School of Architecture

Donald D. Hanson, Dean
William J. Lauer, Assistant Dean

The School of Architecture presents a comprehensive program of undergraduate courses, offering opportunities for both general studies and professional specialization. The intent of the School's program is to complement the University's learning opportunities by providing curricula and course offerings in the art and science of design. Accordingly, the program is composed of informational, analytical, and integrative studies related to the human role in shaping and changing the built environment. The welfare of this environment, which is a vital factor in the well-being of people everywhere, depends upon the knowledge and skill which those educated in the design sciences can contribute to continuing processes of developmental change.

A goal of this revised program is to provide undergraduate studies in scholarly and professional areas related to the knowledge base and methodologies for working with the built environment, while at the same time utilizing the School's resources, faculty, and facilities to their maximum effectiveness.

 Facilities
The design laboratories, classrooms, computer room, library, and administrative offices of the School are located in three buildings—Estabrook Hall, Melrose Annex, and Alumni Gym. It is entirely appropriate that one of the newest schools, and particularly architecture, should be temporarily housed in venerable Estabrook Hall constructed in 1898. Other disciplines that share direct interests with the School—engineering, fine arts, and industrial arts—are also located in the building. The Melrose Annex provides additional space for upperclass research and design activities. The principal library holdings of the School are contained in the James D. Hoskins Library. Extensive general collections and reference volumes in architecture and the fine arts are housed there. These sources are augmented by the branch library of the School where students have access to all the reference books in current use.

Student Sponsorship
A number of $500 sponsorships are made available each year by architectural firms of Tennessee. These grants cover tuition and fees, travel expenses to a designated U.S. city for study purposes, subscription to a foreign architectural journal, purchase of special drafting equipment, and purchase of special reference books for the student recipients' personal libraries. Honor students in all the upper four years are eligible for this aid, but it is primarily awarded to students of third and fourth year standing.

Lecture Program
ROBERT B. CHURCH MEMORIAL LECTURESHIP
The income from the endowment is used to sponsor outstanding speakers from the profession.

General Information
Students are advised to consult the University's general requirements as stated in the front section of this catalog as well as the requirements for the School of Architecture. Self advising will not be permitted in the School of Architecture. Students must plan their schedule by consulting with an assigned adviser in the student's area of concentration. Electives will be chosen with the concurrence of the adviser and with full consideration of the necessary prerequisites.

Requirements for Admission to Second Year Architecture
(1) satisfactory completion of first year architectural program with grade point average at least 2.3, exceptions may be made by petition only;
(2) a personal interview and evaluation of applicant's work by a designated member of the School of Architecture;
(3) application to the School of Architecture no later than June 15 preceding the start of the second year.

Students must maintain an overall 2.3 grade point average by the end of 48 hours (attempted) in order to maintain "full status" in the program. Delinquent students will be put on "temporary status" for one quarter. These students will have one quarter to raise overall GPA to a 2.3 or have minimum 2.3 on each quarter's work until overall average is raised to a 2.3. If GPA is not brought up to a 2.3, the student will be dropped from the architecture program.

Third Year Prerequisites
Students are required to have all first and second year courses satisfactorily completed before entering the third year design courses, Architecture 3011-12. Students who register for a third year design course holding first or second year deficiencies may be required to drop the course at any point during the quarter.

Minor
An undergraduate minor in architecture is offered in order to enable students in other colleges to pursue studies in architecture which are relevant to their major areas of concentration. The minor will consist of not less than 18 hours. Persons interested
must obtain the consent of the Admissions Committee of architecture and dean of the School of Architecture, who will approve specific programs of study proposed by students.

**Course Load**

The average course load in any quarter is 17-18 credit hours. The minimum which may be taken by full-time students is 12 hours; the maximum which may be taken without approval of the dean is 20 hours.

**Satisfactory/No Credit Courses**

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

**Program Description**

The undergraduate curriculum has two major components: a core of general and professional studies, and a range of concentrations for in-depth study. Within the scope of a professional degree program, it thus provides a number of study areas from which students may select according to their individual interests and aptitudes. Four areas of concentration—Administration, Design, History/Humanities, and Technology—each with a subset of paths, are offered; they share a common core which provides the basic prerequisites for entry into one of the study concentrations.

**GENERAL CORE**

The general core is an introduction to the knowledge base of the School's professional program. The courses are neither highly specialized nor overly technical; thus they are open and accessible to other disciplines within or outside the University. Although it is recommended that the series of core courses be taken in sequence, it is so constituted as to permit flexibility in scheduling, particularly to accommodate transfer students seeking elective credits. Courses in the general core, in addition to English, math, and physics, are from the following five divisions:

- Basic Design and Visual Studies
- Analytical Studies
- Man-Environment Systems
- Physical Systems
- Historical Studies

**PROFESSIONAL CORE**

Courses in the professional core represent subjects fundamental to professional competence in architecture. The following five divisions constitute this core:

- Structural Analysis and Materials
- Environmental Control Systems
- Professional Practice
- Architectural Design
- Practicum

Through controlled electives, required in this curriculum, students can intensify and extend their professional skills and technical knowledge.

**ACCELERATED CORE**

Students demonstrating an exceptional proficiency in any of the professional core subjects may be approved for selected accelerated studies, thereby reducing the time needed to complete core requirements and allowing more time for concentration in the student's chosen area. Formal review and approval by the School are required of all accelerated core candidates.

**Curricula for Architecture**

All students studying for a Bachelor of Architecture degree will include the following requirements in their first three years of study. During the fourth and fifth years, the student's work will be concentrated in one of the following tracts: design, history, criticism, restoration/preservation, management, production, development, structures, systems building, or environmental controls. Refer to numbers in the 4300 sequence for architecture design lab electives. Any exceptions to the curriculum outline have been footnoted. For any additional specialized requirements, the student should inquire at the School of Architecture.

**Program for Architecture**

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<th>Program for Architecture</th>
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<tbody>
<tr>
<td>Degree: Bachelor of Architecture</td>
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<td>Major: Architecture</td>
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<td>Concentrations:</td>
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**Third Year**

- Architecture 3011-12: 8 8 -
- Architecture 3013-14: 4 4 -
- Controlled elective or 'Tract' course: 4 4 -

**Fourth Year**

- Architecture Design Lab Electives: 8 8 8
- Controlled Electives: 4 4 4
- Architectures: 8 8 8
- Controlled Electives: 4 4 4
- Electives: 4 4 4

Total: 240 hours

**HISTORY/HUMANITIES CONCENTRATION**

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<tr>
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<td>Fifth Year Architecture Design Lab Electives:</td>
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Total: 240 hours

**CRITICISM TRACT**

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<td>Architecture 4140:</td>
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<td>Architecture 4115, 4170:</td>
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Total: 240 hours

**RESTORATION/PRESERVATION TRACT**

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### School of Architecture

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**Architecture 4311**  
**Architecture 4175-80-85**  
**Controlled Electives**  
**Electives**  

**Total: 240 hours**

**MANAGEMENT TRACT**

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**PRODUCTION TRACT**

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**TECHNOLOGY CONCENTRATION**

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<td><strong>Structures and Environmental Control Tracts</strong></td>
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<td>Architecture 4701, 3015, 4702</td>
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**SYSTEMS BUILDING TRACT**

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<tr>
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**Elective Requirements**

- **Architecture 3701**  
- **Elective Courses**  
- **Total Minimum Required: 160**

### Controlled Electives Lists

**DESIGN CONCENTRATION**

Accounting 2110-20; Anthropology 2510, 2530, 3410; Audiology and Speech Pathology 4750; Architecture 2101, 2102, 3113, 3712, 3910, 4110, 4137, 4160, 4710, 4720, 4721-22, 4725-26-27, 4734, 4735, 4759-36-37, 4739, 4771-72-73, 4775, 4780, 4785, 4900, 4910; Art 3735, 3736, 3745, 3746, 3765; Botany 1110-20 3030, 3090; Broadcasting 3650, 4020, 4030; Business Law 4110; Child and Family Studies 2110, 3510, 3515, 3520, 4260, 4430, 4830; Chemistry 1110-20-30; Civil Engineering 4430; Crafts, Interior Design and Housing 3256, 4155, 4156, 4130, 4310, 4310; Communications 1110; Computer Science 2010, 3410, 4410; Educational Curriculum and Instruction 3310; Economics 2110-20-30, 3110, 3340, 4150; Electrical Engineering 4850; Environmental Engineering 3000, 4700; Finance 3110, 3910-30, 4330-40, 4370; Food Sydics and Administration 3310; Geography 2400, 3000, 3430, 3520, 4350, 4720, 4740; Geology 3510, 3520; History 4750, 4740; Industrial Engineering 4150; Journalism 3710; Law 4890; Marketing 3110, 3120, 3210, Mechanical Engineering 4220; Office Administration 2750; Philosophy 5150-20; Physical Education 3090; Political Science 4580-90; Psychology 2510, 2530, 3110, 3210, 3430, 4230; Real Estate 2610, 3610, 4120, 4130; Sociology 3010, 3130, 4330, 4340; Statistics 2100, 3220, 3310, Zoology 3010-20-30.

**HISTORY/HUMANITIES CONCENTRATION**

Anthropology 2520, 3610, 4600, 4650, 4740; Architecture 3110, 3113, 3115, 3120, 3125-26, 3130, 3135, 3137, 3130, 4110, 4115, 4120, 4125, 4130, 4133, 4147, 4140, 4150, 4160, 4170, 4175, 4180, 4185; Art 3710, 3711, 3720, 3730, 3755-56-57, 3765, 3775-76-77, 4875-76-77, 5855-56-57, 5770; Classics 4220; History 4670, 4740; Journalism 2210, 3120, 2220; Planning 4100. (Other electives may be accepted upon approval by the History/Humanities Area Committee.)

**TECHNOLOGY CONCENTRATION**

Accounting 2110-20, 2210; Architecture 4510, 4515, 4520, 4525, 4530, 4531, 4532, 4540, 4545, 4555, 4560, 4565; Business Administration 1110; Business Law 4110, 4120, 4130; Civil Engineering 4230, 4430; Economics 2110-20-30, 3210, 3211, 3410, 3410, 4120, 4130; Finance 3110, 3123-30, 3640, Industrial Engineering 4150, 5250, 5260, 5600; Insurance 3020; Industrial Management 3010, 3110, 4330, 4630; Journalism 3510; Marketing 3110, 3120, 4140, 4150; Office Administration 4515, 4540, 4550, Real Estate 2610, 3610, 4330, 4110, 4120; Statistics 2100; Transportation 3115, 4720.

**Faculty**


*On leave.*
1001 Introduction to Human and Environmental Properties and Transactions (4) Properties and concepts of developmental change and specific "building" processes; history of events in human activities and products in context to their contemporary design philosophies and technologies to the present.

1002 Visual Studies (4) Principles of functional organization and order introduced through examination of behavioral and physical properties of natural and built environments. Emphasis on space-spanning systems.

1004 Analytical Studies I (4) Introduction to General Systems Theory in relation to environmental analysis and design. Covers theory and application of the general systems approach and introduces problem-solving techniques, statistical analysis and design methodologies.

1005 Historical Studies I (4) Introduction to relationship of historical and cultural development of mankind and environment. Concept of ethics, aesthetics and criticism. Methods of historical research and application. Application to study of selected classical, medieval, and modern examples.

1006 Physical Systems (4) Introduction to properties of space-spanning and environmental control systems. System properties analyzed include standards and dynamic investigations of material composition component structures, and intra/intra system behavior. Anticipated sensory and environmental response to systems variation shall be studied.


2005 Historical Studies II (4) Concentrated examination of development of twentieth century design architectural theory and products as derivative or counterpart to Industrial Revolution. Emergence of post-industrial era and contemporary development.


2014 Analytical Studies II (4) Introduction to basic research methods and environmental problem solving; emphasis on the need for generating commodity, organizing, manipulating and displaying (communicating) wealth of diverse data for research and evaluation purposes. Course objective is to qualify students with concepts and techniques to utilize electronic data processing technologies as a research tool.


2101 Pre-modern Survey I (4) Classical Tradition in architecture—Greek and Roman Architecture, Renaissance and Neo-classical revivals.

2102 Pre-modern Survey II (4) Medieval and Byzantine Architecture.

3011 Architectural Design Lab I (8) Controlled exercises designed to demonstrate integration and application of design theory and methodologys into design process. Exercises directed to aspects of architectural issues such as site analysis, and integration of multiple complex architectural systems into comprehensive architectural resolutions.

3012 Architectural Design Lab II (8) Experimental exercises designed to demonstrate integration and application of design theory and methodologies into a creative design process. Exercises directed to aspects of architectural issues such as site analysis and planning, facility programming and program analysis, and integration of multiple complex architectural systems into comprehensive architectural resolutions.

3013 Professional Practice I (4) Survey of legal responsibilities of architect in servicing contractual arrangements, contracts, contract administration, codes and zoning regulations, liability and insurance factors in building delivery. Prereq: Third-year standing.

3014 Professional Practice II (4) Principles and methods of economics and management; project production and management, costs and analysis, budgeting, programming and construction management. Prereq: 3015.

3015 Service Practice (16) Employment for one quarter in office of a registered architect or other projects approved by the school. Prereq: 3011 and 3012.

3101 American Architecture I (Architecture in United States since 1867, medieval, Neoclassical, and Greek Revival traditions; eclecticism.

3102 History of the City (4) Evolution of town planning theories, modern theory, city of today and tomorrow.

3110 Oriental Survey (4) Architecture of non-Western traditions.

3113 Contemporary Architecture (4) Styles and theories from 1865 to present; design and technology; definition of architecture.

3115 Latin American Survey (4) Native and colonial architecture in Central and South America.

3120 Indigenous Traditions (4) Vernacular building traditions in non-European civilizations.

3125-26 History of Architectural Technology I, II (4, 4) History of construction techniques, hardware, materials and systems; t: before 1850, II: 1850 to present.

3130 History of Architectural Theory (4) Philosophies of science, the emergence of technology, and theories of design since 1500.

3135 Tennessee Architecture (4) Immigrant traditions, regional developments, national styles, contemporary architecture.

3137 Architecture Since 1945 (4) New directions and views of the future.

3140 Studies of Architectural Writing (4) Survey of European architectural writers from Pugin to the present; the relation between literature and design. May be repeated. Maximum credit, 8 hours.

3701-02 Application of Computer in Architecture (4, 4) Survey of computer applications in the architectural profession. Computer graphics; use of commercial programs and systems; program planning and implementation. Prereq: 3701 for 3702.

3712 Mathematical Models in Architecture (4) Introduction to geometric and development analysis. Use of mathematical methods in architectural science. Survey and classification of mathematical models in architectural science, including various numerical methods and use of digital computer.

3910 Research Methods for Designers (4) General introduction to variety of research methods and technical materials available to designer, appropriate for uncovering basic user requirements during design process. Prereq: 2000.

3920 Environmental Design Education: Problems, Practice and Structures (4) Focus directed at surveying existing models of learning, educational taxonomies, curricula goals, objectives and implementation formats, and methods of program evaluation. Role of existing architectural professional practice and its relation to design education explored. Required for teaching assistants in architecture. Prereq: Consent of instructor.

3930 Behavioral Approaches to Environmental Design (4) Of major concern in the lecture content of this course is the effect of the built environment on human behavior. Particular emphasis will be placed upon the role of environmental factors in human development, learning, adaptation, stress and coping, recreation, behaviors, life-style functions. Studio problems will explore the design of environments for children and environmental supports for various types of physical disabilities of people of all ages. Two credits for lecture and four credits for lab. Prereq: Consent of instructor.

3940 Behavioral Approaches to the Design of Prosthetic Environments (4) Many standard features of the built environment are unsuitable to the everyday functioning of individuals with various types of physical handicaps; study of architectural barriers in relation to the physically handicapped constitutes the course lecture content. Studio problems explore design of barrier-free environmental features and design of disability-specific environments and behavior supports. Two credits for lecture and four credits for lab. Prereq: 3930 for non-architecture students.

4110 Aesthetics in Architecture (4) Architecture among the arts; theory and philosophy of space, imagination, design and materials.

4115 Advanced Research Methods in Architectural History (4)

4120 Treatises (4) Vitruvius; Renaissance and Neo-classical treatises.

4125 Eastern European Architecture (4) Twentieth-century architecture in Russia, Czechoslovakia, Poland, Hungary, East Germany, Rumania, Bulgaria, Yugoslavia.

4130 Seminar in Medieval Architecture (4)

4135 Architecture and the Romantic Movement (4)
1417 Introduction to Preservation and Restoration (4) History and theory of restoration and preservation.

1418 Recording Historic Buildings (4) Techniques for drawing and documenting historic architecture.

1419 Contemporary Preservation Practice (4) History and theory of contemporary practice, preservation law.

1421 Historic Preservation Laboratory (8) Directed studies in historic preservation; historic significance. Techniques of preservation; research of historic methods of construction; and studies of viable uses. Rehabilitation, restoration, preservation, and adaptive uses. May be repeated. Maximum credit, 16 hours.

1422 Foreign Studies Laboratory (16) Travel, research, and laboratory projects conducted in various locations abroad. The programs may include service to lesser developed countries; research and design projects related to program locations; lectures, seminars and critiques by distinguished individuals in the host country. Programs will vary.

1431 Media Laboratory (8) Special projects related to journalism, film making, exhibitions, publications and other media and media applications under the direction of faculty members. May be repeated. Maximum credit, 16 hours.

1432 Introduction to Site Planning (8) Analysis of site form and ecology, environmental assessment, social and psychological aspects of site locations and development, study of movement systems, program development, site design, including location and layout of streets and utilities, earthwork, site management and development.

1432-22-23 Macro Studies Laboratory I, II, III (8, 8, 8) Design and scale of large scale and complex nature with emphasis on reinforcing application of architectural design process and introducing principles and techniques used in urban and regional design and planning process. Prereq: 4320.

1433 Architecture Research Lab (8) Research projects on specific architecture subjects under the direction of faculty members.

1434 Independent Studies Lab (1-8) Individual and supervised research or creative activity under direction of faculty members. Credit adjusted to nature of problems and level of effort. May be repeated. Maximum credit, 24 hours.

1435 Visiting Lecturers Laboratory (4) Architectural presentations to demonstrate range of visiting lecturers. Nature of project to be determined by visiting lecturer in charge. May be repeated. Maximum credit, 24 hours.

1436 Build Laboratory (8) Design and construction under the direction of faculty member of small scale building project for a public service agency or organization. Work with client includes problem solving, cost and analysis, material specification, and ordering, sub-contracting, inspection, on-site management.

1437 Architectural Service Laboratory (8) Off-campus and campus projects under direction of architect or related professional on the staff, member of public service organization or agencies of government. Subject to the problems but is directly related to problem-solving process.

1438 Development Laboratory (8) Directed studies in development of real property. Studies of use feasibility, economics, finance and marketability, environmental impact, social considerations and consequences.

1439 Remote Centers Laboratory (8) Program extension in remote locations of various campuses.

1440 Architecture-Engineering Laboratory (8) Directed research application in new structural concepts. Architectural projects of large scale and complex nature with emphasis on the engineering systems considering codes, economics, urban design, utility services, structure, environmental controls and construction.

1441 Interdisciplinary Laboratory (8) Action-oriented joint studies laboratory in environment-related project management of development undertaken by students and faculty both in and out of the School of Architecture.

1442 Management Design I (8) Using the lab situation and project simulation, study aspects of project management and construction, the process of making decisions and the understanding of their ramifications; the concept of decisions, design and the process of delivery is main theme.

1443 Administrative Design I (8) Lab simulation of office experience in project planning and control, programming and preparation of contract documents.

1444 Management Design II (8) Advanced work in lab situation of the management aspects of architecture. Use of computer as a management tool and simulation of an office situation is conducted in the lab. Prereq: 4501.

1445 Administrative Design II (8) Lab simulation of project with emphasis on production, specifications, estimating, materials, and codes. Prereq: 4502.

1446 Professional Services (4) Marketing of architectural practice by study of cases, theories, public relations procedures and understanding sales of architectural services, basic and comprehensive.

1447 Personnel Relations (4) History of practice of architecture emphasizing personnel policies, the theories of personnel relations, benefits, and unionization.


1449 Architectural Practice I (4) Analysis, survey, and study of the architectural organization of practices and financial arrangement of office structure.

1450 Architectural Practice II (4) Analysis and study of contracts, insurance, taxes, and the legal position and liabilities of architect.

1451 Advanced Contracts (4) Study of contractual problems relating to architect, owner, contractor and sub-contractor.
IRENE HAZARDS (4) Probability, risk, human values, insurance. Survey and possible hazards: floods, fire, hurricanes and tornadoes, earthquakes, nuclear effects, internal and external explosions. Building code requirements: design of steel, masonry, concrete, and wood structures to resist extreme effects. Protective construction for human and system needs. Fire forecasting, building fire behavior, fire phenomena, life safety analysis, high-rise building fires.


4735 Advanced Design of Concrete Buildings (4) Precast and on-site concrete construction and maintenance, foundations, floor and wall systems. Domes and shell roofs. Prereq: 3702 or equivalent.


4739 Aesthetics of Engineering Structures (4) Architecture in engineering; theory and utilization of space in the design of large structures. Bridges, exhibition halls, power plants.

4741 System Theory, History and Methodology (4) Investigation of general system theory and system research methodology. Overview and analysis of system theory. Prereq: System Theory.

4742 Types of Systems (4) Comprehensive examination of system types, concepts and approaches. Comparative analysis of unit assemblies, components, panels, boxes and self-help systems. Exploration of all building types, housing, schools, garages, hotels, dormitories, hospitals, etc., and their cultural ramifications. Prereq: 4741.


4751 Structural and Architectural Innovations (4) Exploration of new concepts, advances and innovative approaches to design, architecture and structural systems. Design drawings, detailing, contract documents, and specifications. Study of components and assemblies in building systems, in wood, steel, concrete and plastic systems. Use of computers, structurally and architecturally. Prereq: 4743.

4752 Mechanical Innovations (4) New technological changes: filtration, ventilation, refrigeration, heating, air conditioning, plumbing and electrical systems. Concepts of mechanical components at factory and mechanical connections at the site, their application and use. Coreq: 4751.

4753 Construction and Manufacturing Innovations (4) Comprehensive analysis of new technology and innovations in manufacturing and construction with emphasis on production, transportation, erection, distribution, precasting equipment, unions, codes, costs, etc. Role of designers and engineers. Codes and standards, drafting, factory assembly lines and site construction methods. Understanding of industrial engineering, construction management, computers, GMP fast-tracking, prefabrication, and industrialization. Prereq: 4751 and 4752.

4761-62 Systems Design Laboratory I, II (8, 8) A vertical multidisciplinary and design research systems laboratory and studio, integrating simultaneously, undergraduates, graduates, professionals, intra-disciplinary and extra-disciplinary experience. Total systems ("software" and "hardware") approach to individual and group problems. Prereq: 4761. Development, researching, probing and analyzing the problem and the system process. Application of new ideas, approaches and concepts to design and systems, and application of new systems designs and forms, architecturally and with design systems, three dimensionally and in mock-ups, using new materials and techniques. Coordination of the total systems process.

4765 Thesis/Systems Laboratory (16) Independent problem undertaken by individual or students to which significant contribution is made in art and/or science of systems design, building and architecture. Prereq: Approval of the systems building coordinator and the completion of the systems building core.

4771-72-73 Advanced Mechanical and Electrical Systems (4, 4, 4) In-depth study of analysis and design of heating, ventilating, air-conditioning systems, lighting, power and electrical distribution in buildings. Prereq: 4716.


4780 Fire Protection in Structures (4) Fire protection aspects of buildings and their occupants. Centrally and remotely controlled fire and smoke detection systems and sprinklers. Prereq: Audio & Speech Path. 4750 or Mechanical Engr. 4220.

4800 Elementary Structural Matrix Methods (4) Introduction to the generalized matrix methods of analysis of structural systems. Structural system of matrices and vectors: development of member stiffness and flexibility matrices; assembly of structure stiffness and flexibility matrices. Prereq: Consent of instructor. (Same as Civil Engineering 4850 and Engineering Science and Mechanics 4850.)

4900 Aspects of Urban Environment (4) Interdisciplinary course in urban problems. Prereq: Consent of instructor. Satisfactory completion of Urban Serv. 4900, Political Science 4900, Psychology 4900 and Real Estate 4900.)

4910 Architectural Photography (4) Use of photography in a design research and presentation medium. Emphasis on architectural photography using black and white media.

4920 Advanced Architectural Photography (4) Application of special photographic techniques with emphasis on on-site viewing and processing. Prereq: Consent of instructor.

4940 Proxemics (4) Seminar for graduate students & upper division students. Introduction to proxemic research. Definition of proxemic variables. Proxemic research. Theories of proxemic behavior and the identification of proxemic categories. Observer bias and methods of bias reduction. Members of seminar required to design, conduct, and present original proxemic research. Prereq: 2000 or consent of instructor.

4950 Environment as Code (4) Advanced lecture of graduate students and upper division students. Advanced lecture course of theoretical issues involved in considering environment as a medium of human communication. Codes and the decoding of coding behavior in animals and man. Relationships between coding behavior and the organization of the central nervous system. Coding and social behavior. Communication process as a generic model of man-environment relations. Hierarchical aspects of environment communication. Prereq: 4900 or consent of instructor.

ACCELERATED CORE COURSE DESCRIPTIONS

4020 Accelerated Visual Studies (4) Identification and application of theories and methodologies of graphics analysis and communication principles, i.e., principles of visual coding and ordering applicable to behavioral descriptive. Analytic properties and notation exercises. Analysis of elic data and the identification of ecocentric categories. Observer bias and methods of bias reduction. Members of seminar required to independently research aspects of environment study area for presentation to the accelerated seminar supplement. Prereq: Admission to the accelerated core program.

4021 Accelerated Basic Design and Analysis I (4) Investigation of the design and behavior of complex physical systems. Theories and methodologies of optimization applicable to design decision making. Theories and methodologies of optimization are investigated through controlled and experimental design exercises. Prereq: 4020.

4022 Accelerated Analytical Studies I (4) General systems theory and methodology applicable to design decision-making processes and design methodologies. Contextually, study of systems theory using teaching and learning are investigated through controlled and experimental design exercises. Prereq: 4020.

4023 Accelerated Basic Design and Analysis II (4) Investigation of human response to varied configurations of built environments. Knowledge of response to human behavior and activity patterns applied through design process to create new environmental forms subjected to performance evaluation measured to anticipated response. Experimental design exercises will include varied problem types and scales. Exercises will be based on specific research methods and design methodologies. Prereq: 4020 and 4022. Coreq: 4024.

4024 Accelerated Analytical Studies II (4) Basic research methods and Reed programming techniques. Presentation of information and skills necessary for collecting, ordering, manipulating, analyzing, displaying, and interpreting information. Methods and techniques for systematic, controlled, and critical research and evaluation purposes. Objective is to be qualified with fundamental concepts and techniques to utilize potential of electronic data processing technologies as a research tool. In addition to the regular lecture series of 2016, students are required independently to research aspects of study area for presentation to an accelerated seminar supplement. Prereq: 4020. Coreq: 4023.

4025 Accelerated Historical Studies I (4) Resemblance of historical and environmental development of the man-made environment. Concepts of ethics, aesthetics and criticism along with methods of historical research and analysis are introduced as a means of studying the classical tradition of architecture. In addition to the regular lecture series of 1005, students are required independently to research aspects of study area for presentation to the accelerated seminar supplement. Prereq: Admission to the accelerated core program.

4026 Accelerated Historical Studies II (4) Concentrated examination of development of twentieth-century design and architectural theory and practice through the derivative or counter point to events of historical development. Events occurring in specific time frames of preindustrial and industrial periods are contextualized to demonstrate potential developments in the emerging post-industrial era. In addition to the regular lecture series of 2005, students are required to independently research aspects of study area for presentation to the accelerated seminar supplement. Prereq: Admission to the accelerated core program.

4027 Accelerated Man-Environment Systems (4) Study of causal, descriptive, behavioral and predictive properties of human and environmental systems. Understanding their role in the development of cultural response variations to eco/socio/physical change illustrate interdependence of human systems, society systems, and physical systems. In addition to the regular lecture series of 2000, students are required to independently research aspects of this study area for presentation to the accelerated seminar supplement. Prereq: Admission to the accelerated core program.

4029 Accelerated Professional Practice (4) Examination of legal and professional responsibilities of architect in servicing contractual agreements; contract documents, contract administration, code enforcement, safety and insurance, environmental consideration, project production and management, cost control, budget, progressive and construction management. Prereq: Admission to the accelerated core program.