

COLLEGE OF ARCHITECTURE AND PLANNING

www.bsu.edu/cap

Architecture Building 104, (765) 285-5861

Dean of the College: Joseph J. Bilello

Associate Dean: Michel Mounayar

The College of Architecture and Planning, established by the Indiana Legislature in 1965, is dedicated to the development of professional competency in the functional, aesthetic, and humane design of the physical environment. The primary mission of the college is to offer undergraduate and graduate education programs of high quality in architecture, landscape architecture, and planning and such related subjects as historic preservation and urban design. The college also stresses scholarly and creative activity and public service, including educational service to university students, professionals, and the general public.

The college enrolls approximately 500 students and has more than 45 faculty and professional staff members. Because members of the college faculty have a wide variety of educational and experiential backgrounds and expertise, they approach their work in different ways. The curricula stress dedication, initiative, and a strong commitment to creativity, technical skill, and social and professional responsibility.

The programs are supported by extensive resources. The architecture library contains more than 27,000 volumes. A collection of 60,000 slides is available for use by students as well as faculty members. The Drawings and Documents Archive maintains architectural, planning, and landscape architectural drawings and other materials documenting significant historic sites and structures in Indiana. Each graduate student is assigned individual work space in a studio or graduate office. Additional facilities in the college include wood and metal shops, photography labs, computer labs, a video lab, a media lab, and a mobile lab to support off-campus studies.

COLLEGE OF ARCHITECTURE AND PLANNING (CAP)

500 Community-Based Projects Workshops. (1-3) Independent study in urban design, planning, landscape architecture, and architecture, offered in conjunction with the college's Community-Based Projects Program. A multidisciplinary approach to problem solving in collaboration with faculty and professional consultants.

Prerequisite: permission of Community-Based Projects coordinator. A total of 3 hours of credit may be earned.

505 Context for Design and Planning. (2) An intensive immersion introducing principles and introductory skills necessary to the design and planning of the environment. May include field study, historical case studies, philosophical issues, overview of professional practice skills, technology, vocabulary and concepts, and opportunities for interdisciplinary studies.

Prerequisite: permission of the instructor.

581 Introduction to Computer-Aided Design 1. (3) Introduction to two-dimensional computer-aided design

using micro- and large computer CAD systems, hardware and operating system concepts, and drawing editing commands. Emphasizes environmental design and planning applications.

Prerequisite: permission of the dean of the College of Architecture and Planning.

582 Introduction to Computer-Aided Design 2. (3) A continuation of CAP 581 in a three-dimensional environment. Introduction to the drawing environment, view manipulation, projections, coordinate systems, and hidden-line and hidden-surface shading. Emphasizes environmental design and planning applications.

Prerequisite: CAP 581; permission of the dean of the College of Architecture and Planning.

598 Special Projects in the College of Architecture and Planning. (1-3) Special projects in the College of Architecture and Planning undertaken by groups under faculty direction.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

Open only to CAP graduate students, or by permission of the associate dean.

ARCHITECTURE

www.bsu.edu/cap/arch

Architecture Building 402, (765) 285-1900

Chairperson: Brian R. Sinclair

Director of Master of Architecture Program: Wesley Janz

Director of Master of Science in Historic Preservation Program: James A. Glass

Graduate Faculty: Bilello, Chiuini, Costello, deBrea, Eggink, Faber, Fernandez-Gonzalez, Flores, Glass, Harwood, Herget, Janz, Kendall, Klinger, Koester, Lindseth, Nay, Norman, Seager, Sinclair, Spodek, Swartz, Wolner

PROGRAMS

Master of architecture (M.Arch.) and master of science (M.S.) in historic preservation

MASTER OF ARCHITECTURE

Admission

The professional master of architecture degree (M.Arch. I) is the second component of architectural education at Ball State University for students who

seek licensure in the profession and who enroll in fall semester 2002 or later. It is accredited by the National Architectural Accrediting Board (NAAB).

Applicants to the M.Arch. I program must meet the admission requirements of the Graduate School and must have the approval of the Department of Architecture. A portfolio is required as part of the application process.

Applicants must hold a baccalaureate degree from an accredited program in architecture or equivalent or may be required to take additional course work.

Ball State also offers another graduate degree in architecture, M.Arch. II, a post-professional program open only to those who already hold an accredited professional degree in architecture.

MASTER OF ARCHITECTURE I

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
ARCH	501	Env Dsgn Stu (3-8)	5
	502	Arch Dsgn Stu	6
	525	Env Dsgn Sem	3
	526	Fund Hist Pres	3
	527	Hst Phl Th 1	3
	552	Arch Res	3
	559	Pract Mngt	3
	570	Env Sys 2	3
	627	Hst Phl Th 2	3
THES	698	Thesis (1-6)	6
Electives			9
			47 hrs

MASTER OF ARCHITECTURE II

Core area	9-12
Optional area	9-12
Thesis or creative project	6
Electives	6
30 hrs	

The core area may be waived depending on the student's background and research interest; however, the minimum requirement for the M.Arch. II degree is 30 hours of graduate credit. Areas of specialization available are architectural design; urban design; architectural history, preservation, and restoration; environmental science and technology; and communication technologies and design. The curriculum offers, in addition to greater depth of specialization than is possible at the undergraduate level, interdisciplinary study and studio

participation with the graduate programs in landscape architecture and urban and regional planning. Each candidate's plan of study will be tailored to his or her specific needs.

Students are required to complete a 6-hour thesis or creative project. The candidate will take a final oral examination given by a committee on completion of the thesis or creative project.

MASTER OF SCIENCE IN HISTORIC PRESERVATION

This program offers students from diverse undergraduate backgrounds a solid academic foundation and the preparation necessary to undertake professional careers in historic preservation. Graduates of the program enter a wide variety of positions in both the public and private sectors. The intent of the program is to prepare professionals qualified to deal with the complex problems that arise in rejuvenating the historic cores of cities, in maintaining a sense of identity in small communities, in revitalizing neighborhoods, in restoring historic sites, and in rural preservation. Students are exposed to a variety of preservation organizations and speakers and are encouraged to participate in community and state activities.

The curriculum also offers students opportunities to take multidisciplinary courses and engage in projects involving architecture, urban planning, landscape architecture, archaeology, history, business, and other related fields.

The M.S. in historic preservation is a two-year degree program. The first year is devoted to courses in basic theory, concepts, and supervised field experience. An internship is served with a private or public preservation agency. In the second year, students have an opportunity to examine more technical or specialized areas of interest and to bring these experiences to bear on the required thesis or 6-hour creative project.

A three-term option—a specialization in architectural history, preservation, and restoration under the master of architecture degree—is available to students holding professional degrees in architecture from accredited institutions.

Admission

Applicants must meet the admission requirements of the Graduate School. Admission to the M.S. in historic preservation also requires departmental permission. Because of the program's interdisciplinary nature, most undergraduate fields of study are considered appropriate.

Transfers of credit toward the graduate degree are reviewed individually. Up to 14 semester hours or 20 quarter hours of credit taken at the fifth-year level in architecture and planning in an accredited five-year program may be transferred if such courses meet the student's curricular requirements. In addition, up to 14 semester hours or 20 quarter hours taken at accredited institutions may be transferred if taken for graduate credit. If students are not transferring credit at the fifth-year level, 28 semester hours or 40 quarter hours of graduate credit may be transferred. The amount of transfer credit accepted will not exceed 28 semester hours or 40 quarter hours.

Master of Science in Historic Preservation, 56 hours

Degree Requirements

PREFIX	NO	SHORT TITLE	CR	HRS
ARCH	506	Historc Dsgn	6	
	528	Hst N A Arch	3	
	530	ARCH Midwest	3	
	540	Intro H P	3	
	541	Pr Law Plan	2	
	542	Doc Bld 1	2	
	544	Pres Econ	2	
	545	Doc Bld 2	2	
	547	H P Tech 1	2	
	549	H P Tech 2	2	
	573	Directed Res	2	
	669	Int Pres Res	4	
	674	Th Prop	1	
	696	Th Prep	3	
PLAN	605	Design Tech (1-3)	1	
THES	698	Thesis (1-6)	6	
Electives			12	
				56 hrs

The selection of electives will be made in consultation with the program director. One elective must be taken in history of architecture, landscape architecture, or urban planning.

The candidate will take an oral examination given by a committee on the completion of the thesis or creative project.

ARCHITECTURE (ARCH)

501 Interdisciplinary Environmental Design Studio. (3-8) An interdisciplinary approach to the resolution of problems in environmental design. The determination of an appropriate project will be by consultation between the student and his or her graduate committee.

A total of 8 hours of credit may be earned.

Not open to students who have credit in PLAN 506.

Open only to graduate students in architecture, landscape architecture, and urban and regional planning.

502 Architectural Design Studio. (6) Preparation and development of a thesis or creative project. Conducting research, writing, and design explorations in consultation with a thesis committee.

Prerequisite: ARCH 527.

506 Historic Preservation Design Studio. (6) Selected problems and issues in historic preservation at all scales in an applied context. Opportunity to implement concepts learned in a creative environment. Field trips to project sites.

Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director.

521 Topics in the History of Oriental Architecture. (3) Analysis of theoretical, cultural, and historical determinants as they may be applied to a selected array of architects and buildings from the Islamic world to the Far East.

Prerequisite: permission of the department chairperson.

Not open to students who have credit in ARCH 421 or the equivalent.

525 Interdisciplinary Environmental Design Seminar. (3) Seminars and independent study in the prevailing philosophies of environmental design. Stresses the interaction of the historical and contemporary philosophies of architecture, landscape architecture, and urban and regional planning.

Open only to graduate students in architecture, landscape architecture, and urban and regional planning and by permission of the department chairperson.

526 Fundamentals of Historic Preservation for Architects. (3) Introduces the special qualities of historic properties and the importance

of such properties in providing a varied and interesting architectural character to communities and rural areas.

Emphasizes skills in documenting historic properties and in developing familiarity with criteria and standards for identifying such properties and rehabilitating them appropriately. The economics of historic preservation, preservation law, and Section 106 reviews are also investigated.

Not open to students who have credit in ARCH 426.

527 History, Philosophy, and Theory of Architecture 1. (3) Investigation of issues, principles, or ideologies in the study of architecture from historical, theoretical, and critical perspectives. Includes readings, discussions, and research on a particular topic, theme, or set of issues proposed by the instructor.

Not open to students who have credit in ARCH 427.

528 History of North American Architecture. (3) American architecture and urbanism from its colonial beginnings to the present. Emphasizes European antecedents, transformation by American conditions, and the rise of distinctly American architecture. Discusses methods of disseminating architectural knowledge and conflicting points of view.

Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director.

Not open to students who have credit in ARCH 428 or equivalent.

530 History of Architecture, Planning, and Engineering in the Midwest. (3) Analysis of the development of architecture, planning, engineering (canals, railroads, roads, bridges), and industrial architecture in the American Midwest from the frontier period through the twentieth century. Field trips to selected sites.

Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director.

Not open to students who have credit in ARCH 430 or the equivalent.

532 Historic Architectural Interiors. (3) Survey of European and American interiors, interior architecture, furnishings, and decorative arts highlighting cultural influences from antiquity to the present with emphasis on eighteenth- to twentieth-century examples.

Prerequisite: ARCH 528 or equivalent.

Not open to students who have credit in ARCH 432 or its equivalent.

535 Topics in the History of Renaissance and Baroque Architecture.

(3) Analysis of theoretical, cultural, and historical determinants as they may be applied to a selected array of architects and buildings from Europe between 1400 and the late 1700s.

Prerequisite: permission of the department chairperson.

Not open to students who have credit in ARCH 435 or equivalent.

537 Topics in the History of Nineteenth and Twentieth-Century Architecture.

(3) Analysis of theoretical, cultural, and historical determinants as they may be applied to a selected array of architects and buildings from around 1800 to the present.

Prerequisite: permission of the department chairperson.

Not open to students who have credit in ARCH 437 or the equivalent.

540 Introduction to Historic Preservation. (3) Survey of history and philosophy of preservation in the United States and Europe. Emphasizes origins of current philosophies and approaches to preservation in the United States and the variety of organizations and agencies involved in preservation.

Prerequisite: graduate status in the College of Architecture and Planning; permission of the program director.

Not open to students who have credit in ARCH 440; LA 420.

541 Historic Preservation Law and Planning. (2) Survey of fundamental legislation in the preservation field at federal, state, and local levels. Emphasizes applying knowledge of laws and regulations to actual situations in practice. Survey of types of preservation planning used by federal, state, and local governments.

Prerequisite: graduate status in the College of Architecture and Planning; permission of the program director; ARCH 540.

Not open to students who have credit in ARCH 441.

542 Documentation and Registration of Historic Properties 1. (2) Introduction to the methods of recording and registering historic properties, including buildings, structures, districts, landscapes, objects, and archaeological

sites, using both written and graphic means. Emphasizes projects and exercises involving descriptions and statements of significance for historic properties.

Prerequisite: graduate status in the College of Architecture and Planning; permission of the program director.

Not open to students who have credit in ARCH 442.

543 Field Workshop in Preservation.

(3–6) Special and timely projects addressing real-world problems in historic preservation, undertaken in groups.

Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director.

Not open to students who have credit in ARCH 443 or equivalent.

544 Economics of Historic Preservation.

(2) Developing skills in assessing the economics of preserving historic properties. Emphasizes exercises involving feasibility studies, pro formas, revolving funds, and identification of feasible users. Surveys also Main Street Program and heritage tourism and heritage areas as revitalization techniques.

Prerequisite: graduate status in the College of Architecture and Planning; permission of the program director; ARCH 540.

Not open to students who have credit in ARCH 441.

545 Documentation and Registration of Historic Properties 2. (2) Application of skills and principles learned in ARCH 542 in a registration or documentation project.

Prerequisite: graduate status in the College of Architecture and Planning; permission of the program director; ARCH 542; PLAN 605.

Not open to students who have credit in ARCH 442.

547 Historic Preservation Technology 1.

(2) Survey of the materials and systems of construction used in historic buildings and the causes of deterioration, obsolescence, and failure in buildings. Emphasizes developing diagnostic skills through field investigations and laboratory analysis and exercises.

Prerequisite: graduate status in the College of Architecture and Planning; permission of the program director.

Not open to students who have credit in ARCH 447.

549 Historic Preservation Technology 2.

(2) Survey of the methods and philosophies of conservation and rehabilitation for historic buildings. Emphasizes identifying appropriate solutions to problems of deterioration and appropriate rehabilitation and restoration approaches. Field trips and laboratory analysis and projects.

Prerequisite: graduate status in the College of Architecture and Planning; permission of the program director; ARCH 547.

Not open to students who have credit in ARCH 449.

552 Architectural Research. (3)

Experience in architectural inquiry: the contexts, definitions, and processes of design creativity; relationships to scientific and environmental design and behavior research; technology-related research; strategies in building and testing concepts, assumptions, hypotheses, empirical evaluation; methods and procedures.

559 Professional Practice and Management. (3)

Problems, processes, and philosophies of architectural practice. Emphasizes applied organizational and management theories, processes, and tools.

Not open to students who have credit in ARCH 459.

564 Architectural Photography. (3)

An introduction to the basic technical, observational, and compositional skills and knowledge required for sensitive and competent description of architecture through the photographic medium. Assumes no previous experience but requires that students have their own suitable cameras and basic design abilities.

Prerequisite: CAP 102 or equivalent experience in basic design.

570 Environmental Systems 2. (3)

Application of the principles of physics to the design and engineering of environmental systems in buildings and technologies of active intervention.

Prerequisite: ARCH 370 or equivalent.

Not open to students who have credit in ARCH 372.

572 Contemporary Preservation Practice. (3)

Seminar with regionally and nationally distinguished preservationists in continuing outside activities through a series of case studies.

Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director.

573 Directed Research. (2) Methods of conducting primary and secondary research to produce academic papers, theses, creative projects, and publishable reports or articles; survey of principles of scholarly professional writing. Emphasizes exercises that develop skills in research and writing.

Prerequisite: graduate status in the College of Architecture and Planning; permission of the program director.

574 Architectural Aspects of Archaeological Fieldwork. (3) Archaeological methods applied to architectural remains. Principles of stratigraphic excavation, dating methods, and techniques for surveying and recording; technical and comparative analysis of building elements for purposes of dating, interpretation, and reconstruction.

Not open to students who have credit in ARCH 474.

583 Life Safety in Architecture and Environmental Design. (3) Survey of topics relevant to life safety encompassing wind, fire, ground motions, environmental conditions (including noise and criminal activity), home accidents, and matters pertaining to the Occupational Safety and Health Act (OSHA).

Not open to students who have credit in ARCH 483.

590 Independent Projects. (1–4) Environmental topics.

Prerequisite: approval of the program proposal by the faculty advisor and the department chairperson.

A total of 8 hours of credit may be earned, but no more than 4 in any one semester or term.

592 Psychological Aspects of Environmental Design. (3–6) Review of attempts to discover rational methods for predicting and evaluating environmental design. Basic research and analysis methods from the designer's point of view. Lecture, studio, and field activities.

Prerequisite: for students with majors other than architecture or landscape architecture; permission of the department chairperson.

A total of 6 hours of credit may be earned.

Not open to students who have credit in ARCH 492.

596 Facility Programming. (3) Problems and methods leading to the development of user requirements and their translation into facility performance criteria.

Prerequisite: graduate standing.

598 Special Projects in Architecture. (3–6) Special and timely architectural projects undertaken by groups of students.

Prerequisite: graduate status in the College of Architecture and Planning.

A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.

627 History, Philosophy, and Theory of Architecture 2. (3) Investigation of issues, principles, or ideologies in the study of architecture from historical, theoretical, and critical perspectives. Includes readings, discussions, and research on a particular topic, theme, or set of issues proposed by the instructor. Continuation of ARCH 527.

Prerequisite: ARCH 527.

669 Internship in Historic Preservation. (4) A ten-week period of approved employment with a national, state, or local organization engaged in professional preservation work, or participation in an approved preservation activity, typically undertaken during the summer.

674 Thesis or Creative Project Proposal. (1) Selecting a topic for the master's thesis or creative project and preparing an acceptable proposal.

Prerequisite: ARCH 573; permission of the program director.

696 Thesis or Creative Project Preparation. (3) Conducting research and writing or preparing the thesis or creative project under the direction of the thesis committee.

Prerequisite: ARCH 573, 674; permission of the program director.

LANDSCAPE ARCHITECTURE

www.bsu.edu/cap/landscape

Architecture Building 226, (765) 285-1971

Chairperson: Malcolm Cairns

Graduate Advisor: Martha Hunt

Graduate Faculty: Benson, Blaloch, Cairns, Cruz, Ferguson, Hall, Hoover, Hunt, Motloch, G. Smith, L. Smith, Spangler

Landscape architecture involves the coordinated planning and design of land. It applies aesthetic and scientific principles in arranging objects and spaces on the landscape for human use, enjoyment, safety, health, and welfare. Landscape architecture is based on the recognition of long-term ecologic, economic, social, and psychological values. It embraces the conservation of natural resources and the design of land for specific purposes.

Landscape architects provide professional services for site planning, land-use projects, and feasibility studies and may be assisted by such allied professionals as architects, engineers, planners, ecologists, geologists, geographers, hydrologists, biologists, economists, and sociologists. Understanding the potentials and limitations of natural systems (soils, water, vegetation, wildlife, and climate) provides the basis for responding to complex problems of land use.

The M.L.A. program is open to any qualified student holding any baccalaureate degree. Ball State University's programs in Landscape Architecture are fully accredited by the Landscape Architecture Accreditation Board of the American Society of Landscape Architects.

MASTER OF LANDSCAPE ARCHITECTURE (M.L.A.)

Admission

Applicants must meet the admission requirements of both the Graduate School and the Department of Landscape Architecture.

Degree Requirements

Program 1: 39 hours (graduate)

Students with degrees in landscape architecture from a Landscape Architecture Accreditation Board-accredited program are required to enroll in the following minimum program of study.

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
LA	635	Methods	3
	651	Res Meth	3
	653	Readings	3
LA		electives	6-12
Electives			12-18
THES	698	Thesis (1-6)	6

39 hrs

At least one elective must be a studio course. **Computer competency in Micro Station is the responsibility of the student.** Candidates will complete a minimum of 39 hours of graduate work, 19 hours of which must be taken at Ball State University.

Program 2: 46 hours (graduate), 17 hours (undergraduate)

The following is the required program of study for candidates holding professional degrees in related environmental design and planning areas (i.e., architecture, interior design, urban and regional planning, etc.). Foundation courses at the undergraduate level are required for all candidates in this program except where prior equal course work is documented. **Computer competency in Micro Station is the responsibility of the student.** This degree program is known as a first professional degree program in landscape architecture.

PREFIX	NO	SHORT TITLE	CR	HRS
LA	573	Envirn Sys	3	
	602	Site Design	4	
	603	Com/Urb Des	4	
	604	Plan and Des	4	
	605	Land Plan 1	4	
	622	L A Hist	3	
	635	Methods	3	
	645	Plant Des	3	
	651	Res Meth	3	
	653	Readings	3	
	668	Intern (0)		
	or			
	669	Pd Intern (0)	0	
Electives			6	
THES	698	Thesis (1-6)	6	

46 hrs

Foundation undergraduate courses

LA	311	L A Engineer 1	4	
	312	L A Engineer 2	4	
	341	Plants 1	4	
	413	L A Engineer 3	4	
	460	Pro Practice	2	

18 hrs

Program 3: 54 hours (graduate), 21 hours (undergraduate)

The following is the required program of study for candidates not holding professional degrees in landscape architecture or related environmental design and planning areas. Foundation courses at the undergraduate level are required for all candidates in this program except where prior equal course work is documented. This degree program is known as a first professional degree program in landscape architecture.

PREFIX	NO	SHORT TITLE	CR	HRS
LA	500	L A Context	1	
	573	Envirn Sys	3	
	601	L A Des Prin	4	
	602	Site Design	4	
	603	Com/Urb Des	4	
	604	Plan and Des	4	
	605	Land Plan 1	4	
	622	L A Hist	3	
	635	Methods	3	
	645	Plant Des	3	
	651	Res Meth	3	
	653	Readings	3	
	661	Des Com	3	
	668	Intern (0)		
	or			
	669	Pd Intern (0)	0	
Electives			6	
THES	698	Thesis (1-6)	6	

54 hrs

Foundation undergraduate courses

LA	280	L A Comp App	3	
	311	L A Engineer 1	4	
	312	L A Engineer 2	4	
	341	Plants 1	4	
	413	L A Engineer 3	4	
	460	Pro Practice	2	

21 hrs

Other courses may substitute for LA 280 with departmental approval.

All M.L.A. candidates are also required to make a public presentation upon completion of a thesis or creative project.

All M.L.A. candidates will also enroll in the department's internship program if they have had no previous work experience under a registered landscape architect. A student will receive 3 hours of credit for a landscape architecture internship upon completion of one documented period of approved employment or of an approved work-study program directed by a registered landscape architect faculty member in the department.

LANDSCAPE ARCHITECTURE (LA)

500 Context for Landscape Architecture. (1) An intensive immersion introducing principles and introductory skills necessary to the design and planning of the environment. May include field study, historical case studies, philosophical issues, overview of professional practice skills, technology, vocabulary and

concepts, and opportunities for interdisciplinary studies.

Prerequisite: permission of the department chairperson.

520 Regional Landscape Architectural History. (3) Major representative samplings of cultural developments and forces affecting evolution and transformation of the structure, pattern, image, and function of the midwestern landscape.

525 Historic Landscape Preservation. (3) Theory, concepts, methods, and case studies in historic design and cultural landscape preservation.

530 Philosophy of Landscape Architecture. (3) Seminars and independent study of the background and development of prevailing philosophies of landscape architecture.

Not open to students who have credit in LA 430.

531 Rural Landscape. (3) Lectures, seminars, and field study focusing on the rural landscape of Indiana and the Midwest. Issues of policy and management of resources, land-use practices, and various other conditions, both natural and human-made, as they relate to landscape architecture.

538 Park and Recreation Planning and Design. (3) Interdisciplinary relationships in comprehensive and site-specific community recreation and park planning and design. A joint offering with the Indiana University Department of Recreation and Park Administration, presented over the Indiana Higher Education Telecommunications System.

573 Environmental Systems and Structures. (3) Qualitative investigations and analyses of and research in landscape systems. Studies include assessments of vegetation, climate, hydrology, soils, and surface geology as determinants of landscape architectural form; natural processes as they relate to the principles of landscape architectural construction.

590 Independent Projects. (1-9) Independent study in environmental topics relevant to landscape architecture.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

598 Special Projects in Landscape Architecture. (1-9) Special and timely

landscape architectural projects undertaken by groups of students.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

601 Principles of Landscape Architectural Design. (4) Design projects, exercises, lectures, and field studies to develop awareness of principles and concepts integrating natural and cultural elements in the landscape.

602 Site Design. (4) Continued applications of basic design principles, programming, and site analysis reinforcing design processes and visual thinking in the design of sites. Emphasizes open space planning and park design. May include projects in natural, rural, and urban settings. Computer applications as appropriate.

Prerequisite: LA 601 or departmental permission.

603 Community and Urban Space Design. (4) Continued application of principles of landscape architecture to community and neighborhood scale projects of increasing complexity, including housing, commercial and urban land planning, and development issues. Additional issues addressed include human behavioral principles and planting design concepts as they relate to landscape architectural spaces. Computer graphic and CAD techniques as appropriate.

Prerequisite: LA 602 or departmental permission.

604 Landscape Architecture Planning and Design. (4) Staged projects progressing through regional land planning and site design scales. Includes landscape planning (manual or G.I.S.), overlay assessments, historic and cultural landscape conservation planning and design, and site design applications.

Prerequisite: LA 603, 635, or departmental permission.

605 Comprehensive Landscape Planning and Design. (4) Faculty-directed landscape architectural planning and design problems and projects. Student-initiated components in concentration area leading to thesis/creative project development. Weekly peer reviews and interim public presentation will be required in the

course of development of the thesis or creative project.

Prerequisite: advisor selected for the thesis or creative project and proposal developed; LA 651, 653, and 604 or departmental permission.

606 Comprehensive Site Design 1. (4) Comprehensive site-scale design from the concept stage through detail documentation.

Prerequisite: LA 603 or permission of the instructor.

622 Landscape Architectural History. (3) Lecture and discussion on contributions of various cultures and eras to the landscape and their relationship to current issues in landscape design and theory.

631 Topical Seminars. (1) Issues, case studies, guest professionals, and student presentations relevant to broadening understanding of the diverse profession of landscape architecture.

635 Landscape Architecture Methods. (3) Theories and methods related to landscape planning, historic landscape preservation and conservation, and site designs.

645 Planting Design. (3) Use of plants as landscape-design elements; related specifications and detailing. Introduction to cost estimating.

Prerequisite: LA 341 or permission of the instructor.

651 Research Methods in Landscape Architecture. (3) Introduction to critical issues, methods, procedures, and techniques for comprehending, evaluating, and undertaking research, with an emphasis on proposal development.

Parallel: LA 653.

653 Readings in Landscape Architecture. (3) Directed and selected readings and written reports to broaden perspective in landscape architecture. Preliminary investigation for the literature review of the thesis/creative project.

661 Design Communications. (3)

Theory and application in design communication, including free-hand and technical drawing and presentation skills. Includes demonstration of computer automated drafting (CAD) and computer graphic simulation technologies.

668 Landscape Architecture Internship. (0)

Minimum of one semester of supervised, unpaid employment under the direction of a landscape architect or allied-design professional. Departmental approval required in advance of qualified employment. Required employer and self-evaluation reports. Offered on a credit/no-credit basis only.

Not open to students who have credit in LA 669.

669 Landscape Architecture Internship. (0)

Minimum of one semester of supervised, paid employment under the direction of a landscape architect or allied-design professional. Departmental approval required before qualified employment. Requires employer and self-evaluation reports. Offered on a credit/no credit basis only.

Not open to students who have credit in LA 668.

690 Independent Projects. (1-3)

Independent study in environmental topics relevant to landscape architecture.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

698 Special Projects in Landscape Architecture. (1-3) Special and timely landscape architecture projects undertaken by students in groups.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

URBAN PLANNING

www.bsu.edu/cap/planning

Architecture Building 327, (765) 285-1963

Chairperson: Bruce Frankel

Graduate Advisor: Francis H. Parker

Graduate Faculty: Frankel, Kelly, Keuhl, Keys, Parker, Perera, Schoen, Segedy, Truex

MASTER OF URBAN AND REGIONAL PLANNING (MURP)

The master of urban and regional planning is a two-year professional degree that prepares students for professional positions in city, county, metropolitan, regional, and state planning agencies; community development and preservation offices; economic development agencies; and with other public- and private-sector employers concerned with anticipating the future and with developing long- and short-range plans to achieve desired goals. Planners prepare plans for urban physical and economic development, taking into account the whole range of community needs and aspirations— social, economic, aesthetic, and environmental. Graduates are employed throughout the United States and in developing countries.

The graduate program prepares students in three kinds of professional skills: analytical, design and problem solving, and implementation. Analytical skills, including data collection and analysis, are necessary to understand large-scale urban systems. Design and problem-solving skills are necessary to develop plan proposals that respond to community needs creatively, and implementation skills ensure that plans can be carried out in the realm of actual politics and finances. The program stresses computer applications—using both micro- and mainframe computers for data management, numerical analysis, and graphic presentation. Fieldwork studios and classes address specific problems with outside clients. An internship in a planning office is normally required during the summer between the two school years.

Admission

Applicants must meet the admission requirements of the Graduate School and must also have the permission of the Department of Urban Planning.

Degree Requirements

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
PLAN	601	Plan Theory	3
	602	Intr Pln Mth	3
	603	Pl Technique	3
	605	Design Tech (1-3)	3
	610	Pln Anyl Stu	3
	611	Comp Pl Stu	3
	636	Urb Spatial	3
	652	Legal Aspect	3
	669	Pd Intern (0)	
	or		
	670	Internship (0)	0
	Electives in urban and regional planning		12
	Complete one of the following options (6 hours)		
PLAN	612	Com Dev Stu (3)	
	and		
RES	697	Research Ppr (1-3)	
	or		
THES	698	Thesis (1-6)	6
	Complementary electives from outside planning		6
			48 hrs

For students with a bachelor of urban planning and development (BUPD) or equivalent degree.

PLAN	603	Pl Technique	3
	612	Comp Dev Stu	3
	661	Issu The Prc	3
	669	Pd Intern	0
	696	Plan Res Mthds	3
THES	698	Thesis	6

Planning electives	9-12
Outside electives	6-9
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	36 hrs

Typical minors are general foundations of business, computer science, geography, natural resources, public administration, landscape architecture, and historic preservation.

A total of 15 hours of credit taken at the fifth-year level in architecture and planning in an accredited five-year program may be transferred if such courses meet students' curricular requirements. In addition, a total of 15 hours taken at an accredited institution may be transferred if taken for graduate credit. If students are not transferring credit taken at the fifth-year level, 30 hours of graduate credit may be transferred. In any event, the amount of transfer credit will not exceed 30 hours.

The candidates will take an oral examination given by a committee on completion of the thesis or creative project.

URBAN PLANNING (PLAN)

504 Urban Design. (3) An exploration of the physical form of the public realm and how it has been shaped by social, economic, political, and cultural forces. Special attention will be paid to issues of identity, sense of place, placemaking, and sense of belonging.

506 Environmental Design Studio. (3) An interdisciplinary approach to the resolution of problems in environmental design. Appropriate projects to be determined in consultation between the students and faculty.

507 Computer Techniques for Design and Planning. (3) Introduces a variety of software and applications techniques in remote sensing, mapping, perspective drawing, and database graphics for architecture, landscape architecture, and planning.

512 Introduction to Geographic Information Systems for Urban Planning. (3) Designed to introduce principles of GIS and GIS applications in an urban environment. Topics include GIS components, modeling methodology, and management of environments. Implications to urban and environmental policy development.

513 Advanced Concepts in Geographic Information Systems for Urban

Planning. (3) Advanced topics in modeling and analysis of urban and regional environments. Techniques for database organization, database development, and analytical processes (algorithm development).

Prerequisite: PLAN 512.

521 (537) Urban Land-Use Planning. (3) Planning the uses of land in urban areas. Land-use determinants, standards at the community level, information systems, preparation of land-use plans, and development of land-use control policies at the urban and county levels.

528 Urban Impact Analysis. (3) Urban and environmental impact requirements at federal, state, and local levels. Planning techniques used to analyze environmental, social, fiscal, and economic effects of new urban development.

529 Planning and Private Development. (3) The process of private-sector land development, including market analysis and site selection, physical design, financing, legal constraints, and assembly of the development package.

530 Housing and Community Development. (3) Public programs and private activities relating to the provision of affordable housing for all income levels. Topics include housing supply and demand, housing finance, the role of government subsidies, and coordinated policy for community development.

531 Urban Transportation Planning. (3) Transportation planning methods and policy, including analysis of travel demand, links between land use and transportation, choice of transportation modes, and design of balanced transportation systems.

533 Urban Environmental Planning. (3) Introduction to urban planning considerations for control and reduction of air, water, and land degradation, including waste management, noise pollution, and other side effects of urban development.

534 Regional Development Planning. (3) Seminar in techniques of regional planning analysis and policy formulation. Methods of integration of economic, ecological, and social objectives in regional development.

535 Energy Planning. (3) Energy resource issues in urban planning. Strategies for incorporating energy efficiency into housing, land use, transportation, social services, and community development. Analysis of energy policy, with emphasis on innovative public and private sector initiatives at the community level.

538 Regional Land-Use Planning. (3) Planning the uses of land at the regional, area, and state levels; interface between social, environmental, and land-use plans at the regional level; and land-use policies for critical-area management including the coastal zone.

539 Public Facilities Planning. (3) An introduction to the planning of public facilities systems including street and highway systems, water systems, wastewater, and solid waste management.

550 Neighborhood Planning. (3) Planning strategies for the revitalization of older residential neighborhoods and neighborhood commercial areas. Includes community organization and the role of public and private neighborhood organizations.

553 Planning Practice Workshop. (3) An eclectic practice course intended to sharpen the planning student's skills in report preparation, oral and visual presentation of complex issues, preparation of grant applications, and agency budgeting procedures.

554 Community Development Policy Planning. (3) Strategies of community development to achieve policy goals and objectives. Emphasizes interorganizational coordination of public and private interests in revitalizing urban communities.

555 Women and Urban Environments. (3) Examines the linkages between women and urban environments by focusing on the role played by the urban environment in facilitating or hindering women's access to economic, social and political opportunities. Domestic and international examples are used to illustrate concepts.

559 International Planning. (3) Exploration of the nature of the urban and regional planning process in other countries. Topics include development policies, planning strategies, institutional structures, implementation strategies, and accomplishments.

Attention also to the usefulness of these experiences to American cities.

560 Alternative and Sustainable Community Planning. (3) Seminar examining nontraditional approaches to community planning and design. Focuses on concepts associated with the design of sustainable communities. Historical precedent, case study, and utopian alternatives are synthesized to project alternative futures for present community planning and design issues.

577 History of Urban Form. (3) An examination of the historical transformation of the urban form and its elements. Focuses on the physical organization of the city in relation to social, economic, political, and cultural forces that have shaped it. Special attention will also be paid to non-Western urban forms and histories.

590 Independent Study in Planning. (1-9) Relevant research or a project under the direction of the planning faculty.

Prerequisite: approval of a written project or research proposal.

A total of 9 hours of credit may be earned.

598 Special Projects in Urban and Regional Planning. (3-9) Special projects in urban and regional planning undertaken by groups of students under faculty direction.

A total of 9 hours of credit may be earned.

601 Theory of Comprehensive Planning. (3) Introduction to the theory of urban and regional planning. Planning as a method of decision making and strategic choice, including setting goals, exploring alternatives, and implementing solutions. Evolution of planning theories in twentieth-century urban planning.

602 Introduction to Planning Methods. (3) Methods of quantitative analysis for planning, with emphasis on descriptive statistics. Sources for urban data and methods for transforming data into useful planning information. Topics include surveys, hypothesis testing, and regression techniques.

603 Planning Techniques. (3) Quantitative research and analytical techniques applicable to urban and regional planning. Use of statistical data. Computer programming, city

simulation, and organization of planning data banks.

605 Design and Presentation Techniques. (1-3) Introduction to graphic techniques and design processes. Lecture and studio exercises on problem solving and public presentation of findings. For planning and preservation students without undergraduate training in design.

A total of 3 hours of credit may be earned.

610 Planning Analysis Studio. (3) Analysis and design principles at regional, urban, and local scale, including environmental suitability, land use location criteria, and site planning criteria for greenfield or redevelopment sites. Students defend proposals based on analytical and design criteria.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

611 Comprehensive Planning Studio. (3) Application of substantive skills in a comprehensive planning exercise for an urban area, involving field work and a real location. Emphasizes the process by which comprehensive planning decisions are reached.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

612 Community Development Studio. (3) Community development scale planning, such as neighborhood revitalization, housing, or industrial renewal, with a real world setting and sometimes a real world client.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

636 Theory of Urban Spatial Planning. (3) Seminar in theories of location and development of principal urban activities including transportation, housing, industry, commercial centers, and public facilities. Implications for urban planning policies.

652 Legal Aspects of Planning Practice. (3) Introduction for nonlawyers to the

legal principles and practices related to planning in public agencies. Includes zoning, subdivision, and other land-use regulations and consideration of private property rights versus community objectives.

661 Planning Issues, Theory, and Practice. (3) Capstone seminar to explore application of theory to planning practice and management. Issues of planning ethics, citizen participation, styles of planning, and strategies for effective implementation of planning.

Prerequisite: PLAN 669 or 670 or permission of the department chairperson.

669 Planning Paid Internship. (0) Professional paid experience in an approved planning agency, consulting firm, or other planning organization, under competent supervision, for no fewer than 400 hours. The student submits periodic progress reports, writes a final paper, and is evaluated by the planning supervisor. Offered on a credit/no-credit basis.

Prerequisite: six courses (18 hours) of the planning curriculum and permission of the department chairperson.

670 Planning Internship. (0) Professional unpaid experience in an approved planning agency, consulting firm, or other planning organization, under competent supervision, for no fewer than 400 hours. The student submits periodic progress reports, writes a final paper, and is evaluated by the planning supervisor. Offered on a credit/no-credit basis.

Prerequisite: six courses (18 hours) of the planning curriculum and permission of the department chairperson.

696 Planning Research Methods. (3) Issues, methods, and applications of research in urban and regional planning. Evaluation and testing of planning proposals. Design and submission of a formal research proposal, typically the basis for the thesis or creative project.

Prerequisite: permission of the department chairperson.