

**Programs for Undergraduates
2008-2009**

**Master of Architecture
(5-year program)**

**Bachelor of Science in
Architectural Engineering**

**Bachelor of Arts in
Architectural Studies**



John C. Gaunt, Dean
1465 Jayhawk Blvd.
206 Marvin Hall
University of Kansas
Lawrence, KS 66045-7614

School of Architecture and Urban Planning The University of Kansas

Programs for Undergraduates:

Master of Architecture (M.Arch. I)
Bachelor of Science in Architectural
Engineering (B.S. Arce)
Bachelor of Arts in Architectural Studies (B.A.)

Programs for Graduate Students:

Master of Architecture (M.Arch. III)
Master of Arts in Architecture (M.A.)
- Academic Track
- Architectural Management Track
Master of Urban Planning (M.U.P.)
Doctor of Philosophy in Architecture (Ph.D.)

**(please request specific graduate information for details
on these degree programs)**



Michael M. Swann, Associate Dean
Undergraduate Admissions

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(Cover photo courtesy of Doug Koch/KU University Relations.)



Dear Prospective Student:

Thank you for your interest in the Undergraduate programs of the School of Architecture and Urban Planning at the University of Kansas. We would be most pleased to have you apply to the School for an exceptional and challenging education.

The School offers two five-year, first professional degrees in architecture (M.Arch. I) and architectural engineering (B.S., Architectural Engineering). These degrees prepare students for careers as licensed architects and engineers. The four-year B.A. in Architectural Studies prepares one for careers in related fields such as planning, preservation, law and development. It also provides an appropriate preparation for a three-year professional Master's degree in Architecture (M.Arch. III, which we also offer at KU).

You may request that the KU Office of Admissions send you a Viewbook which contains general information and an application for admission to the University of Kansas. You may contact the Office of Admissions at (785) 864-3911 or e-mail them at adm@ku.edu. You may also apply on-line at www.admissions.ku.edu. International students make their application through the ISSS International Undergraduate Admissions Office. Information about applying and the online application can be found at this website: <http://www2.ku.edu/~issfacts/prospective/international/> or students may call (785) 864-2616 or e-mail issapps@ku.edu.

If you have further questions concerning the School or its programs, I would be happy to respond. I invite you to schedule an appointment with my office if you visit the campus. Please feel free to contact my office by phone at (785) 864-3167 or by e-mail at archku@ku.edu.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael M. Swann'. The signature is stylized with a large, looped 'M' and a long horizontal stroke at the end.

Michael M. Swann
Associate Dean

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The KU School of Architecture and Urban Planning: An Introduction

Architecture and architectural engineering students learn the art and science of building design. With the professionally accredited five-year master's degree in architecture (M.Arch. I) and required work experience, a student can become a licensed architect. With the five-year Bachelor of Science in architectural engineering (B.S. Arce) and work experience, a student can become a licensed engineer, and with approximately two years of additional study, also may receive the architecture degree. The four-year Bachelor of Arts degree (B.A.) in architectural studies combines a liberal arts education with the study of the conceptual content of architecture. Students enter the school of architecture as freshmen. New enrollment in the master of architecture and architectural engineering programs is limited, based on availability of studio space. In the two professional degree programs (M.Arch. I and B.S. Arce), 108 seats in first-year design studio are normally available each year for new students. Applicants are evaluated on the basis of their academic records (grades, classes, high school class rank, and ACT scores) as well as their interests, talents and experiences. The priority deadline for application for the fall session is February 1.

THE KU DIFFERENCE: The School of Architecture and Urban Planning is home to approximately 750 students and it offers a variety of undergraduate and graduate degrees in architecture, architectural engineering and urban planning. The relatively small size of the school fosters a unique and well known sense of community among its students and this allows for small classes, highly individualized instruction and an unusual array of support services.

Approximately 520 students in the school are enrolled in undergraduate or graduate degrees in architecture. Another 170 students pursue the accredited Bachelor of Science in Architectural Engineering, and roughly 60 students are enrolled in the accredited Master of Urban Planning degree (M.U.P.) offered by the school's Graduate Program in Urban Planning. All of the school's professional programs in architecture, architectural engineering and urban planning have been continuously accredited without interruption by the National Architectural Accrediting Board (NAAB), the Accrediting Board for Engineering and Technology (ABET), and the Planning Accreditation Board (PAB).

The majority of the students within the School are engaged in the study of architecture and they have several different paths of study from which to choose. Most, or about 400, are enrolled in the NAAB-accredited, 5-year professional Master of Architecture degree (M.Arch. I), initially accredited in 1994 and re-accredited in 2004. This is the most direct path into the practice of architecture and high school seniors who apply and are admitted enter directly into this intense and demanding studio-based degree program without remedial pre-professional course work in environmental design or graphics. KU is one of a handful of schools in the United States that offer a 5-year accredited Master of Architecture degree.

Approximately 110 other architecture students at KU pursue either the 4-year, undergraduate, pre-professional Bachelor of Arts in Architectural Studies degree (B.A.), or one of three post-professional graduate degrees which include a Master of Arts in Architecture degree (with one track in Architectural Manage-

ment available at the Edwards Campus and a second track in Architectural Research available on the Lawrence Campus) as well as a Doctor of Philosophy (Ph.D.) in Architecture degree. KU is one of only 20 schools that offer the Ph.D. in Architecture.

Applicants who are admitted into the professionally-accredited M.Arch, whether applying as high-school seniors, transfer students, or students who already hold a degree, must have a strong academic record, talent in drawing and design, and a demonstrated ability to handle a challenging course of study. Generally, with almost 800 applications each year, admission is highly competitive.

Those who are admitted to the M.Arch. I enroll in design studio, technical and support classes, and electives each semester. Beginning with first-year studio, each student is assigned his or her own table or work-station with no shared spaces and with each student having 24/7 access to studio as well as to the school's five computer labs, four shops, and various other support facilities. Students in architecture are required to take all the traditional courses in architectural design, theory, and history as well as building technology, structures, environmental systems and professional practice. The M.Arch. I also includes course work in research methods and a year-long specialized and advanced studio in design-build, urban design, sustainable design or advanced design. Students in architectural engineering take many of these same classes in addition to advanced courses in mathematics, the physical sciences, engineering sciences and specialized courses in structures, construction management and environmental systems. At KU, there are strong links between architecture and architectural engineering that have endured for a century, links that reflect the interdisciplinary nature of actual professional practice. With the completion of either of the accredited degrees

in architecture or architectural engineering, a graduate may sit for licensure examinations after supervised practical experience.

The educational experience is enriched by many unique opportunities for students. The School has extensive student exchange and foreign study programs in Scotland, Germany (4), Denmark, Italy (2), France, Australia, Brazil and Peru. Students enrolled in the M.Arch. I are required to spend the summer before their final year of study in one of the school's summer study abroad programs or in an internship. Fifth-year students in architecture may apply for the year-long Kansas City Urban Design program in which large-scale urban projects are undertaken through the sponsorship of a number of governmental and private agencies.

The highly successful placement of graduates over many years is based on the excellence of KU's students evidenced by the many awards they have won in national competitions, by the regional, national and international reputation of the faculty, and by long-standing ties the school has with alumni and friends who have enjoyed success throughout the world. Students have the opportunity to interview with dozens of firms from throughout the United States that participate in the school's annual Career Day as well as with individual firms that visit the school regularly and recruit throughout the year. Various other services such as organized visits to firms in Kansas City, Chicago, New York and St. Louis, specialized seminars and workshops on portfolio development, and on-line job searching and portfolio-resume banks are made available to students in the school. KU graduates hold significant leadership positions in many outstanding firms and are sought after for their design capabilities, their solid knowledge of design-build processes, and their leadership potential.

Architectural Education at the University of Kansas

Architectural education is a rich and varied experience for a wide variety of students from differing backgrounds. At the University of Kansas, there are a number of educational “paths” available to students who wish to study the built environment. The following diagram will help prospective students determine the path that best meets their own professional and personal goals.

What is emphasized in each path?	Who should select a particular path?	What is the title of the degree the student will receive?	What is the minimum length of the path in years?
Liberal Education	High school graduates who wish to study environmental issues and enter closely allied professions (architecture, planning, law).	Bachelor of Arts (BA) in Architectural Studies	4 years
Professional Education	High school graduates who possess high levels of graphic and technical skills and wish to enter architectural practice.	Master of Architecture I (NAAB accredited)	5 years
	High school graduates who possess high levels of science and mathematics skills and wish to enter engineering practice.	Bachelor of Science in Architectural Engineering (ABET accredited)	5 years
	High school graduates who wish to practice architecture after receiving a liberal university education.	BA + Master of Architecture III (NAAB accredited)	7 years
	Graduates of B.S. Arce who wish to enter engineering and architecture practice.	B.S. (ABET accredited) Master of Architecture III (NAAB accredited)	7 years
	College graduates (any degree) who wish to enter architectural practice.	Master of Architecture III (NAAB accredited)	3 years
Graduate Education	For those who wish to conduct research or develop specialized professional skills.	Master of Arts in Architecture (Management Track or Academic Track)	1.5-3 years
		Master of Science in Architectural Engineering	1-2 years
		Master of Urban Planning	1-2 years
		Doctor of Philosophy in Architecture	3 years

High School Preparation for Architecture and Architectural Engineering

Suggestions for Students Interested in the Professional M.Arch. and B.S. Arce Degrees

Ideally, the beginning architecture and architectural engineering student will have a solid background in the physical sciences, including mathematics; be able to 'conceptualize' at an above-average level; have a strong proficiency in oral and written communication; demonstrate a breadth of interest in the humanities; and be able to draw and sketch with ease. It is doubtful that such a student exists - but even three out of five isn't bad.

Drawing is probably the most easily acquired skill of the above, and math probably takes the highest toll on beginning students. Most architecture programs assume the entering student has had at least trigonometry and one course of physics in high school. The majority of architects, perhaps surprisingly, are not highly proficient in mathematic skills. Those whose forte is math and creativity might find architectural engineering the most rewarding field of study. Other individuals have tended to one or more other areas of concentration. Architecture is a highly diversified, multifaceted profession, and the opportunities for specialization are many. So even if you do not excel in mathematics (or drawing, or writing), you may still become an outstanding architect. The time necessary to maintain a high proficiency in more than one or two specific areas of professional practice is generally prohibitive. If you spot a weakness in your preparation, do not despair—but do not assume it is unimportant, either. The admissions adviser is probably more interested in a student's previous class rank and aptitude scores than specific courses or skills. A big plus for the prospective student is his or her achievement beyond regular requirements that might demonstrate a high level of organizational ability, creativity, or other capability. Architectural engineering students are expected to excel in mathematics and science.

The potential student should have an ample background in English and other humanities. A good course in freehand drawing will ultimately prove more valuable than drafting; one semester of drafting is probably more than adequate. Botany is highly recommended for those interested in landscape architecture. Courses in geography, history, philosophy, and government are useful to everyone. Foreign languages are seldom required

in architecture programs, but most accept language as an elective. Because many schools have opportunities for study abroad, the right language can have considerable practical use even before graduation. A course in industrial arts can be helpful but is not essential. Speech or debate classes are very useful, as architects must often express or explain complex ideas verbally, sometimes in trying circumstances.

A summer job in building construction is a very useful experience to the architectural student and is usually easier to find than a job in a professional office. If this or other opportunities in related building trades are not available, highly motivated individuals will avail themselves of books and magazines on architecture from a public or university library. A common deficiency for many 'average' architecture students is their lack of interest in reading—a habit probably started long before high school.

The other pastime highly recommended is sketching—anything, anywhere. Eye-hand coordination is not (as many think) an inborn skill. Practice is a necessary part of learning to draw well. Undoubtedly 95 percent of all architecture students will at some time wish they could draw better, and many will be extremely frustrated with their inability to communicate their ideas visually. There are several books available on freehand drawing that provide excellent fundamental instruction for the novice—a very good investment.

While there is no 'proper' or correct high school preparatory program, without some thought to the basic requirements of various architectural programs the careless student could be deficient in many areas upon entrance into a program. An overemphasis on vocational courses is perhaps the most common, though well-intentioned, mistake. The most common deficiencies of entering students are in mathematics and science. The most difficult shortcoming and barrier to acceptance is 'below average' general performance. Once you have an idea of the school(s) to which you want to apply, check the bulletins to determine both minimum aptitude standards and previous course work required. If it appears that you may not qualify, check directly with the school before passing up its program entirely.

Modified from: Architecture Schools in North America,
Association of Collegiate Schools of Architecture

Admission Requirements and Application Procedures

Students who wish to enroll in any of the Architecture or Architectural Engineering degrees at KU should begin preparing for these fields of study well in advance of submitting an application for admission. Although the application process itself is simple, it is important that students follow the guidelines for applying to the University of Kansas. Upon admission to the University of Kansas, the applications of students who wish to pursue an Architecture or Architectural Engineering degree are then forwarded to the School of Architecture for consideration. Thus, admission to any of the degrees described here is a two-part process involving admission to KU and admission to the specific degree program.

High School Seniors and New Students

Students who succeed in Architecture and Architectural Engineering generally have a solid grounding in a broad base of knowledge that includes work in mathematics, the sciences, humanities, social sciences, and the arts. We recommend the following core of classes as basic preparation for these degrees.

Recommended High School Preparation

- 4 years of English
- 3 years of math ending with algebra II/trig., pre-calculus or calculus (preferred)
- 3 years of science including physics
- Art/drawing classes are preferred over additional drafting or technical courses (one semester of drafting is adequate)
- 2 years of foreign language are beneficial, but not required
- 1 year of computer technology
- 3 years of social science

Students should be prepared to take math and physics in their first year at KU. An ACT Math score of 26 is required for enrollment in the required mathematics courses in the M.Arch.

and B.A. degrees. An ACT Math score of 28 is required for enrollment in the first calculus course in the B.S. Arce.

Admission Requirements

The decision on admission to the M.Arch., the B.A. in Architectural Studies, and the B.S. in Architectural Engineering is based on a variety of different factors including overall academic performance, standardized test scores, evidence of an ability to draw and design, and a history of activities and accomplishments demonstrating perseverance and a commitment to architecture or architectural engineering.

Plan to take the ACT test early enough to receive your scores by February 1. An ACT composite score of 27 or better improves your chances of being admitted. If you are not admitted, you may wish to take one year of general requirements (including calculus and physics) and then reapply.

Although there is no minimum grade point requirement, rank in class is an admission criterion. Students from Kansas high schools must be in the top 25 percent of their class; all other students should rank in the top 15 percent of their class. Admission is competitive.

Students who do not meet these minimum thresholds may apply for admission to the School of Architecture and Urban Planning. If they are not admitted, these students are encouraged to apply for admission to the College of Liberal Arts and Sciences at KU for a pre-architecture year of study. During this preliminary year, students should complete at least MATH 105, 106 or 115, ENGL 101, ARCH 103, PHSX 114 and several elective classes. (MATH 121 and PHSX 211 should be taken if applying to Architectural Engineering.) Students should have grade point averages of at least 3.5 in these courses. After this preliminary year, students may reapply to the

School.

Application Procedures and Deadlines

A complete application file includes application form (coded ARCHR for the Master of Architecture, ARCEER-BS for B.S. in Architectural Engineering, ARCHSR-BA for B.A. in Architectural Studies) a sixth semester transcript showing rank in class, and ACT scores.

Transfer Students and Students at KU

The School of Architecture and Urban Planning encourages applications from members of minority groups and women.

Undergraduate programs in the School of Architecture and Urban Planning include the professional Master of Architecture (M.Arch. I) and the Bachelor of Science in Architectural Engineering, each of which is a five-year program. It is recommended that transfer students seeking these degrees begin after one year, since the sophomore year contains foundation courses in a number of architectural technologies and design-support subjects.

The School also offers a four-year Bachelor of Arts in Architectural Studies, a pre-professional degree that can be followed by a three-year professional Master of Architecture (M.Arch. III) degree. Students seeking this degree may transfer in the first or second year.

Admission Requirements

Transfer students are admitted on a very selective basis. A strong scholastic background, both in achievement level and curriculum selection, is essential. Transfer students will be admitted if: space is available, they have earned a C or better in one semester each of physics and the required math class, and they have an overall grade point average of 3.5.

Transfer students are expected to have had the appropriate math class (equivalent to

Math 105, 106 or 115 at KU) and physics during their first year in college. Math courses of a lower level than calculus do not transfer for credit. Only grades of C or better are accepted in transfer credit toward a degree in the School of Architecture and Urban Planning. Equivalents to Math 121 and Phsx 211 are needed for students applying to the Bachelor of Science in Architectural Engineering.

A suggested first-year course sequence:

- English Composition I and II
- Calculus, Finite Math, or Topics in Math
- College Physics (4-hour course with lab)
- A Speech class
- A course in Human Geography or Environmental Studies

Students who wish to transfer graphics or design courses to the professional degrees may do so only upon submission of a portfolio of work done in such courses. For details on advanced placement in design studio, please see www.saud.ku.edu/ua. Remedial and vocational/technical courses do not transfer. Placement in the professional curricula will be based upon completed course work and a review of the comprehensive portfolio of prior work in architecturally-oriented courses. Advanced studio placement is on a space-available basis.

Please note that these are minimum requirements. Meeting them does not guarantee admission due to the competitive admission standards of the degree programs and limits on the size of classes.

Application Procedures and Deadlines

Transfer student applications must be received by October 1 for the spring semester and by February 1 for the summer or fall. Space limitations dictate that transfer applications received after those dates are likely to be denied for reasons not connected with the applicant's academic qualifications.

Please write directly to the Office of Admissions and Scholarships, KU Visitor's Center, 1502 Iowa St., University of Kansas, Lawrence, Kansas 66045 for general information and application packet. Or you may phone them at (785) 864-3911 or e-mail them at: adm@ku.edu. Or you may apply on-line at www.admissions.ku.edu. Completed applications, transcripts, and ACT scores should be sent directly to the Office of Admissions. High school transcripts and ACT scores are required if you have less than 24 hours of college credit.

International students make their application through the ISSS International Undergraduate Admissions Office. Information about applying and the online application can be found at this website: <http://www2.ku.edu/~issfacts/prospective/international/> or students may call (785) 864-2616 or e-mail issapps@ku.edu.

All complete applications for summer and fall are considered on February 1 (October 1 for spring). Materials should be mailed far in advance to insure that we receive them by the deadline. Applications received after the deadlines will be considered, but are less likely to be accepted due to space limitations.

Advanced Placement

TO OBTAIN CREDIT FOR ARCH 100 or 108
(First-year, first-semester studio)

Transfer Students

1. Complete an architectural design studio of at least 4 credits in another architecture program.
2. Submit a portfolio of projects equivalent in scope, content and quality to the work required in Arch 108 (see below for description and website for examples).

Change-of-School Students

1. Complete an architectural design studio of at least 4 credits in another architecture program. -OR-

Obtain a permission number to take Arch 100 (for Arch Engineering students).

2. Submit a portfolio of projects equivalent in scope, content and quality to the work required in Arch 108 (see below for description and website for examples).

Course Description

Arch 108: Architectural Foundations I. An introductory design studio directed toward the development of spatial thinking and the skills necessary for the analysis and design of architectural space and form. This course is based on a series of exercises that include direct observation: drawing, analysis and representation of the surrounding world, and full-scale studies in the making of objects and the representation of object and space. Students are introduced to different descriptive and analytical media and techniques of representation to aid in the development of critical thought. These include freehand drawing, orthographic projection, paraline drawing, basic computer skills, and basic materials investigation.

Pedagogical Premise

The pedagogical premise to our introductory sequence is tectonic theory, which Frampton defines as relating to the qualities emerging from the relationship between forces and building systems. Based upon Kahn and LeCorbusier, we suggest the fundamental architectonic relates to daylight. As students engage in direct observation and attempt to represent what they observe, light becomes the primary lens by which to view the work. Thus shade, shadow, texture and the like are emphasized in sketching, perspective as well as in plan, section and elevation. Computer software exposure includes Sketch-up and Photoshop, but emphasis remains on hand drawing.

Typical Projects

Full scale drawings of objects (plan, section, elevation); perspective sketching of buildings

(with shade and shadow); analytic drawings of existing buildings (plan, section, elevation); designing a “modulator of light” object. Maintenance of sketchbook.

Evidence Desired

- 5-6 projects demonstrating coverage of all elements in the course description;
- Work that shows a clear understanding of shade and shadow;
- Freehand drawing (pencil with tone/shade);
- Drafting (pencil on vellum and ink on mylar illustrating clear line weight hierarchy) of orthographic, paraline and one and two point perspectives;
- Model building; and
- Sketchbook.

TO OBTAIN CREDIT FOR ARCH 101 or 109
(First-year, second-semester studio)

Transfer and Change-of-School Students

1. Complete at least 10 credits of architectural design studios in another architecture program.
2. Submit a portfolio of projects equivalent in scope, content and quality to the work required in Arch 108 and Arch 109 (see below for description and website for examples).

Course Description

Arch 109: Architectural Foundations II. A continuation of Arch 108 with major emphasis on the design relationships among people, architectural space, and the environment. The course is based upon a series of exercises leading to the understanding of architectural enclosure as mediating between people and the outside world. Issues of scale, proportion, rhythm, sequence, threshold, and enclosure are introduced in relation to the human body, as well as in relation to formal, environmental, social and psychological factors. Students will engage in drawing, perspective projection, model building and basic computer graphics.

Pedagogical Premise

The pedagogical premise to our introductory sequence is tectonic theory, which Frampton defines as relating to the qualities emerging from the relationship between forces and building systems. Frampton identifies a central tectonic as an “ethnographic” tectonic, or in other words, the relationship between cultural practices and architecture. The experience of the spatial dimensions of architecture is emphasized in this class, highlighting the issues identified above.

Typical Projects

Plan and sectional analysis of existing buildings relating to human scale; design of a single space (reading space, meditation, etc.) using plan, section, elevation, perspective and physical modeling; concluding with the design of a sequence of three spaces (public-private) in a linear scheme (sauna, chapel, massage). All projects should be informed by precedents of cotemporary/modern architects. Compositional control should be evident. Computer software should include exposure to AutoCAD, Sketch-up, Photoshop, and 3d Studio. Maintenance of a sketchbook.

Evidence Desired

- 4-5 projects demonstrating coverage of all elements in the course description;
- Work that continues to show a clear understanding of shade and shadow and now with realistic solar orientation;
- Work demonstrating familiarization with contemporary architecture;
- Clear evidence of compositional control (spatial ordering) and utilization of language in Ching’s *Architecture: Form, Space and Order*;
- Clear evidence of skill in Model building;
- Sketchbook demonstrating solid freehand sketching skills.

Master of Architecture Degree (M.Arch. I)

The Master of Architecture degree, awarded after a minimum of five years of study, is a professionally accredited degree necessary for becoming a licensed architect. All students follow the same curriculum and pursue specific interests through their choice of electives and design studio choices in their final year of study.

The school's faculty includes architects, engineers, urban planners, and educators with degrees from many of the most prestigious architecture schools in the world and varied professional experiences.

Students work closely with faculty in design studios and are encouraged to seek as many different design critics as possible during their studies. Studio classes maintain a low ratio of 15 to 18 students per faculty member. The school brings visiting practitioners to campus to participate in juries of student work, and fifth-year students are given the opportunity to complete the final year in our Kansas City urban design studio.

Although architects consider themselves artists, the architecture profession, unlike the other arts, depends on knowledge in a wide range of fields, including the sciences. The practice of architecture involves social, psychological, and political considerations, and requires that practitioners have a background in the liberal arts as well as design and technology.



Former architecture students Maggie Richter and Nathan Rosemann review different design concepts for a project in Professor Richard Farnan's studio.

"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 US professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Masters 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."

MASTER OF ARCHITECTURE
 General Curriculum (For Summer 2008 and Subsequent Admissions)
 180 credit hours

Revised 6/13/08

FIRST YEAR

Fall (17 hours)

ARCH 108: Arch. Foundations I	4
ARCH 103: Intro. to Architecture I	3
ARCH 152: Professional Practice I (take Fall 2009)	1
MATH 105, 106 or 115: Topics, Finite or Calc.	3
ENGL 101: Composition I	3
_____ : General Education Elective	3

Spring (16 hours)

ARCH 109: Arch. Foundations II	6
ARCH 104: Intro. To Architecture II	3
PHSX 114: College Physics I	4
ENGL 102: Composition & Literature	3

SECOND YEAR

Fall (18 hours)

ARCH 208: Arch. Foundations III	6
ARCH 205: Natural Forces	3
ARCH 560: Site Planning	3
ARCH 665: History of Urban Design	3
General Education Elective (suggest HWC 204)	3

Spring (18 hours)

ARCH 209: Core Studio I	6
ARCH 340 : Architectural History I	3
ARCH 524: Structures I	4
General Education Elective (suggest HWC 205)	3
_____ : General Ed. Elective or Arch. Elective	3

THIRD YEAR

Fall (19 hours)

ARCH 408 or 409: Core Studio II	6
ARCH 624: Structures II	3
ARCH 626: Constr. Syst. & Assemblies	3
ARCH 341: Arch. History II	3
_____ : General Ed. Elective or Arch. Elective	3

Spring (18 hours)

ARCH 408 or 409: Core Studio III	6
ARCH 627: Culture of Building Technology	3
ARCH 342: Arch. History III	3
ARCH 530: Environmental Systems II	3
_____ : General Ed. Elective or Arch. Elective	3

FOURTH YEAR

Fall (18 hours)

ARCH 608: Core Studio IV	6
ARCH 529: Dayltg./Ltg./Acoust./Ventilation	3
ARCH 658: Prog./Tech Site Design/ Pre-Design	3
_____ : General Ed. Elective or Arch. Elective	3
_____ : General Ed. Elective or Arch. Elective	3

Spring (17 hours)

ARCH 609: Comprehensive Studio*	9
ARCH 552: Professional Practice II	3
ARCH 701: Intro. Grad. Studies (Res. Methods)	3
_____ : General Ed. Elective or Arch. Elective	3

SUMMER FOLLOWING FOURTH YEAR

Summer (9 hours)

ARCH 690 Study Abroad	6	or	ARCH 691: Practicum	6
and ARCH ____:	3		Architecture Elective	3

FIFTH YEAR

Fall (15 hours)

ARCH 500/8xx: Prof. Option Studio (Part 1)	6
ARCH 630: Theory & Context	3
ARCH ____: Arch. Elective or General Ed. Elective	3
_____ : General Ed. Elective or Arch. Elective	3

Spring (15 hours)

ARCH 501/8xx: Prof. Option Studio (Part 2)	6
ARCH ____: Arch. Elective or General Ed. Elective	3
ARCH ____: Arch. Elective or General Ed. Elective	3
_____ : General Ed. Elective or Arch. Elective	3

General Education Electives (includes English and Math - 46 hours)

Oral Communications/Logic: 3 hours (COMS 130 or COMS 230 or PHIL 148/149 or PHIL 310)

Humanities: 6 hours (HWC 204 and HWC 205)

Natural Science (in addition to Physics 114): 3 hours (BIOL 100 or BIOL 116 or GEOL 101 or GEOL 105 or GEOL 121)

Environmental & Social Science: 6 hours (EVRN 148 or 149 and GEOG 102)

Arts: 6 hours (HA 265 or HA 266 or HA 267 or HA 268 or HA 564 and MUSC 136 or any course in Music Performance or Dance 310 or Dance 340)

Free Electives: 9 hours (courses not offered by the School of Architecture and Urban Planning)

Professional Electives (12 hours)

Architecture, Urban Planning or Architectural Engineering Courses not listed above: 12 hours

GRADUATE TUITION COURSES: 30 HOURS MINIMUM

Bachelor of Science Degree in Architectural Engineering

Architectural Engineering is a five-year engineering program that blends the study of basic science, mathematics, engineering science, and engineering design with an understanding of architecture. Completion of the program results in a Bachelor of Science in Architectural Engineering degree which is accredited by the Accreditation Board for Engineering and Technology, Inc. (ABET).

Architectural Engineering graduates are sought by consulting engineering and architectural firms. They develop solutions to problems that arise in the planning, design, construction, and operation of buildings. Architectural engineers work closely with architects and are responsible for a building's engineered systems which include the structural, electrical power distribution, lighting, control and communications, and heating, ventilating, and air-conditioning systems.

The facilities of both the School of Architecture and Urban Planning and the School of Engineering are used by Architectural Engineering students. These include a mechanical systems laboratory, structural model testing laboratory, various computer graphics laboratories, and one of the best equipped acoustical laboratory facilities in the country.

Architectural Engineers are concerned with:

- Architectural Acoustics
- Heating, Ventilating, and Air Conditioning Systems
- Communications and Control Systems
- Lighting Systems
- Construction Engineering and Management
- Solar Energy and Energy Conservation
- Electric Power Distribution
- Structural Analysis & Design



Professor Bob Coffeen tests some equipment in his electro-acoustics class.

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

For Fall 2007 and Subsequent Admissions

165 credit hours

(First Year Architectural Design Studio Placement)

Revised 06/13/08

FIRST YEAR

<u>Fall (18 hours)</u>		<u>Spring (18 hours)</u>	
ARCE 103 Intro. to Architectural Engineering	3	PHSX 211 General Physics I	4
ARCH 100 Architectural Foundations I	4	ARCH 101 Architectural Foundations II	6
ENGL 101 Composition	3	ENGL 102 Composition & Literature	3
MATH 121 Calculus I	5	MATH 122 Calculus II	5
Humanities or Social Science Elective ¹	3		

SECOND YEAR

<u>Fall (18 hours)</u>		<u>Spring (16 hours)</u>	
PHSX 212 General Physics II	4	CE 301 Statics and Dynamics	5
ARCH 200 Architectural Design I	6	ARCE 217 Computer Assisted Bldg. Design	3
EECS 138 Introduction to Computing (C++)	3	CE 625 Applied Probability & Statistics	3
MATH 220 Differential Equations	3	CHEM 184 Foundations of Chemistry I	5
MATH 290 Linear Algebra	2		

THIRD YEAR

<u>Fall (16 hours)</u>		<u>Spring (16 hours)</u>	
CE 310 Strength of Materials	4	CE 461 Structural Analysis	4
ARCH 626 Building Technology I	3	ARCH 627 Building Technology II	3
ME 312 Thermodynamics	3	ME 510 Fluid Mechanics	3
EECS 315 Electric Circuits & Machines	3	CMGT 357 Engineering Economics	3
ARCE 350 Building Materials Science	3	ARCH 340 History of Architecture I	3

FOURTH YEAR

<u>Fall (15 hours)</u>		<u>Spring (18 hours)</u>	
CE 562 Structural Design I	3	CE 563 Structural Design II	3
ARCH 341 History of Architecture II	3	ARCH 342 History of Architecture III	3
ARCE 660 Building Thermal Science	3	ARCE 661 HVAC&R Systems Design	3
ARCE 645 Power System Engineering	3	ARCE 642 Illumination Engineering	3
Engineering Science Elective ²	3	CMGT 500 Construction Engineering	3
		Social Science Elective ¹	3

FIFTH YEAR

<u>Fall (15 hours)</u>		<u>Spring (15 hours)</u>	
ARCE 680 Architectural Engineering Design I ³	6	ARCE 681 Architectural Engineering Design II	6
Engineering Design Elective ²	3	Engineering Design Elective ²	3
Architectural or Engineering Design Electives ^{2, 4}	3	Architectural or Engineering Design Electives ^{2, 4}	3
Basic Science Elective ⁵	3	Professional Skills Elective ⁶	3

¹ See list of recommended humanities and social science elective courses.

² See list of recommended engineering science and design elective courses for ARCE emphases.

³ Taking or having previously passed the Fundamentals of Engineering (FE) Exam is a requirement of this course.

⁴ See list of recommended architectural design electives.

⁵ See list of recommended basis science elective courses for ARCE emphases.

⁶ See list of recommended professional skills electives.

Bachelor of Arts Degree in Architectural Studies

The four-year course of study that leads to a Bachelor of Arts in Architectural Studies prepares students for graduate school or any career that is enhanced by a knowledge of architectural history and theory. It is a liberal arts degree program that can be valuable to students who plan on graduate study in many fields, including law, business, urban planning, government, public service, design, or museum studies.

These fields of specialization extend beyond the traditional realms of formal architectural design, building technology, and construction. Architectural specializations have emerged in construction supervision, site planning, interiors, acoustics, lighting, heating and air conditioning, electrical and structural design, historic preservation, energy conservation, land use planning, urban design, computer applications, environmental impact, life safety, post-construction evaluation, and value management. New specializations continue to appear because of new social needs and improved technologies.

The curriculum covers architectural theory and history, and does not include design studios. All students take a core of classes and then complete the architecture requirements from a wide choice of electives. Students work with an advisor to select electives in their field of interest.

The Architectural Studies degree emphasizes an appreciation for architectural history and design theory and an interest in the cultural influences that shape the built environment. After graduate study, students with a Bachelor of Arts in Architectural Studies may work in historic preservation, urban planning, city management, law, education, or in business and management positions.

Students wanting to practice architecture and become licensed architects may pursue a professionally accredited architecture degree after completion of the Bachelor of Arts in Architectural Studies. This may include the final 3 years of KU's accredited M.Arch. III or it may include a 3-year accredited M.Arch. III at some other school. The NAAB-accredited M.Arch. is offered by the University of Kansas and can be combined with the Bachelor of Arts in Architectural Studies (see page 6).



B.A. IN ARCHITECTURAL STUDIES

Effective Fall 2009

Requirements

Core Requirements:		17 hrs.
ARCH 103 & 105 Intro. to Architecture I	4	
ARCH 104 & 106 Intro. to Architecture II	4	
History Courses in Architecture	9	
Electives in School of Architecture & Urban Planning		18
Electives in Student's Approved Interest Area		15
Liberal Arts and Sciences Requirements		<u>74</u>
	124	hrs. total (45 hrs. must be jr./sr. level - 300 or above)

Suggested Undergraduate Curriculum

FIRST YEAR

<u>Fall (15 hours)</u>		<u>Spring (16 hours)</u>	
ENGL 101 Composition	3	ENGL 102 Composition and Literature	3
MATH 105, 106 or 115	3	PHSX 114 College Physics I or Lab Science	4
ARCH 103 & 105 Intro. to Architecture I	4	ARCH 104 & 106 Intro. to Architecture II	4
Foreign language	5	Foreign language	5

SECOND YEAR

<u>Fall (15 hours)</u>		<u>Spring (15 hours)</u>	
Architecture elective	3	ARCH 340 Arch History I	3
ENGL (third-level English course)	3	HWC 205 Western Civilization II	3
HWC 204 Western Civilization I	3	Choice elective	3
Oral communication or logic course	3	Foreign language	3
Foreign language	3	Humanities elective	3

Upon completion of approximately 60 hours, students should begin to identify academic/career goals. The choice of courses in the third and fourth year of the B.A. degree will prepare students in their selected areas of concentration. Such concentrations might include, but are not limited to environmental studies, art history, or pre-professional education for the Master of Architecture, Master of Urban Planning, Master of Business Administration, Journalism, Law, etc.

THIRD YEAR

<u>Fall (18 hours)</u>		<u>Spring (15 hours)</u>	
Architecture elective	3	Arch 342 Arch History III	3
Interest electives	6	Natural science elective	3
Arch 341 Arch History II	3	Humanities elective	3
Humanities elective	3	Architecture elective	3
Choice elective	3	Interest elective	3

FOURTH YEAR

<u>Fall (15 hours)</u>		<u>Spring (15 hours)</u>	
Architecture electives	6	Non-Western culture course	3
Social science electives	6	Architecture elective	3
Natural science elective	3	Social science elective	3
		Interest electives	6

Professional M.Arch. III Option: Students interested in the professional M.Arch. degree might reduce the remaining degree requirements by selecting specific architecture electives. Enrollment in the M.Arch. requires approval of the Architecture Graduate Committee. Approval will be based on faculty recommendations, an overall 3.0 GPA, and portfolio review. Students planning on applying to the M.Arch. should take PHSX 114.

Study Abroad Opportunities

The School of Architecture and Urban Planning has exchange programs for third-year students with Heriot Watt University in Edinburgh, Scotland, and the University of Stuttgart and the University of Dortmund, Germany. Students selected to participate in these exchanges receive a Ewart Memorial Traveling Fellowship. Also, each year up to five students may be selected to participate in the Danish International Study Program, spending the fall semester of the fourth year in Copenhagen. The School also conducts a summer study programs in Italy, France and other countries for architecture students.

While these programs are for upper level students, anyone interested in applying for these opportunities is strongly urged to continue study in foreign language in high school and as a beginning college student.

Financial Aid and Scholarships

The School of Architecture and Urban Planning has a limited number of scholarships (approximately \$1,000 each) for entering freshmen. These scholarships are administered directly by the School and no application is necessary. Additional awards and scholarships are available to students at all year levels. These funds are provided by professional organizations and firms and other private donations; they are intended to support students who have demonstrated academic achievement and commitment to the profession. All awards are for one year and are not automatically renewed. All incoming students are urged to submit a Free Application for Federal Student Aid (FAFSA) to the Office of Financial Aid, Strong Hall. A completed file with that office allows students to be considered for all forms of financial assistance at the University.

Students in Architectural Engineering may also apply for awards and scholarships through the School of Engineering. For more information contact the School of Engineering, 1 Eaton Hall, KU, Lawrence, Kansas 66045 (785) 864-3856.

Estimated Expenses – Academic Year

Estimated Undergraduate Expenses for 2008-2009 are:

	Resident	Non-Resident
*Tuition and University Fees (based on 17 credit hr. semester)	\$8,641.20	\$21,316.40
Room and Board-Double Occupancy-Residence Hall	6,880.00	6,880.00
Books and Supplies (Average)	1,225.00	1,225.00
Lab Fees + Miscellaneous/Optional Expenses	<u>1,550.00</u>	<u>1,550.00</u>
	\$18,296.20	\$30,971.40
Transportation - Varies		

* Based on undergraduate compact tuition rates.

Missouri Exchange Program

The **KANSAS/MISSOURI RECIPROCITY AGREEMENT** allows for a limited number of Missouri students to pay Kansas resident fees if enrolled in the professional undergraduate degrees in Architecture and Architectural Engineering. The present agreement gives highest priority to continuing students. The number of eligible students is reviewed each semester and new students will be assigned vacated fee waivers as they become available.

We recommend that all Missouri students budget for non-resident tuition rates, especially in the initial year of study.

NOTE: The Reciprocity Agreement does not apply to the Bachelor of Arts in Architectural Studies degree.

The tuition reciprocity agreement between Missouri and Kansas covers Missouri residents pursuing professionally accredited architecture and architectural engineering degrees at the University of Kansas and Kansas State University. The current agreement provides a set number of in-state fee waivers to each university. The number of waivers assigned to the University of Kansas will cover most of the eligible Missouri students in our School.

Continuing students previously holding a waiver have first priority each semester, provided their academic performance meets the School's standards. All other students, including newly admitted students, will be assigned remaining waivers from a rank ordered list based on academic performance and preparation. No further application for reciprocity is necessary. New students are placed on the rank ordered list upon admission to the School of Architecture and Urban Design and will be notified on an individual basis of assignment of a tuition waiver.

We attempt to notify students before Summer Orientation or before fee assessment. We do recommend that, as a precautionary measure, you budget for out-of-state tuition for the first year. Some students will receive late notification of a waiver and a refund will be processed after fee payment.

We are sorry that this results in uncertainty as you plan your college budget. It might be helpful to know that, currently, 100% of eligible Missouri students in our School do hold waivers.

CLERY STATEMENT: The annual security report covering KU safety policies, crime statistics, and campus resources is available online at www.ukans.edu/safety or on paper by contacting the Dean of Students, 133 Strong Hall, 785/864-4060.

Timeline for Undergraduate Applications and Admissions School of Architecture and Urban Planning

November-December	Submit your application and required application materials to KU's Office of Admissions and Scholarships. Be sure to put the appropriate major on your application (M.Arch., B.A. in Architectural Studies, or B.S. in Architectural Engineering). You may apply on-line at: http://www.admissions.ku.edu/ .
Prior to Feb. 1st of your senior (Year)	Visit KU and the School of Architecture and Urban Planning. Be sure to make an appointment to meet (of your senior with Associate Dean Mike Swann (this is highly recommended, but is not required): http://www.admissions.ku.edu/visit/campus_visit/index.shtml . Submit the Prospective Student Interest Profile either by hard copy or on-line at: http://forms.saud.ku.edu/gen/online_forms/StudentInterestProfile10_1.php?start=1 (this is highly recommended). Be sure to visit the School of Architecture and Urban Planning's Undergraduate Admissions webpage at: http://www.saup.ku.edu/ua for information about our programs and admission requirements.
February 1st	School of Architecture and Urban Planning Undergraduate priority application deadline. (To meet this deadline, your application should be submitted to KU's Office of Admissions and Scholarships in December or earlier.) We do accept late applications, but our studio spaces fill early. All complete applications processed by KU Office of Admissions and Scholarships will be reviewed for admission to degree programs. The School of Architecture and Urban Planning will send you a letter when we have received your completed application from the Office of Admissions.
March 1st	Admission decision letters for fall semester mailed to applicants. First confirmation postcards mailed to admitted students.
April 1st	Deadline for receipt of first confirmation postcards.
Early April	Second and final postcards mailed to admitted students.
Late April	Deadline for return of second confirmation postcards. Pay the \$200 Enrollment Deposit (http://www.admissions.ku.edu/deposit/) (due May 1).
May	Register for New Student Orientation (http://www.orientation.ku.edu/).
June	Admission decisions finalized for transfer and other students who have student spring grades. First group of admitted Missouri students notified of assignment of tuition waivers.
June or July	New Student Orientation and Enrollment sessions for students admitted to the M.Arch., B.S. in Architectural Engineering, B.A. in Architectural Studies and Pre-Architecture.
October 1	Deadline for receipt of completed applications for spring semester admission.
November 1	Admission decision letters for spring semester mailed to applicants.

Be sure to visit KU's Office of Admissions and Scholarships webpage for other important information and deadlines (Senior Year Timeline and Transfer Student Timeline): <http://www.admissions.ku.edu/>.

Prospective Student Interest Profile

Dear Prospective Student in Architecture or Architectural Engineering:

We would like to know more about all our prospective students. This information will help us counsel you about your future. Would you please take a few minutes to fill out this form and return it to us? **Also, it would be most helpful if you attached a one-page essay explaining your interest in our programs and why you feel we should admit you.** Thank you. **Or you may submit this form on-line at:** <http://www.saup.ku.edu/au2>

What has led to your interest in this profession – friends, high school courses or particular teachers/counselors, relatives in related professions?

- friends
- high school courses or particular teachers/counselors
- relatives in related professions
- your view of your abilities
- your spare time interests, such as doodling
- other: _____

Extracurricular interests and activities:

- athletics
- art
- music
- debate, writing
- newspaper, yearbook
- other: _____

Work experience (list any):

- construction
- graphics/layout/printing firms
- engineering firm
- architectural firm
- restaurant or other retail services
- other: _____

Please list any prizes and awards in art, architecture, and design-related fields which you have received.

Have you visited an architect's or engineer's office?

Do you plan to apply for financial aid? Describe any special circumstances you may have concerning financing your education.

Return to: Michael Swann, Associate Dean
School of Architecture and Urban Planning
1465 Jayhawk Blvd., 205 Marvin Hall
University of Kansas
Lawrence, KS 66045

Last Name: _____

First Name: _____

