UK

University Senate Council
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3 May 2002

TO: Members, University Senate

FROM: University Senate Council

RE: Course/Program Actions: Effective Date: Spring Semester, 2003,
           UNLESS OTHERWISE NOTED.

           The Senate Council circulates for your approval the following curricular actions.
Objections will be accepted from University Senators and faculty members and must be
received within ten days of receipt of this notice. All other requirements for the courses or
programs as approved below must be met.

SENATE COUNCIL

COLLEGE OF ARCHITECTURE

Proposal to establish a four-plus two year professional degree program: A combined Bachelor
of Arts in Architecture degree and a Master of Architecture degree

The College of Architecture at the University of Kentucky proposes the establishment of a
four-plus two-year professional degree program consisting of a four-year, undergraduate
Bachelor of Arts in Architecture degree followed by a two-year, graduate Master of
Architecture degree. These two programs are inseparably linked, and hence they are
presented together here as a single proposal. The proposed program is intended to
incrementally replace the currently accredited five-year Bachelor of Architecture degree by
the year 2008 and become the only accredited professional degree in architecture in the
Commonwealth of Kentucky.

The proposed program will respond directly to the diverse needs of the architecture
profession and indirectly to the needs of other design disciplines and their related fields. The
graduate curriculum will support multiple areas of professional concentration within a core
professional education. This approach contrasts with the present B. Arch. curriculum, which
offers only a single path to a professional degree. The proposed program allows students
choice in selecting courses which suit their professional aspirations. These professional
concentrations also promote collaborations with other programs, at both the University of
Kentucky and other institutions. We anticipate collaborative efforts with UK programs such
as Interior Design, Landscape Architecture, Fine Arts and Engineering and with institutions
such as the University of Louisville and Berea College. The proposed program provides

university faculty with an opportunity to engage in academic and applied research, which will benefit the College of Architecture, the University of Kentucky, and the residents of the Commonwealth.

The College of Architecture will administer the program, and the University of Kentucky Board of Trustees will grant the degrees. The proposed program will consist of 133 credits for the undergraduate degree and 57 credits for the graduate degree for a total of 190 credits in six years. Compared to the current 176 credits required by the current Bachelor of Architecture Program, the new program reduces the credit hours per semester to 15.5 bringing it more into line with University of Kentucky standards. Once approved by the University, the program will be submitted for accreditation by the National Architectural Accrediting Board (NAAB) – the sole agency authorized to accredit U.S. professional degree programs in architecture.

Initially, operating expenses for the program will require additional funding by the University only for graduate assistantship support. The program will be funded from the College of Architecture annual budget and by external funding resources available to the College.

The proposed program will employ the current complement of full- and part-time faculty and staff and will use its present facilities. At this time, the University's central administration is making plans to correct the deficiencies in the facilities of the College of Architecture. While the new program can operate initially within the College's current facilities, new and better facilities are needed to assure the strength and viability of the program.

MASTER OF ARCHITECTURE

Mission: The proposed Master of Architecture (M. Arch) program will support the mission of the University of Kentucky by converting a nationally prominent but increasingly overburdened five-year undergraduate (B. Arch) professional degree program to a more rigorous "four plus two"-year professional degree program. The proposed program offers broader liberal education opportunities at the undergraduate (Bachelor of Arts in Architecture) level, and introduces several important new areas of professional concentration at the graduate level. The change will assist the university in its mission "to foster excellence in graduate, post-graduate and professional education" and augment its efforts to assume "a leadership role in addressing the issues and challenges facing the Commonwealth, the nation and the world." (See *Appendix A: Strategic and Operational Objectives for the College of Architecture within The University of Kentucky Strategic Plan, 1998-2000*.) **Note**: All appendices are available at the following Website
http://architecture.uky.edu/curriculumproposalfinal/a/WebPages/Table_of_Contents.html

Internal and External Influences: A five-year bachelor's degree program in architecture at the University of Kentucky was established in 1960 to meet the increasing need for professionally educated architects in the Commonwealth and the nation. During the four decades it has been offered at the University, the B. Arch curriculum has undergone several significant revisions in response to internal educational purposes (most notably the desire to provide a sound critical base to the work of the design studios with an exceptionally strong course sequence in the history and theory of architecture, urban design, and the required off

campus full-credit semester), and also in response to external pressures for change, such as increases in the University's Undergraduate Studies requirements and the incremental raising of national program accreditation standards, particularly in the areas of curriculum component distribution requirements and, since their inception in 1974, continually more demanding student performance criteria. Each of these several curriculum revisions has resulted in some increase in the total course work required for the degree, which reached its present limit of 176 credit hours in the mid 1980's, obliging students to carry an average of 18 credit hours per semester throughout the ten semester duration of the program. In each of these semesters, 6 credit-hours, or one third of the required course work, has been taken in unavoidably taxing architectural design courses in which a grade of C- is a failing grade. Thus, for the past two decades, and perhaps as the price of its national reputation the curriculum has been stretched to the limits of its capacity, and students have been forced to accept either the high levels of stress and fatigue associated with graduating in a timely way or, quite frequently, more prolonged enrollment in the program.

Among its comments on the program in April 1996, the National Architectural Accrediting Board Visiting Team observed that: It is highly unlikely in today's academic environment that students can complete 176 credits and graduate in ten semesters. In an unscientific poll the team found more than 65% of the students were taking six years or more to complete the requirements A review of College student records for 1994, 1995, and 1996 confirms the NAAB team's findings but paints a distinctly bleaker picture of timely success in earning the B. Arch. for the beginning freshmen in the typical entering class. An average entering class comprises 80 students of whom 41 (about 51%) are university/ college students with previous work. 60% of these students will graduate. Of those graduating, nearly all (93%) will do so in a timely fashion. The remaining 39 entering students (about 49%) are beginning freshmen. Their story is different. Only 50% of the entering 39 freshmen will actually graduate. 15 (40%) will withdraw from the program. Of the 20 freshmen that graduate, only 15 (75%) will manage to graduate in a timely way. Among these 15 students graduating "on time" are 9 (60%) who will graduate with distinction. In the final count, 44 (55%) of the original 80 entering students will graduate, but the freshmen will experience the highest rate of attrition.

Nevertheless, pressures to improve the immediate workplace-effectiveness of graduates of professional degree programs have continued to build. At the same time, the need to augment the current educational experience and diversify the skills of the emerging generation of architects has preoccupied many among both the practicing profession and the academic community with mounting insistence over the past decade.

The accumulating and increasingly impatient demands for greater competence in the graduates of professional degree programs were given authoritative voice in 1995, when the National Research Council published its report on the *Education of Architects and Engineers for Careers in Facility Design and Construction*s The deliberately narrow, if not quite philistine, focus of the report -- as reflected in its title -- is further confined to the alleged widespread deficiencies in the nation's architecture and engineering programs, charging that a broad spectrum of practice-related matters are given gravely insufficient attention, to the detriment of such concerns as client needs, constructability and costs. In the schools of

architecture, at least, the essential truth of this unrelentingly negative report has had to be acknowledged.

Less than one year later-- and in welcome contrast to the tenor of the National Research Council findings-- the Report of the Carnegie Foundation for the Advancement of Teaching, *Building Community: A New Future for Architecture Education and Practice*, focused on the larger purposes of architecture, which, it reaffirmed, "relate not only to building competently and fulfilling the wishes of clients, but helping foster, through design, more wholesome neighborhoods, safer streets, more productive workplaces, a cleaner environment, and more cohesive communities.

At its triennial Validation Conference, held at Pleasant Hill, Kentucky, in October 1996, the National Architectural Accrediting Board, together with representatives of the national collateral organizations and the Canadian accreditation agency adopted a completely revised and restructured set of Student Performance Criteria submitted by a Task Force of the Association of Collegiate Schools of Architecture (ACSA). The revised criteria had been designed with the purpose, among other things, of dealing effectively with the salient concerns and recommendations of both the National Research Council and the Carnegie Foundation reports. A subsequent NAAB Task Group refined the number and language of the criteria to their current form, as first published in the *1998 NAAB Conditions and Procedures*.

One further amendment to the language of the *1998 Conditions* needs mention here, this being a revision of the stipulations on curriculum distribution requirements. *Condition 11, Professional Degrees and Curriculum,* reads as follows:

The NAAB only accredits professional programs offering the Bachelor of Architecture and the Master of Architecture degrees. The curricular requirements for awarding these degrees must include three components -- general studies, professional studies, and electives. -- which respond to the needs of the institution, the architecture profession, and the students respectively. Together these three components comprise a liberal education in architecture and ensure that graduates will be technically competent, critical thinkers who are capable of defining multiple career paths within a changing societal context.

Given the steady interest exhibited by the Commonwealth's high school graduates in enrolling as freshmen in a program in architecture, there are several significant advantages to the conversion of the present five-year undergraduate degree to the four plus two-year program structure.

The additional time enables the curriculum to accommodate both the NAAB *Condition 11* on general studies, professional studies and electives and *Condition 12* on Student Performance Criteria while maintaining areas of historical program strength that would otherwise have had to be severely reduced.

In the process of accommodating NAAB's requirements concerning the provision of electives, the program can at last find the time to nurture a combination of breadth and focus in both

the students and the faculty. This will enable the students to meet and exceed the current standards of competence in the field and, at the same time, to turn their learning toward specific professional concentrations and possible career trajectories that will match their personal strengths and interests with the particular scholarly and professional specializations of the faculty.

PROGRAM DESCRIPTION

Curriculum: The College of Architecture will administer the program curriculum, and the University of Kentucky Board of Trustees will grant degrees. The curriculum will consist of 133 credits for the undergraduate degree and 57 credits for the graduate degree for a total of 190 credits in six years.

The curriculum conforms to the following outline:
I. Undergraduate university studies requirements 33 credit hours
II. Core program requirements 76 credit hours
III. Undergraduate elective courses 24 credit hours
IV. Graduate core program requirements 33 credit hours
V. Advanced elective courses 15 credit hours
VI. Master's Project 9 credit hours
TOTAL 190 credit hours

The above distribution of credit assumes that the University Studies Program *Basic Skills* requirements in mathematics and a foreign language have already been met prior to admission to the program, an assumption supported by historical student data. It also assumes that the Humanities section of the *Disciplinary Requirements* is to be met by approved Core Program courses in the History and Theory of Architecture (ARC 212 and ARC 213).

Below is the semester-by-semester "4+2" curriculum typical for a beginning freshman pursuing a Bachelor of Arts in Architecture and a first, professional Master of Architecture degree.

<div align="center">

Bachelor of Arts in Architecture (4-year program)
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YEAR ONE
Fall Semester
ARC101 Drawing I 2 credit hours
ARC111* Intro to History & Theory 3 credit hours
ARC151* Design Studio I 6 credit hours
University Studies Courses
ENG 101
(or ENG 105*) College Writing 3 credit hours
Calculus, Logic, Statistics Req.* 3 credit hours
Communications Req.* 3 credit hours
Social Sciences Req. 3 credit hours
Elective Courses
Elective 3 credit hours
TOTAL 17 credit hours
*Courses marked with an asterisk may be taken in EITHER the fall or spring semester of

the first year.

Spring Semester
ARC102 Drawing II 2 credit hours
ARC111* Intro to History & Theory 3 credit hours
ARC151* Design Studio I 6 credit hours
University Studies Courses
ENG 102
(or ENG 105*) College Writing 3 credit hours
PHY 151 Physics 3 credit hours
Calculus, Logic, Statistics Req.* 3 credit hours
Communications Req.* 3 credit hours
Elective Courses
Elective 3 credit hours
TOTAL 17 credit hours
* Courses may be taken in EITHER the fall or spring semester of the first year.

YEAR TWO
Fall Semester
ARC 212 History & Theory I: 15th-17th Centuries 3 credit hours
ARC 231 Structural & Material Concepts 3 credit hours
ARC 252 Design Studio II 6 credit hours
University Study Courses
Social Science Requirement 3 credit hours
Cross Disciplinary Requirement 3 credit hours
TOTAL 18 credit hours

Spring Semester
ARC 213 History and Theory II: 18th-19th Cents. 3 credit hours
ARC 203 Digital Media in Architecture 3 credit hours
ARC 253 Design Studio III 6 credit hours
University Study Courses
Natural Science Requirement 3 credit hours
Cross Disciplinary Requirement 3 credit hours
TOTAL 18 credit hours

YEAR THREE
Fall Semester
Program Courses
ARC 314 History and Theory III: 20th Century
&Contemporary 3 credit hours
ARC 332 Environmental Controls I 3 credit hours
ARC 354 Design Studio IV 6 credit hours
Elective Courses
Electives 3 credit hours

TOTAL 15 credit hours

Spring Semester
ARC 315 History and Theory IV: Urban Forms 3 credit hours
ARC 333 Environmental Controls II 3 credit hours
ARC 355 Design Studio V 6 credit hours
Elective Courses
Electives 3 credit hours
TOTAL 15 credit hours

YEAR FOUR
Fall Semester
ARC 511-515 History & Theory Seminar* 3 credit hours
ARC 456 Design Studio VI* 6 credit hours
University Study Courses
Cross-Cultural Requirement* 3 credit hours
Elective Courses
Electives 6 credit hours
TOTAL 15 credit hours

Spring Semester
ARC 511-515 History & Theory Seminar* 3 credit hours
ARC 456 Design Studio VI* 6 credit hours
ARC 434 Structures I 3 credit hours
ARC 435 Materials & Methods of Construction 3 credit hours
Elective Courses
ARC 457 Design Studio VII (elective) 6 credit hours
Elective 6 credit hours
University Studies Courses
Cross-Cultural Requirement* 3 credit hours
TOTAL 18 credit hours
*Courses may be taken in EITHER the fall or spring semester of the fourth year.
Off-Campus studio is strongly recommended in 4th year.
TOTAL UNDERGRADUATE HOURS 133 credit hours

<u>Master of Architecture (2-year program)</u>
YEAR FIVE
Fall Semester
ARC 533 Structures II 3 credit hours
ARC 641 Professional Practice 3 credit hours
ARC 658 Design Studio VIII 6 credit hours
Elective Courses
Electives in Chosen Concentration* 3 credit hours
TOTAL 15 credit hours

Spring Semester
ARC 510-515 Adv. History & Theory Seminar 3 credit hours
ARC 631 Building Systems Integration 3 credit hours
ARC 659 Design Studio IX 6 credit hours
Elective Courses
Electives in Chosen Concentration** 3 credit hours
TOTAL 15 credit hours

YEAR FIVE OR YEAR SIX
Summer Semester
ARC 642 Professional Internship 3 credit hours
TOTAL 3 credit hours

YEAR SIX
Fall Semester
ARC 750 Design Studio X:
Comprehensive Project 6 credit hours
Elective Courses
Electives in Chosen Concentration** 6 credit hours
TOTAL 12 credit hours

Spring Semester
Master's Project
ARC 709, 719, 729,
759, 769, etc. Master's Project
in Chosen Concentration** 9 credit hours
Elective Courses
Electives in Chosen Concentration** 3 credit hours
TOTAL 12 credit hours
TOTAL GRADUATE HOURS 57 credit hours
* *The curriculum for each graduate concentration is listed in Appendix B available at:
http://architecture.uky.edu/curriculumproposalfinal/a/WebPages/Table_of_Contents.html.
A complete list of undergraduate and graduate courses follows on page 12 and ff.

Didactic/Clinical Relationship: One of the recommendations made by Boyer and Mitgang in
their Carnegie Foundation Report was that "schools, practitioners, and local and national
architectural organizations collaborate to increase the availability, information, and incentives
for students to gain work experience *during school*. And we urge," they concluded, "that the
monitoring of those internships for their educational value be improved."

There are, we believe, only three schools in North America, those at the University of
Cincinnati in the U.S. and Dalhausie University and the University of Waterloo in Canada,
that have proved able to establish co-op programs involving their students in systematic
alternations between academic study and work experience. All three schools find it
necessary to place their students in both domestic and foreign offices on every continent

in order to sustain their programs. On the other hand, a requirement of up to 1200 or 1500 hours of work experience as a prerequisite to graduation has been in force at a number of schools for many years, sometimes accompanied by a credit allocation, sometimes not.

Although the University of Kentucky program has had no such requirement hitherto, the great majority of the B. Arch. program students are quite accustomed to work in the construction industry and architectural offices. Moreover, the national Intern Development Program operated jointly by the American Institute of Architects and the National Council of Architects Registration Boards and its member jurisdictions, now accepts as fulfilling part of its three-year internship requirement, office experience accumulated after the completions of the third year of study in a school of architecture. It is therefore proposed to incorporate a new three credit hour Professional Internship work-study course (ARC 642) as a requirement in the master's component of the new program.

Accreditation/Certification: The Kentucky State Board of Examiners for the Registration of Architects (together with almost all other jurisdictions in the U.S., every provincial association in Canada, and the federal and state agencies in Mexico) requires a degree from an accredited professional degree program as a prerequisite for licensure. While graduation from an accredited program does not assure registration, the accrediting process is intended to verify that each accredited program substantially meets the standards that, as a whole, comprise an appropriate education for an architect.

To assure broad familiarity with the skills and knowledge that must be demonstrated by graduates of professional degree programs and to encourage dialogue about the goals of architecture education, NAAB publishes a guide to the student performance criteria. As one of the conditions of accreditation, programs are required distribute copies of this guide to all faculty and students. The 1998 Guide to Student Performance Criteria lists and defines the thirty-seven criteria by which a professional education in architecture is assessed. These performance criteria may be found in Appendix D.

ADMISSIONS CRITERIA

Admission to the College: Enrollment in the College of Architecture is regulated by means of a selective admissions procedure. All applicants to the college are examined on a comparative and competitive basis. [See University Senate Rules, Section IV.]

Admission to the graduate program: Candidates must meet all requirements established by the Graduate School of the University of Kentucky. In the event that the College of Architecture Admissions Committee finds clear indications of probable success in the college from its review of the further evidence pertaining to a candidate who does not meet these minimum criteria, an exception may be made to this rule, upon recommendation of the Admissions Committee and with the approval of the Director of Graduate Admissions. Students transferring from or holding baccalaureate degrees from an accredited college or

university with an equivalent architecture program and courses may also apply. Candidates are admitted on the basis of the following criteria:
• The potential for general academic achievement as indicated by the undergraduate grade point average.
• A review of scores on the verbal, quantitative, and analytical sections of the Graduation Records Examination (GRE).
• A review of the candidate's portfolio including design works, written reports and essays.
• For students entering the graduate program from another university or program, three letters of recommendation are required indicating the student's probability of success in a professional program in architecture.

Advanced Placement Provisions: Students holding a B. Arch. from an accredited program may be admitted to the graduate program with advanced standing. In the case of transfer credit, the College of Architecture Admissions Committee reserves the right to require supplemental course work in the component or components of the college curriculum, which it deems most appropriate given the particular student's background and previous development.

A student who is admitted with advanced standing is required to complete at least 30 credit hours to receive the M. Arch. degree. The minimum curriculum for a student admitted with advanced standing is as follows:

ARC 511-515
Advanced History & Theory Seminar 3 credit hours
ARC 709, 719, 729, 759, or 769
Master's Project 9 credit hours
Electives in Chosen Concentration 18 credit hours
TOTAL 30 credit hours

Assessments and competencies: are discussed in the complete proposal, available at:
http://architecture.uky.edu/curriculumproposalfinal/a/PROPOSALDOCUMENT.pdf

Advisory Committee: The proposed undergraduate and graduate programs are the result of four years of deliberation by College Assembly with input from various professional groups such as the College Alumni, Kentucky Society of Architects and NAAB. Although no formal advisory committee was involved in the process, recommendations of external review committees, the NAAB Visiting Team Report, and informal evaluations from members of the profession and friends of the College were taken into consideration when creating the proposal. Letters of support from the profession are available upon request.

Plans for Articulation/Transfer Cooperation

Undergraduate Program
The proposed program establishes opportunities for interactive connections with the College of Architecture's graduate program in Historic Preservation; the College of Engineering; the

School of Interior Design in the College of Human Environmental Sciences; the departments of Anthropology, English, Political Science, Geography and History in the College of Arts and Sciences; the department of Art History in the College of Fine Arts; and the departments of Horticulture and Landscape Architecture in the College of Agriculture.

Transfer students to the undergraduate program must apply for admission to the College of Architecture. Transfer students should be aware that the College of Architecture Admissions Committee reserves the right to require an accepted student to fulfill components of the college curriculum, which it deems most appropriate to the student's background and previous development. This policy especially holds true for students seeking core program course credit by transfer of credit hours earned from other architecture programs.

Graduate Program
Requirements for the areas of professional concentration in the proposed M. Arch will involve courses from the various departments listed above. We anticipate collaborative efforts with other institutions such as the University of Louisville and Berea College. All students who enter the program must hold a Bachelor of Arts in Architecture degree or the equivalent. Students transferring into the M. Arch program must be evaluated and will be placed in the program in accordance with the procedures of the University of Kentucky. Transfer students to the M. Arch program must apply to the College of Architecture. Transfer students will be made aware that the College of Architecture Admissions Committee reserves the right to require an accepted student to fulfill components of the college curriculum, which it deems most appropriate to the student's background and previous development.

For all Supportive Data, including student demand, see complete program proposal.

Faculty
Clyde R. Carpenter, M. Arch, FAIA.
Maria G. Dallerba-Ricci, dott. arch.
Steven C. Deger, M. Sc. Arch. Eng.
Henri T. de Hahn, M. Arch.
Dennis E. Domer, Ph.D.
Hans Gesund, Dr. Eng., PE (Struct.), FASCE, FACI
John R. Groves, Jr. B. Arch, JD, Ph.D., AIA
Richard S. Levine, M. Arch.
Gregory A. Luhan, M. Arch.
Wallis J. Miller, M. Arch, Ph.D.
David Mohney, M. Arch. AIA
Mark J. O'Bryan, M. Arch. AIA
Michaele Pride-Wells, M. Arch in U.D.
Anthony Roccanova, M. Arch in U.D.
Francesca E. Rogier, M. Arch, (Ph.D. candidate)
Julia M. Smyth-Pinney, M. Arch, AIA.
Bruce A. Swetnam, B. Arch. AIA

New Courses:

ARC 102   Drawing II: Observational Freehand Drawing (2)
               A continued focus on the content of Drawing I with particular attention to
               basic notions of descriptive geometry. Students are introduced to three-
               dimensional perspective drawing, rendering in color, and shade and shadow.
               Studio: 4 hours per week.
               Prereq: ARC 101

ARC 203   Digital Media Within Architecture (3)
               A workshop that introduces students to the creative, analytical and generative
               potential of computers in the design of architecture. Lecture: 1 hour;
               laboratory: 4 hours per week.
               Prereq: Admission to the College of Architecture

ARC 404   Drawing III (off-campus) (3)
               An elective course offered in conjunction with a sponsored travel program
               requiring student observation of and interaction with the visited environment
               to be expressed formally through visual representation. The sponsors of each
               travel program tailor the course to suit the needs of the program as it relates
               to a particular locale. Studio: 6 hours per week.
               Prereq: ARC 102

ARC 405   Digital Visualization I (3)
               Students are introduced to concepts of computer visualization as applied to
               the study of architecture. Students will utilize modeling, rendering, and
               animation software to create three-dimensional representations of selected
               projects. Lecture: 2 hours; laboratory: 2 hours per week.
               Prereq: ARC 203

ARC 406   Digital Visualization II (3)
               A continued exploration of computer visualization with particular emphasis on a
               specific software. Subtitle required. Lecture: 1 hours; laboratory: 4 hours per
               week.
               Prereq: ARC 405

ARC 707   Digital Media: History and Theory (3)
               A graduate level seminar exploring the impact of digital media on visualization
               and the theoretical implications arising from its use as a means of visual
               expression.   Laboratory: 6 hours per week.
               Prereq: ARC 406

ARC 111   Introduction to History and Theory (3)
               Introduces enduring themes and generative forces in the history and theory of
               architecture by examining the cultural periods of various societies in different
               historical periods.

ARC 212   History and Theory I: 15th – 17th Centuries (3)
An overview of the key themes and historical developments in architecture from the fifteenth through seventeenth centuries. Emphasis on Western examples and relationships with earlier and later conditions, including contemporary problematics.

ARC 213   History and Theory II: 18th – 19th Centuries (3)
Continues the investigation of key themes and historical developments of architecture in the eighteenth and nineteenth centuries.
Prereq: ARC 212 or consent of instructor

ARC 314   History and Theory III: 20th Century and Contemporary Architecture (3)
Investigates modern and late twentieth century architecture as well as current themes and issues in contemporary architecture in relation to their historical context.
Prereq: ARC 213, or consent of instructor

ARC 315   History and Theory IV: Urban Forms (3)
An investigation of the factors and a consideration of the theories which have affected urban form.
Prereq: ARC 314, or consent of the instructor

ARC 410   Independent Study (3)
An independent study of architecture history and/or theory to be held in conjunction with an off-campus program, wherein a student will research a specific topic as agreed upon with either the sponsor of the travel program or a faculty member in the college. Laboratory: 6 hours per week.

ARC 461   Travel Seminar: Urban Context (off campus) (3)
An elective seminar offered in conjunction with a sponsored travel program, which investigates factors and considers theories of urban form in the context of the locale in question. Lecture: 2 hours; laboratory: 2 hours per week.
Prereq: ARC 315

ARC 511   History and Theory Seminar: Pre-20th Century (sub-title required) (3)
One of a series of graduate seminars devoted to investigations and analyses of pre-twentieth century architecture. Sub-title required. May be repeated to a total of 6 credit hours under different sub-titles.
Prereq: Junior or Senior standing with six credit hours of architecture history or art history at the 200 level or above, graduate standing, or consent of instructor

ARC 512   History and Theory Seminar: Modern (sub-title required) (3)

One of a series of graduate seminars devoted to investigations and analyses of pre-twentieth century architecture. Sub-title required. May be repeated to a total of 6 credit hours under different sub-titles.
Prereq: Junior or Senior standing with six credit hours of architecture history or art history at the 200 level or above, graduate standing, or consent of instructor

ARC 513   History and Theory Seminar: Contemporary (sub-title required) (3)
One of a series of graduate seminars devoted to investigations and analyses of pre-twentieth century architecture. Sub-title required. May be repeated to a total of 6 credit hours under different sub-titles.
Prereq: Junior or Senior standing with six credit hours of architecture history or art history at the 200 level or above, graduate standing, or consent of instructor

ARC 514   History and Theory Seminar: History and Theory (sub-title required) (3)
One of a series of graduate seminars devoted to investigations and analyses of pre-twentieth century architecture. Sub-title required. May be repeated to a total of 6 credit hours under different sub-titles.
Prereq: Junior or Senior standing with six credit hours of architecture history or art history at the 200 level or above, graduate standing, or consent of instructor

ARC 515   History and Theory Seminar: Urban forms (sub-title required) (3)
One of a series of graduate seminars devoted to investigations and analyses of pre-twentieth century architecture. Sub-title required. May be repeated to a total of 6 credit hours under different sub-titles.
Prereq: Junior or Senior standing with six credit hours of architecture history or art history at the 200 level or above, graduate standing, or consent of instructor

ARC 231   Structural and Material Concepts (3)
Introduces technological concepts of building and investigates the spatial and formal language of architecture with visual and physical analyses of various building structures and materials through the use of computers, field observations, etc.
Prereq: Admission to the College of Architecture; MA 109 or MA 123, PHY 151, MA 112 or the equivalent Paired with: ARC 252

ARC 332   Environmental Controls I (3)
Design, analysis and coordination of building systems to meet basic human needs and social expectations of the built environment. Considers ecology when addressing the thermal environment, water, sanitation, concentrated energy, circulation, life-safety, and communication.
Prereq: ARC 231. Paired with: ARC 354.

ARC 333   Environmental Controls II (3)
                 A continuing investigation into ideas and issues raised in ARC 332,
                 Environmental Controls I.
                 Prereq: ARC 332. Paired with: ARC 355.

ARC 434   Structural Design and Analysis I (3)
                 An exploration of structural concepts with an emphasis on statics, strength of
                 materials, and the use of mathematical and computer-aided methods of
                 analysis.
                 Prereq: ARC 231

ARC 435   Materials and Methods of Construction (3)
                 An intensive exploration of materials and building techniques with special
                 consideration given to the properties of materials and their uses in various
                 methods of construction.
                 Prereq: ARC 231

ARC 631   Building Systems Integration (3)
                 Graduate level study of the art and science of building design with emphasis
                 given to integrative strategies for developing a comprehensive, multi-systemic,
                 architectural project.
                 Paired with: ARC 750

ARC 632   Special Topics in Environmental Controls (3)
                 Advanced studies in human environmental design. Topics for research and
                 development will include sustainability, energy, infrastructure, sanitation and
                 water, lighting, and acoustics. Subtitle required.
                 Prereq: ARC 332 and ARC 333

ARC 533   Structural Design and Analysis II (3)
                 An exploration of structural concepts for the materials of steel and wood,
                 including considerations of load and resistance as factors in architectural
                 design.
                 Prereq: ARC 434

ARC 534   Advanced Studies in Structural Systems (3)
                 An exploration of structural concepts relating to with the materials concrete
                 and masonry, including discussion of stress and load as considerations in
                 architectural design.
                 Prereq: ARC 533

ARC 634   Architectural Detailing (3)
                 A study of the art and technique of complete building design through detail
                 development.

Prereq: Completion of all technical requirements for BA in Architecture or equivalent and admission to the Master of Architecture program.

ARC 735   Project Delivery (3)
A study in the execution of an architectural design including contract documents, cost estimation, and construction management.
Prereq: Completion of all technical requirements for BA in Architecture or equivalent and admission to the Master of Architecture program.

ARC 736   Building Codes and Design (3)
An analysis of content and format of current model building codes combined with discussion of the necessity for building codes, problems in interpretation and applications as well as legal aspects involved.
Prereq: Completion of all technical requirements for BA in Architecture or equivalent and admission to the Master of Architecture program.

ARC 738   Construction Specifications (3)
A study in defining the quality of materials used in architectural design.
Prereq: Admission to the Master of Architecture program

ARC 641   Professional Practice (3)
An exploration of professional and ethical responsibilities of the architect as they pertain to the procedural matters of practice and management.
Prereq: Admission to the M. Architecture program

ARC 642   Professional Internship (3)
A graduate-level summer internship with a professional architectural firm in which the student, along with a faculty advisor, will determine specific experiential and educational goals to be met. Laboratory: hours to be agreed upon with selected firm (apx. 10-15 hrs/wk for duration of internship).
Prereq: Admission to the M.Arch. program

ARC 743   Advanced Professional Practice (3)
A continuation of concepts introduced in ARC 641, Professional Practice, with an emphasis in issues relating to the legal, business, and organizational considerations of architectural practice as well as investigations into advocacy and the public and private leadership roles of the architect.
Prereq: ARC 641

ARC 151   Design Studio I (6)
Students investigate two-dimensional media, analyze buildings and text, and construct models as a means to explore basic environmental design principles. The studio continues with an emphasis on three-dimensional exploration and construction. Students investigate architectural design programs and materials of constructions. Studio: 12 hours per week.

Prereq: Admission to the College of Architecture

ARC 252   Design Studio II (6)
Students gain understanding of architectural language based on modern archetypes. Projects explore aesthetic and poetic possibilities while also emphasizing cohesion among space, structure, site, program, and material assembly. A variety of assembly types are introduced for the examining of structural and materials concepts.   Studio: 12 hours per week.
Prereq: ARC 151 with a grade of C or better; Paired with course: ARC 231

ARC 253   Design Studio III (6)
Extends the consideration of the issues related to the isolated object to the multiplication of that object with reference to issues of site and context, focusing attention on formal strategies for obtaining thematic unity. Studio: 12 hours per week.
Prereq: ARC 252 with a grade of C or better

ARC 354   Design Studio IV (6)
Studies the formal characteristics of site and context together with laws and principles of building and nature, ecology, and the ways these forces influence architecture. The studio investigates applications of current technology and building systems. Studio: 12 hours per week.
Prereq ARC 253 with a grade of C or better; Paired with course: ARC 332

ARC 355   Design Studio V (6)
Explores the architectural problem of a large-scale interior space conditioned by social and cultural programs. Special problems in lighting and acoustics will be addressed along with long-span structure. Attention will be paid to issues of scale, life safety, social interaction and public circulation. Studio: 12 hours per week.
Prereq: ARC 354 with a grade of C or better. Paired with course: ARC 333

ARC 456   Design Studio VI (6)
This studio explores various design topics including building technology, furniture design, digital visualization, historic preservation, and human settlement. Studio: 12 hours per week.
Prereq: ARC 355 with a grade of C or better

ARC 457   Design Studio VII (elective) (6)
This studio explores various design topics including building technology, furniture design, digital visualization, historic preservation, and human settlement. Studio: 12 hours per week.
Prereq: ARC 455 or ARC 456 with a grade of C or better.

ARC 658   Design Studio VIII (6)

This graduate level studio explores various design topics including building technology, furniture design, digital visualization, historic preservation, and human settlement. Studio: 12 hours per week.
Prereq: ARC 457 with a grade of C or better

ARC 659   Design Studio IX (6)
This graduate level studio explores various design topics including building technology, furniture design, digital visualization, historic preservation, and human settlement. Studio: 12 hours per week.
Prereq: ARC 658 with a grade of C or better

ARC 761   Special Problems in Town Design (3)
Students explore various topics related to the theory and practice of existing, emerging and new strategies for city and town development, revitalization, and long-term sustainability. Subtitle required.
Prereq: Admission to the Master of Architecture program

ARC 709   Master's Project in Digital Visualization (9)
A final, comprehensive project in the digital visualization concentration, which synthesizes conceptual and experiential knowledge into a cohesive presentation. Studio: 18 hours per week.
Prereq: ARC 750 and all requisite courses for the Digital Visualization concentration.

ARC 719   Master's Project in History/Theory/Criticism (9)
A final, comprehensive project in the history, theory, and criticism concentration, which synthesizes conceptual and experiential knowledge into a cohesive presentation. Studio: 18 hours per week.
Prereq: ARC 750 and all requisite courses for the History, Theory and Criticism concentration

ARC 729   Master's Project in Historic Preservation (9)
A final, comprehensive project in the historic preservation concentration, which synthesizes conceptual and experiential knowledge into a cohesive presentation. Studio: 18 hours per week.
Prereq: ARC 750 and all requisite courses for the Historic Preservation concentration

ARC 759   Master's Project in Building Design (9)
A final, comprehensive project in the building technology and tectonics concentration, which synthesizes conceptual and experiential knowledge into a cohesive presentation. Studio: 18 hours per week.
Prereq: ARC 750 and all requisite courses for the Building Design concentration

ARC 769   Master's Project in Town Design (9)
           A final, comprehensive project in the town design concentration, which
           synthesizes conceptual and experiential knowledge into a cohesive presentation.
           Studio: 18 hours per week.
           Prereq: ARC 750 and all requisite courses for the Town Design concentration

ARC 199   Topics in Architecture (3)
           This course number is to allow for new and experimental classes to be
           introduced into the architectural curriculum on an ad hoc basis. The course, if
           adopted on a permanent basis, will be formally proposed for addition to the
           College curriculum and assigned a new, permanent number.
           Prereq: TBA

ARC 299   Topics in Architecture (3)
           This course number is to allow for new and experimental classes to be
           introduced into the architectural curriculum on an ad hoc basis. The course, if
           adopted on a permanent basis, will be formally proposed for addition to the
           College curriculum and assigned a new, permanent number.
           Prereq: TBA

ARC 399   Topics in Architecture (3)
           This course number is to allow for new and experimental classes to be
           introduced into the architectural curriculum on an ad hoc basis. The course, if
           adopted on a permanent basis, will be formally proposed for addition to the
           College curriculum and assigned a new, permanent number.
           Prereq: TBA

ARC 499   Topics in Architecture (3)
           This course number is to allow for new and experimental classes to be
           introduced into the architectural curriculum on an ad hoc basis. The course, if
           adopted on a permanent basis, will be formally proposed for addition to the
           College curriculum and assigned a new, permanent number.
           Prereq: TBA

ARC 599   Topics in Architecture (3)
           This course number is to allow for new and experimental classes to be
           introduced into the architectural curriculum on an ad hoc basis. The course, if
           adopted on a permanent basis, will be formally proposed for addition to the
           College curriculum and assigned a new, permanent number.
           Prereq: TBA

Course Changes:
ARC 101   Introduction to Architecture
           (Change in title, description, prerequisite and credits)

Change to:

ARC 101   Drawing I: Observational Freehand Drawing (2)
Focuses on the rigors of observational drawing. Structure, space, contour, line, and color are explored through study of the human body, still life, landscape, and architectural spaces with attention to their application to the architectural experience. Studio: 4 hours per week.
Prereq: Admission to the College of Architecture

ARC 750   Graduate Field Study in Anthropology (1-6)
(Chang in title, description, prerequisite and credits)

Change to:

ARC 750   Design Studio X: Comprehensive Project (6)
Utilizing given site and program requirements, graduate students explore design issues comprehensively by producing a developed and detailed building design. Students will engage in structural design, environmental systems, life-safety and post-design assessments as required to meet the most current NAAB standards for a comprehensive studio.   Studio: 12 hours per week.
Prereq: ARC 659

ARC 699   Summer Internship (1-6)
(Change in title, description, prereq and credits)

Change to:

ARC 699   Topics in Architecture (3)
This course number is to allow for new and experimental classes to be introduced into the architectural curriculum on an ad hoc basis. The course, if adopted on a permanent basis, will be formally proposed for addition to the College curriculum and assigned a new, permanent number.
Prereq: TBA

ARC 799   Master's Project II (3)
(Change in title, description, prerequisite)

Change to:

ARC 799   Topics in Architecture (3)
This course number is to allow for new and experimental classes to be introduced into the architectural curriculum on an ad hoc basis. The course, if adopted on a permanent basis, will be formally proposed for addition to the College curriculum and assigned a new, permanent number.
Prereq: TBA

Note: The Undergraduate Council approved the College of Architecture's proposal, stipulating, however, the expectation that representatives of this college and LCC's Architectural Technology program will meet to reconcile proposed UK courses and existing LCC courses, transferability of courses, admission concerns, and the possible place of the two-year program in the new degree program. Any agreements would be documented for use by LCC

advisors and students. Follow-up on this dialogue will be provided in September 2002 to the Undergraduate Council.

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