Contents

General Information ................................................................. 63
Admission .................................................................................. 63
Degrees/Majors ......................................................................... 63
Minors ...................................................................................... 64
Graduation Requirements ....................................................... 64
Professional Registration ....................................................... 64
Advising ................................................................................... 64
Policies .................................................................................... 64
Special Learning Opportunities and Resources ......................... 65
International Programs .......................................................... 65
Career Information .................................................................. 65
Student Organizations .............................................................. 65
Directory .................................................................................. 65
Degree Programs and Minors ................................................... 66
  Architecture ............................................................................ 66
  Accelerated Status in Architecture ......................................... 67
  Architecture Minor .................................................................. 67
  Environmental Design ............................................................ 67
  Accelerated Status in Environmental Design ......................... 69
  Environmental Design Minor ................................................ 69
  Design Minor ......................................................................... 70
College of Architecture and Landscape Architecture

General Information

The College of Architecture and Landscape Architecture (CALA) seeks to advance the quality and value of the designed environment. Faculty and students address fundamental questions about the meaning and experience of people’s physical settings: landscapes, cities, and buildings.

Design education lies at the core of CALA’s mission. CALA teaches design as the primary way in which architects, landscape architects, and urban designers shape and explore their ideas. Through design education, students develop creative powers of generalization and abstraction using analysis and synthesis. It also gives them a broad understanding of the arts, humanities, and sciences; a knowledge of technology, history, theory, and professional practice; the skills necessary to develop, explore, and describe design ideas; and a belief in the aesthetic, ethical, and environmental responsibilities of architects and landscape architects.

Offering the only accredited degrees in architecture and landscape architecture in Minnesota, CALA works within the guidelines of the National Architectural Accrediting Board (NAAB), the Association of Collegiate Schools of Architecture (ACSA), and the Landscape Architectural Accreditation Board (LAAB).

Facilities—CALA’s newly renovated and expanded building offers the best facilities in the country in which to study architecture and landscape architecture. Designed by internationally known architect Steven Holl, along with the local firms Vincent James Associates, Ellerbe Becket, and Rozeboom Miller Architects, the building features dramatic interior spaces, new equipment and furnishings, and outdoor teaching areas. The public artist, John Roloff, along with landscape architecture professor Rebecca Krinke, have also designed a provocative piece for the landscape.

In addition to ample classroom, studio, and office space, the college has specialized facilities available for student use. To support design studio activities, the CALA woodshop and its staff provide the tools and skills needed to turn ideas into objects, while the CALA imaging lab has photographic studio facilities and equipment for documenting projects, computer workstations for film scanning and digital video editing, and videos of lectures and presentations given by distinguished teachers and practitioners.

The CALA visual resources collection comprises approximately 100,000 slides to support student and faculty research and educational activities. The Architecture and Landscape Architecture Library provides full library services and has a collection of more than 34,675 volumes. The CALA computing center, open seven days a week, supports several operating systems and a variety of graphics software, including AutoCAD and ESRI Geographic Information Systems (GIS) applications, flat bed and slide scanners, large-format plotters, a variety of printers, and video capabilities. For more information on the college’s resources, see www.cala.umn.edu.

The Design Center for American Urban Landscape (DC/AUL)—DC/AUL, an urban design research unit within CALA, develops interactive educational projects in neighborhoods and communities, addressing national urban design and planning issues. The Design Center’s mission is to educate public and private decision makers, professionals, and citizens about the value of design in creating community-based development strategies and sustainable urban landscapes.

The Design Institute—This interdisciplinary unit within CALA encompasses several University colleges with design-related programs, including CALA; the Colleges of Education and Human Development, Human Ecology, and Liberal Arts; Hubert H. Humphrey Institute of Public Affairs; and Institute of Technology. The Design Institute seeks to position the University as a world leader in interdisciplinary design scholarship, education, and university-community partnerships. For information about a design minor, see Degree Programs in this section.

Admission

Freshman Admission—Students in their senior year of high school, or those who have a high school degree or recognized equivalent but have not studied at the college or university level, should apply to one of the freshman-admitting colleges through the Office of Admissions, 240 Williamon Hall, 231 Pillsbury Drive S.E., Minneapolis, MN 55455. CALA does not admit freshmen.

Admission to the Majors—The bachelor of science (B.S.) with a major in architecture, the bachelor of arts (B.A.) with a major in architecture, and the bachelor of environmental design (B.E.D.) degree programs have their own admission policies and procedures. For information regarding admission to the B.S. and B.E.D. programs, consult the areas in this section describing each program. For information on the B.A. degree, see the College of Liberal Arts section.

High School Preparation Requirements—If students have not satisfied high school preparation requirements, they will not be admitted to the architecture major or the environmental design major in landscape architecture and therefore will not be allowed to take upper division program courses. See Freshman Admission in the General Information section of this catalog.

CALA’s newly renovated and expanded building offers the best facilities in the country and features dramatic interior spaces, new equipment and furnishings, and outdoor teaching areas.

Degrees/Majors

Undergraduate—CALA offers a bachelor of environmental design (B.E.D.) degree; a bachelor of science with a major in architecture (B.S.) degree; and, in cooperation with the College of Liberal Arts (CLA), a bachelor of arts (B.A.) degree with a major in architecture. These are pre-professional degrees and students who want to become licensed architects and landscape architects need to take the two professional graduate degrees in CALA—the M.Arch and the M.L.A. The B.S. and the B.A. programs include an accelerated status option to allow qualified undergraduates to complete the undergraduate and master of architecture (M.Arch.) degrees in six years rather than seven. Qualified undergraduates may also complete the nonprofessional B.E.D. and the master of landscape architecture (M.L.A.) degrees in six years rather than seven.
Graduate—In conjunction with the Graduate School, CALA offers both professional and postprofessional, fully accredited graduate degree programs in architecture and landscape architecture. Descriptions of these programs are provided in the Graduate School Catalog.

Minors

CALA offers minors in architecture and environmental design and an interdisciplinary minor in design. Please see the Degree Programs section for details on these minors.

Graduation Requirements

Students are recommended for graduation after they complete the prescribed curriculum, including required and elective courses to meet the total number of credits required; earn a minimum cumulative GPA of 2.00 overall and in their major; and complete the necessary paperwork and meet the application deadlines. Two semesters before the expected graduation date, students should have an approved graduation check sheet on file with their department and the college office. In addition, students must turn in their graduation application to the Office of the Registrar. (Deadline extensions are not granted.)

Note: The College of Liberal Arts (CLA) grants a B.A. with a major in architecture. Students should check the CLA section of this catalog for information on CLA graduation.

Professional Registration

CALA provides Minnesota’s only accredited professional degree programs in architecture (the M.Arch.) and landscape architecture (the M.L.A.).

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recently reaccredited CALA’s M.Arch program for another six years without qualifications, and the Landscape Architectural Accreditation Board (LAAB) fully reaccredited the M.L.A. degree.

Masters degree programs require an undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However the preprofessional degree is not, by itself, recognized as an accredited degree.

For more information concerning professional registration, contact the Minnesota Board of Architecture, Engineering, Land Surveying and Landscape Architecture, and Interior Design (651-296-2388).

Advising

CALA Office of Student Services—This office serves students from their prospective visit to graduation. It assists students with registration, course access, degree programs, declaring a major, petitions, graduation clearance, commencement, and other student issues for all three of CALA’s majors. CALA student services also assists with access to the CALA mentor program, internship information, and career opportunities.

Prospective student advising provides general information about CALA’s degree programs, related professional fields in architecture and landscape architecture, admission and program requirements, and college services, and refers prospective graduate students to the appropriate department director of graduate studies.

Advisers are available by appointment or on a walk-in basis. To make an appointment with an adviser or the prospective student adviser, call 612-626-1000.

Department Advisers—CALA student services and the directors of undergraduate studies provide major and department advising for undergraduates in the B.S., B.A., and B.E.D. programs.

Policies

Computer Requirement—CALA students in studio classes are required to have a laptop computer. For the most current information about computer requirements, visit the CALA Web site at www.cala.umn.edu.

Course Load—The average course load per semester for CALA undergraduates is five courses (13-16 credits) to graduate in four years without taking summer session courses. One credit requires an average of three hours of work each week. Carrying more than 20 credits requires special permission from the college scholastic committee.

Repeating Courses—See Grading and Transcript Policy in the Policies section of this catalog.

Petition Procedures—Petitions are required for deviations from either college or major requirements. CALA students can pick up petition forms from either the CALA Office of Student Services or department offices. Petitions are submitted to the CALA student services office for a decision. A successful petition requires both college and department approval. To substitute a course for a requirement, the petition must be approved before the student registers for the course. Students should be sure their petitions have been approved before they register.

Academic Progress—Students are expected to make satisfactory progress toward their degree objectives. This means earning a grade of at least C- in all required courses, completing courses undertaken, and maintaining an overall GPA that meets University policies. For students with concerns about their academic progress, early consultation with instructors or an adviser is recommended. CALA evaluates academic progress and scholastic standing using semester and cumulative GPA reviews.

Student Conduct—CALA expects the highest standard of honesty and integrity in the academic performance of its students. When a case of scholastic dishonesty arises, the CALA faculty member who is the instructor for the course may modify the grade for the examination or piece of work in question or the course itself, or may refer the incident to the department head or the appropriate committee. In any case, the instructor must report to the department and to CALA the incident and the action taken. At the time of the action, the instructor informs the student of his or her right to ask for a hearing by the committee dealing with student conduct cases. Information on this process is available from the college office.

Grievances—Students with complaints or criticisms about courses or academic policies have recourse through grievance procedures. They are expected to first confer with the course instructor. If no satisfactory solution is reached, the complaint should be presented to the department head. If these informal processes fail, a department-level committee hears the evidence. Further appeals go to college-level and University-level committees. CALA student services advisers have experience interpreting college procedures and regulations and can often suggest suitable alternatives to solve a problem.
Rights to Student Work—The College of Architecture and Landscape Architecture reserves the right to retain for archival or exhibition purposes images of any student work executed as part of a CALA instructional program. In addition, the college reserves the right to document, reproduce, and publish such images in printed and electronic college publications for research, publicity, and outreach, giving publication credit to the creator/student.

Special Learning Opportunities and Resources

Visiting Lecturers and Critics—The CALA Lecture Series, aided by funding from supportive alumni and professionals, brings several nationally and internationally known practitioners and educators to the college each semester to address students, faculty, and interested practitioners on various topics in architecture, landscape architecture, and urban design. In addition, CALA has endowment funds designated to support visits by outstanding scholars. The H. W. S. Cleveland Visiting Professorship in Landscape Architecture and the Cass Gilbert Visiting Land-Grant Chair in Architecture endowments provide support for distinguished visitors who typically conduct seminars, give lectures, and, when appropriate, participate in design studio reviews. Students also receive design critiques from local and regional educators and practitioners during end-of-semester reviews.

Continuing Education—CALA offers continuing education courses for architecture and landscape architecture professionals through its Continuing Professional Studies program. Courses are designed to meet the content interests of the practitioner and are offered in short, convenient, seminar formats. For up-to-date information on classes, programs, and curriculum see www.cala.umn.edu/cps.

International Programs

Students are encouraged to incorporate a study abroad experience into their degree program. Each year CALA has arranged study trips for architecture and landscape architecture students to a variety of locations. In recent years these have included Europe, China, Meso-America, the Middle East, and the American Southwest.

CALA currently offers an undergraduate study abroad program in Oaxaca, Mexico. The city dates from 1529 when the Spanish first drew the outline of Oaxaca’s central square in the ground and is well known for its architectural heritage and as a city of the arts. This residential program meets specific degree requirements in the B.A. and the B.S. degree programs.

An exhibition of student work from the graduate and undergraduate study abroad programs is held at the beginning of fall semester.

For more information contact the Learning Abroad Center in 230 Heller Hall and at 612-626-9000, or CALA Office of Student Services at 612-626-1000.

Career Information

CALA departments have a long history of close association with their respective professional communities. Design professionals teach in the studios as adjunct faculty, and students are strongly encouraged to gain professional work experience before graduating from their professional degree program. A portion of a graduate student’s work experience may be applied to the three-year practice requirement for the professional registration examination.

The CALA Career Fair, featuring architecture and landscape architecture firms and Graduate School information, is held every spring.

Student Organizations

American Institute of Architecture Students (AIAS)—This independent, student-run organization informs students of current issues in architecture and promotes excellence in architectural education. AIAS is involved in various activities on local and national levels, including competitions, design charrettes, social activities, portfolio workshops, and college committee membership. In addition, AIAS works in conjunction with the American Institute of Architects and local firms to give students a tangible connection to the profession.

Minnesota Chapter of the American Society of Landscape Architecture Students (MASLAS)—This group, affiliated with the American Society of Landscape Architects, informs students of current issues in landscape architecture and provides an excellent connection to the profession. The group is involved in various activities, including the lecture series, competitions, design charrettes, social activities, and portfolio workshops.

CALA Student Board—The student board consists of 12 advanced undergraduate and graduate students. The board works toward the continued growth of a good working academic environment for students and faculty.

CALA Mentor Program—The mentor program has its roots as a student-founded and student-run organization. The mission of the program is to foster meaningful relationships between students and professionals of architecture, landscape architecture, and related fields.

The architecture and landscape architecture career fair gives students the opportunity to meet practicing professionals and discuss career tracks.

Directory

(area code 612)

Administrative Offices
Office of the Dean
101 Rapson Hall
626-9068
Student Services
107 Rapson Hall
626-1000

Departments and Programs
Department of Architecture
145 Rapson Hall
624-7866
Department of Landscape Architecture
144 Rapson Hall
625-6860
Design Center for American Urban Landscape
1 Rapson Hall
627-1850
Design Institute
308 Northrop Auditorium
625-3373
Landscape Studies Center
1425 University Avenue SE
625-6800

CALA Web Site
www.cala.umn.edu
Architecture

B.S.

Architecture encompasses the making and study of the buildings and environment that we inhabit. The concerns of architecture involve a variety of areas of study, including the art of representing existing environments and proposals through drawings and models; the technology of building structure, building materials, and natural and mechanical systems; the history, theory, and art of making, using, and understanding buildings as cultural artifacts for human use; and the practice of architecture in the context of urban form and society.

The bachelor of science (B.S.) degree with a major in architecture provides instruction in history, representation, design, theory, and technology, emphasizing the development of architecture as a language of form, space, and order. The program requires an understanding of social, cultural, and physical contexts as a foundation for the examination of the methods, values, precedents, and material reality characteristic of the process of shaping natural and built environments. The major combines core prerequisites with a focused introduction to the discipline of architecture, including required courses in representation, history, theory, technology, and design processes.

The B.S. degree program offers an in-depth study of architecture in the context of a liberal education by requiring two years of design study, several courses in architecture technology, and upper division architecture electives (see the College of Liberal Arts section of this catalog for more information on the B.A. degree). The B.S. degree is used primarily as preparation for professional study in architecture or related fields at the graduate level, or for employment or study in architecture-related fields that do not require a professional degree such as urban design or planning, housing development, construction management, or real estate development. The B.S. degree program establishes a strong design foundation that serves a variety of careers and provides flexibility as individual opportunities change.

A professional degree in architecture is required to qualify for licensure as an architect in Minnesota. The University of Minnesota offers professional instruction only at the graduate level.

CALA students in studio classes must have a laptop computer. For the most current information about computer requirements in architecture, visit the CALA Web site at www.cala.umn.edu.

Admission Requirements—For the bachelor of science (B.S.) degree with a major in architecture, students enrolled at the University may apply to CALA the semester they complete all preparation courses. Admission is competitive. As pre-architecture majors pursuing the B.S. degree, students file an Application for Undergraduate Change of College form and designate CALA as the college to which transfer is requested.

Students transferring into the University must enter through CLA or one of the other transfer admitting colleges. Transfers with 30 credits who enter through CLA may declare a pre-architecture major immediately upon admission. Students are admitted to the architecture major based on space availability and academic record. A minimum GPA of 2.80 is recommended.

The application deadline is February 15. Students complete the following steps before an application deadline.

1. Complete all required architecture and general education courses listed under “Preparation for the Major” (may include current enrollment).
2. Meet with a College of Architecture and Landscape Architecture undergraduate adviser in the CALA Student Services office (612-626-1000).

Students interested in taking CALA courses but not earning a degree should enroll in CALA as a non-degree seeking student through the Office of Admissions.

Degree Requirements

To complete the degree, students must complete at least 120 credits. At least 47 credits must be in the major.

Students should maintain a portfolio of originals or duplicates of all freehand drawings, projects, and architecture studio designs. A portfolio is required for application to the accelerated program and the graduate professional degree program.

All prerequisite courses including courses in math, physics, and English composition must be taken A-F with grades of C- or better to satisfy degree requirements and to progress in sequence courses.
Required Courses

Preparation for the Major (33 cr)

Required General Education Courses (12-13 cr)
- EngC 1011—University Writing and Critical Reading (4 cr)
- Math 1142—Short Calculus (4 cr)
- or Math 1271—Calculus I (4 cr)
- Phys 1101—Fundamental Physics I (4 cr)
- or Phys 1201—General Physics I (5 cr)

Architecture Courses (21 cr)

Representation (6 cr)
- Arch 1301—Introduction to Drawing in Architecture and Landscape Architecture (3 cr)
- Arch 3301—Drawing for Design in Architecture (3 cr)

History and Theory (12 cr)
- Arch 1401—The Designed Environment (3 cr)
- Arch 3401W—Environmental Design and the Sociocultural Context (3 cr)
- Arch 3411—Architectural History to 1750 (3 cr)
- Arch 3412—Architectural History Since 1750 (3 cr)

Technology (3 cr)
- LA 3501—Environmental Design and Its Biological and Physical Context (3 cr)

Architecture Major Requirements (53 cr)

Design (22 cr)
- Arch 5281—Undergraduate Architecture Studio I (6 cr)
- Arch 5282—Undergraduate Architecture Studio II (6 cr)
- Arch 5283—Undergraduate Architecture Studio III (6 cr)
- Arch 5284—Undergraduate Architecture Studio IV (4 cr)

History (3 cr)
- Arch 54xx—History (3 cr)

Technology (10 cr)
- Arch 5501—Environmental and Material Forces in Architecture (4 cr)
- Arch 4511—Building Systems (3 cr)
- Arch 4571—Introduction to Structures (3 cr)

Additional upper division courses
- Select 9 to 12 credits of 3xxx-5xxx architecture electives
- Select 9 credits of 3xxx-5xxx electives outside the major

Accelerated Status in Architecture

This status is a competitive opportunity for qualified undergraduates to complete the B.S. degree with a major in architecture and the M.Arch. degree in six years rather than seven. Accelerated status applicants must complete all but 14 credits of upper division architecture courses before their senior year.

In this program students complete the first year of the graduate professional degree program in their senior year; courses carry upper division credit and complete the B.S. degree. Admission to accelerated status does not guarantee admission to the graduate professional program; separate requirements, such as the Graduate Record Examination (GRE) and other application documents, must be submitted in January of the year admission to the graduate program is sought. For more information about accelerated status, consult the Department of Architecture director of undergraduate studies or CALA Office of Student Services.

To be considered for accelerated status, students must be enrolled at the University as a B.S. or B.A. major in architecture, have completed one year of architecture design studio (Arch 5281, Arch 5282), have completed 90 credits, and have earned an overall GPA of 3.50. See an adviser in the CALA Office of Student Services for more information and to declare the minor.

Deadline for consideration is June 15.

Architecture Minor

An undergraduate minor in architecture introduces the foundational ideas of the discipline as a social, cultural, historic, and environmental construct. The minor requires a minimum of 18 credits and a minimum grade of C- in all courses; 9 of the 18 credits are in required courses. A maximum of 9 transfer credits may be used toward the minor. A maximum of three courses taken for a major may also be used toward the minor.

See an architecture adviser in the CALA Office of Student Services for more information and to declare the minor.

Arch 1401—The Designed Environment (3 cr)
- Arch 3401W—Environmental Design and the Sociocultural Context (3 cr)
- LA 3501—Environmental Design and Its Biological and Physical Context (3 cr)

The remaining nine credits are electives within an interest area and must be in upper division Arch courses (3xxx-5xxx).

Environmental Design

Department of Landscape Architecture

B.E.D.

Landscape architecture focuses on issues of land use and creating a future that provides a quality lifestyle in a quality environment for an ever-increasing human population. In dealing with these issues, landscape architects integrate the design, planning, and management of the landscape to create outdoor environments that sustain ecological function, fulfill human aspirations for community development, public health, and safety; and are artistically evocative and meaningful.

Projects pursued by landscape architects include large-scale regional landscape planning (e.g., national park planning and design) and preparation and review of environmental impact statements. Landscape architects design new communities and residential developments; urban redevelopment projects; campuses for educational, industrial and commercial facilities; as well as the restoration of historically, culturally and naturally significant areas. Finally, many landscape architects focus on recreation area design projects such as parks, playgrounds, golf courses, resorts, zoos, arboretums, amphitheaters, waterfront areas, marinas, and water features.

Professional services offered by landscape architects include assessing landscape design needs and desires as well as analyzing, planning and managing the landscape’s physical, biological, hydrological, cultural, and social opportunities and constraints for various types of human use. Landscape architects develop conceptual and schematic design proposals to create outdoor places that fulfill human needs in a sustainable, evocative, and meaningful manner. They prepare detailed engineering drawings for grading, construction, and planting to implement design proposals. Finally, landscape architects prepare contract bidding documents and provide construction inspection and management as well as post-occupancy evaluation services. A landscape architect’s professional services are often offered in collaboration with other professionals such as architects, planners, engineers, geographers, physical scientists, biologists, ecologists, social scientists, attorneys, and contractors.

The Department of Landscape Architecture offers three degrees: the preprofessional bachelor of environmental design in landscape architecture (B.E.D.); the professional master of landscape architecture (M.L.A.), required to become a registered landscape architect; and the master of science (M.S.), a research-oriented degree allowing a specialized focus within landscape architecture.

The three degree programs seek to integrate an artistic understanding of landscape design with an ecological understanding of natural and cultural systems. National leadership in research, active testing of design ideas at the local and national level, and the integration of these experiences into the classroom offer a powerful springboard for design innovation. Collaborative opportunities within the college and University allow students to explore and realize the potentials of landscape architecture and the need for ecological responsibility in design and planning.
The B.E.D. in landscape architecture provides a broad background in the biological, physical, and social sciences and the liberal arts as they apply to design. Courses introduce students to the history, theory, and practice of landscape architecture. Design experiences are supplemented by courses in representation, technology, history, and theory. The B.E.D. program may be used as preparation for professional study in landscape architecture or related fields at the graduate level, or for employment in the environmental design and planning fields that does not require an accredited professional degree.

CALA students in studio classes are required to have a laptop computer. For the most current information about computer requirements, visit the CALA Web site at www.cala.umn.edu.

Admission Requirements—Students enrolled at the University may declare an environmental design major at any point after they have completed all high school preparation requirements (see High School Course Preparation in the General Information section of this catalog) and 30 credits with a GPA of 2.50. Students declare the major by filing an Application for Change of Undergraduate College; students designate CALA as the college to which transfer is requested, with a major in environmental design.

Students transferring into the University may declare an environmental design major immediately upon admission if they have completed all high school preparation requirements and at least 30 semester credits with a GPA of 2.50.

Degree Requirements

Students must complete at least 120 credits, including at least 73 credits in the major.

Students must complete all program, college, and University requirements including the University of Minnesota, Twin Cities liberal education requirements. All LA-designated courses and all courses taken to fulfill a requirement of the major or one of its tracks must be taken A-F, with grades of C- or better.

Landscape Design and Landscape Planning Tracks—The bachelor of environmental design degree program contains the landscape design and the landscape planning tracks. The design track prepares students for a career in landscape design at the residential and small-scale commercial level. Graduates are employed as designers and sales persons by garden centers, landscape contractors, and landscape nurseries. The landscape design track is offered jointly by the Department of Landscape Architecture and the Department of Horticulture in the College of Agricultural, Food and Environmental Sciences. The landscape planning track prepares students for work in the field of urban and regional planning.

The two tracks share a common core of environmental design courses. The landscape design track also requires students to take courses in biological science, plant materials, landscape management, and small business management. The landscape planning track requires additional courses in urban geography, urban and regional planning, natural resource planning and management, as well as biological and physical sciences.

Accelerated Status Option—The department also offers an accelerated status option through the B.E.D. program. The accelerated status option admits a limited number of students annually and allows qualified undergraduates to complete the B.E.D. and M.L.A. in six years rather than seven years.

Applicants for the accelerated status must complete the first three years of the B.E.D. degree requirements before their senior year. Students must complete the first year of the professional degree program in their undergraduate senior year. These courses carry upper division credit and satisfy senior year B.E.D. requirements.

Accelerated status is granted on a competitive basis and does not admit any student to the graduate professional program. Separate requirements, such as letters of recommendation, a letter of interest, and other application documents, must be submitted in January of the year that students are seeking admission to the graduate program. B.E.D. graduates who have completed the accelerated status option and applied to the M.L.A. professional degree program will receive advanced standing in the M.L.A. program upon acceptance by the Department of Landscape Architecture and the Graduate School.

Required Courses

Environmental Design Core (43 cr)

LA 1201—Learning from the Landscape (3 cr)
LA 1301—Introduction to Drawing in Architecture and Landscape Architecture (3 cr)
LA 1401—The Designed Environment (3 cr)
LA 3001—Understanding and Creating Landscape Space (3 cr)
LA 3002—Informants of Creating Landscape Space (3 cr)
LA 3413—Introduction to Landscape Architectural History (3 cr)
LA 3501—Environmental Design and its Biological and Physical Context (3 cr)
LA 3204—Landscape Ecology (3 cr)
LA 3571—Landscape Construction: Site Systems and Engineering (3 cr)
Arch 3301—Drawing for Design (3 cr)
Arch 3401W—Environmental Design and the Sociocultural Context (3 cr)
Arch 3411—Architectural History to 1750
Arch 3412—Architectural History Since 1750 (3 cr)
Rhet 1223—Oral Presentation in Professional Settings
Comm 1101—Introduction to Public Speaking (3 cr)
Rhet 3562W—Technical and Professional Writing (4 cr)

Landscape Design Track (49 cr)

ApEc 1101—Microeconomics (3 cr)
Hort 1011—Herbaceous Landscape Plants (4 cr)
Hort 4021—Landscape Design and Implementation I (4 cr)
Hort 4096—Professional Experience Program: Internship (1-3 cr)
Hort 5021—Landscape Design, Implementation and Management II (4 cr)
Biol 1009—General Biology (4 cr)
Biol 3002—Plant Biology: Function (2 cr)
Chem 1011—General Principles of Chemistry (4 cr)
Hort 1001—Plant Propagation (4 cr)
Hort 3005—Environmental Effects on Horticultural Crops (2 cr)
Hort 4061—Turf and Landscape Management (3 cr)
Math 1031—College Algebra
Math 1142—Short Calculus (3-4 cr)
Soil 2125—Basic Soil Science (4 cr)

Select two courses (6-8 cr) from the following to fulfill requirement in small business management:
Acct 2050—Introduction to Financial Reporting (4 cr)
ApEc 1251—Principles of Accounting (3 cr)
GC 1513—Principles of Small Business Operations (3 cr)
OMS 2530—Business Statistics: Data Sources, Presentation, and Analysis (4 cr)
Landscape Planning Track (21 cr)
Arch 3711—Design Principles of the Urban Landscape (3 cr)
FR 3131—Geographical Information Systems (GIS) for Natural Resources (4 cr)
Geog 3371W—Cities, Citizens, and Communities (4 cr)
Geog 3605W—Geographical Perspectives on Planning (4 cr)
PA 4200—Urban and Regional Planning (3 cr)

Choose one of the following (5-4 cr)
Geog 3373W—Changing Form of the City (3 cr)
PA 5013—Law and Urban Land Use (2 cr)
PA 5251—Strategic Planning and Management (2 cr)
FR 4501—Urban Forest Management: Managing Greenspaces for People (3 cr)
Geog 3355—Environmental Quality (3 cr)
Geog 3361W—Land Use, Landscapes, and the Law (3 cr)
Geog 5393—The Rural Landscape (3 cr)
ENR 3245—Sustainable Recreation Planning and Policy (3 cr)
ENR 4101—Conservation of Plant Biodiversity (3 cr)
ENR 4395—Natural Resource Planning (3 cr)

Upper Division Physical and Biological Sciences (9-11 cr)
EEB 3001—Ecology and Society (3 cr)
Choose two of the following (6-8 cr):
AgET 4223—Hydrology and Water Quality (3 cr)
EEB 4014W—Ecology of Vegetation (3 cr)
EEB 4016W—Ecological Biogeography (3 cr)
EEB 4601—Limnology (3 cr)
EEB 4609W—Ecosystem Ecology (3 cr)
FR 3114—Forest Hydrology and Watershed Mgt. (3 cr)
FR 3104—Forest Ecology (4 cr)
FR 5153—Forest and Wetland Hydrology (3 cr)
Geog 5441—Quaternary Landscape Evolution (3 cr)
Geo 3003—Geohazards (3 cr)
Geo 4701—Geomorphology (4 cr)
Geo 4703—Glacial Geology (4 cr)
Geo 5108—Principles of Environmental Geology (3 cr)
Hort 5071—Restoration and Reclamation Ecology (3 cr)
ENR 3021—Plant Resource Management and the Environment (3 cr)
ENR 3061—Water Quality: Management of a Natural Resource
ENR 3575—Wetlands Conservation (3 cr)
PBio 4321—Taxonomy of Minnesota Flora (3 cr)
Soil 3221—Soil Conservation and Water Quality Impacts (3 cr)

Open Electives
At least 10-13 credits are required in open elective courses from any program, at any level.

Accelerated Status in Environmental Design

Applications for the accelerated status option in the B.E.D. program must be submitted by January 15 of the year of desired entry. Admission is for fall only. The following policies and admission procedures change periodically; students should check with their adviser and the Department of Landscape Architecture for current information.

- Apply to the University of Minnesota if not already a student.
- Complete the first three years of B.E.D. coursework in either the landscape design or the landscape planning tracks.
- Complete the accelerated status option application available from the Department of Landscape Architecture (612-625-6860).
- Submit official transcripts of all coursework at the college, university, or graduate level, including coursework currently being taken. A student must have a GPA of at least 3.00 for admittance.
- Submit a letter of intent describing the student’s interests, strengths, skills, and experiences related to landscape architecture; landscape architecture and the interests, strengths, and skills needed to practice it as understood by the applicant; and why there is a good fit between the applicant’s interests, strengths, skills, and experiences and landscape architecture (maximum of two pages).
- Submit a portfolio of art or design work, environmental or design reports, photographs of three-dimensional work, slides, or similar examples of creative work. The work should convey the applicant’s creative abilities and communication skills. It is strongly suggested that the portfolio be a bound 8 1/2 x 11-inch booklet. Portfolios larger than 24 x 36 inches will not be accepted. Loose materials are also unacceptable. Slides must be submitted in 8 1/2 x 11-inch transparent slide carrier pages.

The landscape architecture faculty votes on each applicant. The applicant may be admitted to the accelerated status option or continued in the B.E.D. program. It is assumed that students who are accepted will complete their B.E.D. program in the accelerated status option track and apply to the M.L.A. program. Admission is based on the

- student’s academic standing and GPA
- student’s understanding of landscape architecture
- fit between the student’s interests, strengths, skills, and experiences and landscape architecture
- student’s potential to succeed as a practicing landscape architect as estimated by the faculty
- resource and space availability

Applicants are encouraged to visit the landscape design studios, talk to students who are in the accelerated option track and the M.L.A. program, and find out as much as they can about the profession by talking with landscape architects in their community.

Applicants will be notified of the admission decision by May 15. Successful applicants must notify the department of their intention to enter by June 15 to reserve a position in the program.

During their senior year, students in the accelerated program enroll in the following courses:

First Semester (14 cr)
LA 5201—Making Landscape Spaces and Types (6 cr)
LA 5202—Lake Itasca Landscape Analysis (1 cr)
LA 5371—Computer Methods I (1 cr)
LA 5571—Landscape Construction: Landform Systems and Spatial Performance (3 cr)
LA 5574—Identification of Minnesota Flora (3 cr)

Second Semester (16 cr)
LA 5203—Ecological Dimensions of Space Making (6 cr)
LA 5204—Landscape Ecology (3 cr)
LA 5372—Computer Methods II (1 cr)
Electives (6 cr)

Environmental Design Minor

Students pursuing a minor must complete at least 21 credits. Two courses are required; the remainder are chosen from a list of optional courses. A maximum of 9 transfer credits may be used for the minor and a maximum of three courses taken for a major degree may also be used toward the minor.

A minimum grade of C- is required in all courses taken for the minor.

Required Courses (9 cr)
LA/Arch 1401—The Designed Environment (3 cr)
LA 3413—Introduction to Landscape Architectural History (3 cr)
LA 3001—Understanding and Creating Landscape Space (3 cr)

Optional Courses (12 cr)
Arch 3301—Drawing for Design in Architecture (3 cr)
Arch 3401W—Environmental Design and the Sociocultural Context (3 cr)
EEB 3001—Ecology and Society (3 cr)
LA 1101W—Introduction to Design Thinking (4 cr)
LA 1201—Learning From the Landscape (3 cr)
LA 1202—Making the Mississippi (3 cr)
LA/Arch 1301—Introduction to Drawing in Architecture and Landscape Architecture (3 cr)
Design Minor

Interdisciplinary

Minor Only

The interdisciplinary design minor is appropriate for students who would like a taste of design or those who want a renewed perspective on design. Traditional design courses and nontraditional views of design provide an integrated perspective on design. The minor consists of 18 credits and includes core courses that provide a basis for design thinking as well as electives to allow students to explore their area of interest in design. As an interdisciplinary minor, 9 credits are to be taken outside the student’s major.

Required Courses

DHA 1101W—Introduction to Design Thinking (4 cr)
DesI 4001—Design Minor Seminar (3 cr)

Choose two courses from:
Arch 3611—Design in the Digital Age (3 cr)
HumF 3505—Introduction to Human-Centered Design (3 cr)
Jour 4551—New Media Culture (3 cr)
ME 2011—Introduction to Engineering (4 cr)
Two additional approved electives (6-8 cr)*

For students majoring in architecture, design, housing and apparel, or landscape architecture:
DesI 4001—Design Minor Seminar (3 cr)

Choose two courses from:
Arch 3611—Design in the Digital Age (3 cr)
HumF 3505—Introduction to Human-Centered Design (3 cr)
Jour 4551—New Media Culture (3 cr)
ME 2011—Introduction to Engineering (4 cr)
Two additional approved electives (6-8 cr)*

*Approved elective course lists are available at the Design Institute, 308 Northrup Auditorium or on the Web at http://design.umn.edu.

For more information contact the design minor coordinator at 612-624-4461.