issues in preservation. LEC

UBPL 763 Professional Practice (3). An examination of social relationships that the urban planner encounters in professional practice. Study of various planning roles in relation to the client and community within private and public domains. Emphasis is placed on the qualitative aspects of role taking with regard to bureaucratic organizational life. Prerequisite: UBPL 815 or consent of instructor. LEC

UBPL 764 Real Estate Development I (3). This course is designed to provide a working knowledge of the mechanics of real estate investment analysis. As a planning course, the emphasis is placed upon the process as performed by the practicing planner working with the public sector. This means that the course covers much of the same material that is normally included in a real estate development course in a business school. However, this material is augmented with the study of techniques used to achieve public sector goals. Among the topics covered in the course are: the calculation of return on investment in real estate; the financing of real estate development; the various forms of property ownership; and the implications of tax laws upon the rehabilitation of historic properties and the provision of low-income housing. Prerequisite: Knowledge of spreadsheet software on a personal computer. LEC

UBPL 765 Planning and the Natural Environment (3). The course traces the development of the theory and practice of environmental planning from its roots in traditional planning theory, to its applications

in contemporary environmental management, and through current efforts to encourage sustainability. LEC

UBPL 766 Urban Design Implementation (3). Urban design is studied from the perspective of planning controls. Issues include: aesthetics and zoning, sign regulation, circulation control, administration, finance, downtown revitalization, and historic preservation. LEC

UBPL 768 Real Estate Development II (3). This course extends the study of real estate development planning begun in UBPL 764: Real Estate Development Planning I. The course will examine various forms of public-private participation in the real estate development process. Advanced study of various public sector programs to guide and direct the real estate development process will be undertaken, including the use of tax credits for affordable housing and for historic preservation. Projects developed within the region will be examined to illustrate the application of these techniques. Prerequisite: Successful completion of UBPL 764 or permission of instructor. LEC

UBPL 802 Special Topics: _____ (1-6). This course is intended to afford the opportunity for individual or group projects/research in an urban planning topic. RSH

UBPL 806 Thesis – Graduate Research (1-6). Independent study and research related to the master's thesis. Prerequisite: Consent of instructor. THE

UBPL 815 History and Theory of the Planning Process (3). The course examines development of the planning function in the United States and the role of planning in the decision-making process. The first part covers the evolution of the planning profession in the past century. The second presents the major alternative theories of the planning process. The third deals with how these theories are applied in practice and the major issues that arise. LEC

UBPL 850 Urban and Regional Theory (3). The course covers the main topics in economic and ecological theory and regional analysis. The part dealing with urban theory covers topics of urban growth, sectoral interdependencies, Von Thunen theory, market failures and public policy issues. Inter-urban and intra-urban ecology are also discussed. The regional part of the course examines different regional geographic structures and their evolutionary patterns, including theories of Weber, Hotelling, Christaller, Losch, and extensions. Input-output and export base theory are also presented. LEC

Joint Degree Programs

M.U.P. and Master of Architecture

This joint degree combines in a four-year program the normal two-year M.U.P. degree and the three-year M.Arch. degree, both offered through the School of Architecture and Urban Design. The program is intended for students interested in careers in urban design. A total of 133 credit hours is required, comprising 39 hours in urban planning and 94 hours in architecture. Applicants must meet admission requirements of both the School of Architecture and Urban Design and the Graduate Program in Urban Planning. Students pursuing the M.Arch. may apply to the joint degree program during, but not after, the second year of study. Students pursuing the M.U.P. may apply to the joint degree program during, but not after, the first year of study.

M.U.P. and M.A. in American Studies

This joint degree combines in a two-and-one-half-year program the normal two-year M.U.P. degree offered through the School of Architecture and Urban Design and the normal one-year M.A. degree in American Studies offered through the College of Liberal Arts and Sciences. The program is designed for students interested in careers in policy planning and research involving the arts, social planning, cultural activities and facilities, and historic preservation.

For further information on the combined program, consult the respective program chairs.

See also American Studies in the College of Liberal Arts and Sciences chapter of this catalog.

The Fiske Guide to Colleges cites the School of Architecture and Urban Design as one of the strengths of KU.

Four campus buildings, Spooner Hall, Dyche Hall, Strong Hall, and Lippincott Hall, are listed on the National Register of Historic Places.

See pages 14 and 15 for admission procedures.

Some departments do not offer all courses in any one semester. See www.registrar.ku.edu/timetable for current course offerings.

M.U.P. and M.A. in Geography

This joint degree combines in a three-year program the two-year M.U.P. degree offered through the School of Architecture and Urban Design and the normal one-and-a-half-year M.A. degree in geography offered through the College of Liberal Arts and Sciences. The program is designed for students interested in careers in policy planning and research involving GIS cartography, environmental planning, and land use planning.

For further information on the combined program, consult the respective program chairs.

See also Geography in the College of Liberal Arts and Sciences chapter of this catalog.

M.U.P. and M.P.A.

This joint degree combines in a three-year program the M.U.P. degree offered in the School of Architecture and Urban Design and the Master of Public Administration degree offered through the College of Liberal Arts and Sciences. The program is designed for students interested in careers in urban policy planning and urban management.

Contact the Department of Public Administration or the Graduate Program in Urban Planning for information about degree requirements.

See also Government: Public Administration in the College of Liberal Arts and Sciences chapter.

M.U.P. and J.D.

The joint J.D./M.U.P. program is open to those who have earned baccalaureate degrees and whose undergraduate records indicate that they have the capacity to complete the law and urban planning programs. Applicants for the program must meet the admission requirements of the School of Law and of the Graduate Program in Urban Planning. Applicants should apply and be admitted to each school separately before they enter the first year of the program. The Law School Admission Test is the only required entrance examination. A student who decides to enter the program while enrolled in the first year of the J.D. or M.U.P. curriculum must obtain approval from the School of Law and the Graduate Program in Urban Planning as soon as possible. No student may enter the joint degree program after completing more than four full semesters in the law school or three full semesters in the Graduate Program in Urban Planning.

A total of 115 credit hours is required for the joint degree, comprising 39 hours in urban planning and 76 hours in law. The joint degree program can be completed in four years. To pursue the degrees separately would require five years. For information on the combined program, consult the program chairs.

See also the *School of Law Catalog*.