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Degree Programs and Minors
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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 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 Williamson 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.

Degrees/Majors

Undergraduate—CALA offers a nonprofessional bachelor of environmental design (B.E.D.) degree; a nonprofessional bachelor of science with a major in architecture (B.S.) degree; and, in cooperation with the College of Liberal Arts (CLA), a nonprofessional bachelor of arts (B.A.) degree with a major in architecture. 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 fully accredited 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 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, recognizes two types of degrees: the bachelor of architecture and the master of architecture. A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Masters degree programs may consist of a preprofessional 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 Student Services Office—The Office of Student Services in CALA serves students from their prospective visit to graduation. The office 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. It 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, please 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—Beginning fall 2002, 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 21 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 Student Services or department office. 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 advisor 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 he or she takes. At the time of the action, the student is informed by the instructor 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 college publications, printed or electronic, for research, publicity, and outreach, giving publication credit to the creator/student.

Special Learning Opportunities and Resources

Summer Honors College for High School Students — Each summer CALA offers architecture-related learning opportunities for talented high school students through the Summer Honors College. This program provides students with an interdisciplinary, hands-on approach to the building arts, as well as an opportunity to explore a broad range of other subjects while receiving college credit.

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 International Service and Travel Center, 94 Blegen Hall (612-626-4782); the Global Campus, 230 Heller Hall (612-626-9000); or the CALA Student Services office (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 the 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

Membership and participation in student organizations add a valuable dimension to a student’s academic career and contribute to professional development.

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.

Directory

(area code 612)

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

Departments and Programs
Department of Architecture
145 Architecture
624-7866
Department of Landscape Architecture
144 Architecture
625-6860
Design Center for American Urban Landscape
1 Architecture
627-1850
Design Institute
110 Architecture
625-3373
Landscape Studies Center
1425 University Avenue SE
Minneapolis
625-6860
CALA Web Site
<www.cala.umn.edu>
Architecture

Department of 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 built projects through drawings and computer graphics; 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 business economics.

The bachelor of science degree with a major in architecture (B.S.) provides instruction in history, representation, design, theory, and technology, emphasizing the development of architecture as a language of form, space, and order. The B.S. 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 practice 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 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.

Beginning fall 2002, CALA students in studio classes must have a laptop computer. For the most current information about computer requirements, 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 transfer to CALA the semester they complete 55-60 credits, including all preparation courses. As pre-architecture majors pursuing the B.S. degree, students file an Application for 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 2.50 is required and an overall GPA of 2.80 is recommended.

Application deadlines are November 1, March 1, and August 1. Students complete the following steps before an application deadline.

1. Complete all required architecture and general education courses listed under “Preparation for the Major” and liberal education requirements, (may include current enrollment).

2. Meet with a College of Architecture and Landscape Architecture undergraduate adviser in the Office of CALA Student Services (612-626-1000). Bring a copy of the completed Pre-Architecture Planning Sheet and a current unofficial transcript to the appointment.

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
Students must complete at least 120 credits: 60 credits of pre-architecture study followed by 60 credits of coursework after admission to the major. At least 47 credits must be in the major.

During their program, students should maintain a portfolio of originals or duplications 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 architecture-designated courses (Arch) and the required general education 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 to sequence courses.

Required Courses
Preparation for the Major (31 cr)

Required General Education Courses (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 (18 cr)
Representation (3 cr)
Arch 1301—Introduction to Drawing in Architecture and Landscape 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)

Architectural Major Requirements (47 cr)
Representation (3 cr)
Arch 3301—Drawing for Design in Architecture (3 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 (4 cr)
Arch 5501—Environmental and Material Forces in Architecture (4 cr)
Arch 5511—Building Systems
Arch 5513—Thermal Design in Architecture
Arch 5571—Architectural Structures

Additional upper division courses
Select 9 to 12 credits of 3xxx-5xxx architecture electives
Select 9 credits of 3xx-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 the 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 Student Services office for additional criteria. Deadline for consideration is March 15.

Architecture Minor
An architecture minor introduces the foundational ideas of the discipline as a social, cultural, historic, and environmental construct. It requires at least 18 credits and a minimum grade of C- in all courses.

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)

Nine credits are electives within an interest area and must be in upper division Arch courses (3xx-5xx). See an architecture adviser in the CALA Student Services office for more information and to declare the minor. A maximum of three courses taken for a major may also be used toward the minor.

Environmental Design

Department of Landscape Architecture
B.E.D.
Landscape architecture integrates the design, planning, and management of the landscape to create environments that combine ecological function and human aspirations for community, health and safety, and beauty.

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.

Projects include large-scale regional landscape planning; design of exterior environments for working, living, and recreation; commercial, institutional, and industrial development; transportation systems; and multiple-use areas. Professional services include studies of land-use allocation and management, detail grading, construction drawings, and planting plans. Landscape architects often collaborate on projects with other professionals such as architects, planners, engineers, geographers, physical scientists, biologists, ecologists, and social scientists.

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.

Beginning fall 2002, 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 2.00. Students declare the major by filing an Application for Change of 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 51 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 must be taken A-F, with grades of C- or better.

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
I. Foundation Courses

Landscape Architecture
LA 1101—Introduction to Design Thinking (4 cr)
LA 1301—Introduction to Drawing in Architecture and Landscape Architecture (3 cr)
LA 1401—The Designed Environment (3 cr)

General Education
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
or EngC 1012—University Writing and Critical Writing, Emphasis on Cultural Diversity (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
or Comm 1101—Introduction to Public Speaking (3 cr)
The following courses are recommended (not required) to fulfill University liberal education requirements for at least 8 credits of physical and biological sciences.
Biol 1001—Introductory Biology I: Evolutionary and Biological Perspectives (4 cr)
Biol 1009—General Biology (4 cr)
Geo 1001—The Dynamic Earth: An Introduction to Geology (4 cr)
Geo 1004—Physical and Historical Geology of Minnesota (4 cr)
Geog 1403—Biogeography of the Global Garden (4 cr)
Soil 1125—The Soil Resource (4 cr)
The following courses are recommended (not required) to fulfill University liberal education requirements for at least 15 credits of social sciences and humanities.
Geog 1301—Introduction to Human Geography (4 cr)
Geog 3371—Introduction to Urban Geography (3 cr)
Geog 3373—The Changing Form of the City (3 cr)

II. Advanced Courses

Landscape Architecture
Arch 3301—Drawing for Design in Architecture (3 cr)
Arch 3401—Environmental Design and the Sociocultural Context (3 cr)
EEB 3001—Ecology and Society (3 cr)
FR 3131—Geographical Information Systems for Natural Resource Analysis (3 cr)
LA 3001—Introduction to Landscape Architectural Design (3 cr)
LA 3411—Architectural History to 1750 (3 cr)
or LA 3412—Architectural History Since 1750 (3 cr)
LA 3501—Environmental Design and its Biological and Physical Context (3 cr)
LA 5204—Landscape Ecology (3 cr)
LA 3413—Introduction to Landscape Architectural History (3 cr)
LA 5571—Landscape Construction: Landform Systems and Spatial Performance (3 cr)

The following courses are recommended (not required) to fulfill the two-course 3xxx-5xxx (6-8 cr) requirement in landscape planning and design.
Arch 5452—Architecture: Design, Form, Order, and Meaning (3 cr)
Arch 5711—Design Principles of the Urban Landscape (3 cr)
Arch 5724—Meanings of Place (3 cr)
FR 4501—Urban Forest Management (3 cr)
Geog 3355W—Environmental Quality (3 cr)
Geog 3361W—Land Use, Landscapes, and the Law (3 cr)
Geog 3371W—Introduction to Urban Geography (3 cr)
Geog 3373W—Changing Form of the City (3 cr)
Geog 3605V/W—Geographical Perspectives on Planning (4 cr)
Geog 5372W—American Cities II: Land Use, Transportation, and the Urban Economy (4 cr)
Geog 5393W—The Rural Landscape (3 cr)
Hort 4021—Landscape Design, Implementation, and Management I (4 cr)
Hort 5021—Landscape Design, Implementation, and Management II (4 cr)
NRES 3245—Recreation Policy and Landscape-level Planning (3 cr)
NRES 3101—Conservation of Plant Biodiversity (3 cr)
NRES 4395—Natural Resource Planning (3 cr)
PA 4200—Introduction to Urban and Regional Planning (3 cr)

General Education
Rhet 3562W—Technical and Professional Writing (4 cr)
The following courses are recommended (not required) to fulfill the two 3xxx-5xxx course requirement at (6-8 cr) in the physical and biological sciences.
AgET 4223—Hydrology and Water Quality (3 cr)
EEB 4002—Ecology of Minnesota (2 cr)
EEB 4014—Ecology of Vegetation (3 cr)
EEB 4016—Ecological Biogeography (3 cr)
EEB 4601—Linnmonography (3 cr)
EEB 4609—Ecosystem Ecology (3 cr)
FR 4114—Forest Hydrology and Watershed Management (3 cr)
FR 5104—Forest Ecology (4 cr)
FR 5153—Forest and Wetland Hydrology (3 cr)
Geo 4701—Geomorphology (4 cr)
Geo 4703—Glacial Geology (4 cr)
Geo 5108—Principles of Environmental Geology (3 cr)
Geog 5441—Quaternary Landscape Evolution (3 cr)
Hort 5071—Restoration and Reclamation Ecology (3 cr)
NRES 3061W—Water Quality: Management of a Natural Resource (3 cr)
NRES 3575—Wetlands Conservation (3 cr)
PBio 4321—Taxonomy of Minnesota Flora (3 cr)

III. Open Electives

At least 33 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 the B.E.D. coursework.

CALA's mentor program matches students with professionals in their field of study.
• 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. Typically, 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 5133—Lake Itasca Landscape Analysis (1 cr)
LA 5371—Computer Methods I (1 cr)
LA 5571—Landscape Construction: Landform Systems and Spatial Performance (3 cr)
Elective course (3 cr)

Second Semester (13 cr)
LA 5203—Ecological Dimensions of Space Making (6 cr)
LA 5204—Landscape Ecology (3 cr)
LA 5372—Computer Methods II (1 cr)
Elective (3 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 (6 cr)
LA 1401—The Designed Environment (3 cr)
LA 3413—Introduction to Landscape Architectural History (3 cr)

Optional Courses (15 cr)
Arch 3301—Drawing for Design in Architecture (3 cr)
Arch 3401W—Environmental Design and the Sociocultural Context (3 cr)
Hort 1012—Woody Landscape Plants (3 cr)
LA 1101W—Introduction to Design Thinking (4 cr)
LA 1301—Introduction to Drawing in Architecture and Landscape Architecture (3 cr)
LA 3001—Introduction to Landscape Architectural Design (3 cr)
LA 3501—Environmental Design and its Biological and Physical Context (3 cr)
LA 3204—Landscape Ecology (3 cr)
LA 5571—Landscape Construction: Landform Systems and Spatial Performance (3 cr)
LA 5573—Landscape Technology: Introduction to Geographic Information Systems (3 cr)
LA 8302—Professional Practice (3 cr)

Design Minor

Interdisciplinary

Minor Only

The design minor is open to students who are not majoring in a design field. To complete the minor, students must have approval of both their major program adviser and the design minor adviser. Students must complete at least 14 credits. To ensure an interdisciplinary perspective, students must earn at least six of their design minor credits outside their home department, and may count only one course for both their major and the design minor.

For more information contact the design minor adviser in the Office of CALA Student Services at 612-626-1000.

Required Courses
DHA/LA 1101W—Introduction to Design Thinking (4 cr)
DHA 4001—Design Minor Seminar (1 cr)
Arch 3611—Design in the Digital Age (3 cr)
or Kin 3501—Human Centered Design (3 cr)
Two additional supporting courses
One studio, lab or other design experience course from list of approved courses*
One additional upper division course from list of approved courses*

*Approved course lists are available in the Office of CALA Student Services, 107 Architecture, or on the Web at http://design.umn.edu.