

SUSTAINABLE DESIGN, BS

for the Bachelor of Science in Sustainable Design

The major in Sustainable Design offers an innovative, interdisciplinary course of study in design, with a focus on building sustainable communities through the intentional design of environmentally sensitive products, buildings, neighborhoods, landscapes and cities.

The program grounds concrete skills development with opportunities to move between disciplinary barriers, allowing students to prepare for the future in a sustainable world where ideas from many disciplines will be necessary to solve the complex problems of pollution reduction, energy conservation, and biodiversity protection in equitable, healthy, and thriving places.

Required introductory coursework provide a solid grounding in design thinking and skills, coupled with a broad understanding of the role of design in achieving sustainable results across scales. Students will apply their skills and knowledge in a required senior capstone project.

With expertise across disciplines, students in this program will be prepared to work in the public and private sector, or continue preparation in a variety of professional graduate programs such as Architecture, Industrial Design, Innovation Design, Landscape Architecture, Urban Design and Urban Planning.

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Graduation Requirements

Minimum hours required for graduation: 120 hours.

University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300- or 400-level. These hours can be drawn from all elements of the degree.

Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (<https://studentcode.illinois.edu/article3/part8/3-801/>) (§ 3-801) and in the Academic Catalog (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

General Education Requirements

Follows the campus General Education (Gen Ed) requirements (<https://courses.illinois.edu/gened/DEFAULT/DEFAULT/>). Some Gen Ed requirements may be met by courses required and/or electives in the program.

Code	Title	Hours
	Composition I	4-6
	Advanced Composition	3
	Humanities & the Arts (6 hours)	6
	fulfilled by ARTH 211 and FAA 201	
	Natural Sciences & Technology (6 hours)	6
	Social & Behavioral Sciences (6 hours)	6
	Cultural Studies: Non-Western Cultures (1 course)	3
	Cultural Studies: US Minority Cultures (1 course)	3

fulfilled by FAA 201

Cultural Studies: Western/Comparative Cultures (1 course)	3
Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)	6-10
Language Requirement (Completion of the third semester or equivalent of a language other than English is required)	0-15

Sustainable Design Requirements

Code	Title	Hours
Foundation		18
FAA 101	Arts at Illinois	1
FAA 230	Sustainable Design of the Built Environment	3
LA 101	Introduction to Landscape Arch	2
ARCH 171	Introduction to Design I	3
ARCH 172	Introduction to Design II	3
FAA 201	Black Arts Today	3
ARTH 211	Design History Survey	3
Urban Scale Sustainability (select one course)		3
UP 136	Urban Sustainability	3
UP 205	Ecology & Environmental Sustainability	3
ARCH 237	Urban Scale Sustainability	3
Drawing (select one course)		3
ARTD 225	Design Drawing	3
ARTF 102	Observational Drawing	3
ARTF 103	Design I	3
LA 280	Design Communications I (limited seats solely for BSSD/MLA 4+2 students)	3
Core		15
FAA 330	Making Sustainable Design	5
ARTD 326	Sustainability & Manufacturing	3
ARCH 321	Environment, Architecture, and Global Health	3
ARTD 451	Ethics of a Designer in a Global Economy	4
Senior Capstone		8
FAA 430	Capstone Seminar	3
FAA 431	Capstone Studio	5
Total Hours		47

Sustainable Design Major Electives

Code	Title	Hours
Select 16 credit hours, with at least 10 hours at the 300 or 400-level, and with approval of advisor.		
ARTD 230	Design Thinking/Need-Finding	3
ARTD 270	Design Methods	2
ART 205	Experience & Meaning in Design	3
ART 208	Digital Art and Sustainability	3
ART 310	Design Thinking	3
ARTJ 398	Designing Everyday Life in Modern Japan	3
ARTD 426	Product Innovation	3
ARTS 321	Sustainable Fashion Development and Branding	3
UP 203	Cities: Planning & Urban Life	3

UP 204	Chicago: Planning & Urban Life	3
UP 205	Ecology & Environmental Sustainability (may not double count as a major requirement)	3
UP 246	International Environmental Planning and Governance	3
UP 340	Planning for Healthy Cities	3
UP 405	Watershed Ecology and Planning	4
UP 406	Urban Ecology	4
UP 418	GIS for Planners	4
UP 420	Plng for Historic Preservation	4
UP 430	Urban Transportation Planning	4
UP 434	Pedestrian and Bicycle Planning	3
UP 437	Public Transportation Planning	3
UP 456	Sustainable Planning Workshop	4
UP 479	Community Engagement in Planning	3
UP 486	Planning with Climate Change	4
UP 494	Special Topics in Planning	1-4
ARCH 210	Introduction to the History of World Architecture	3
ARCH 231	Anatomy of Buildings	4
ARCH 237	Urban Scale Sustainability (may not double count as a major requirement)	3
ARCH 273	Fundamentals of Design I	3
ARCH 416	The Architecture of the United States, c.1650 to Present	3
ARCH 417	Modern and Contemporary Global Architecture	3
LA 222	Islamic Gardens & Architecture	3
LA 314	History of World Landscapes	4
LA 370	Environmental Sustainability	3
LA 446	Sustainable Planning Seminar	4
LA 466	Energy & the Built Environment	4
LA 480	Sustainable Design Principles	2
FAA 491	Special Problems in Sustainable Design	1 to 4
Other courses approved by advisor		
Total Hours (minimum)		16

Summary of Credits for Bachelor of Science in Sustainable Design

Code	Title	Hours
General Education requirements		
Sustainable Design Major		47
Major Electives		16
Free Electives		
A minimum of 40 credits at the 300 or 400 course level are required		
Total Hours		120

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This sample sequence is intended to be used only as a guide for degree completion. All students should work individually with their academic advisors to decide the actual course selection and sequence that works best for them based on their academic preparation and goals. Enrichment

programming such as study abroad, minors, internships, and so on may impact the structure of this four-year plan. Course availability is not guaranteed during the semester indicated in the sample sequence.

Students must fulfill their Language Other Than English requirement by successfully completing a third level of a language other than English. This may require up to three semesters of language depending on high school coursework or placement. See the corresponding section on the Degree and General Education Requirements page (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

First Year

First Semester	Hours	Second Semester	Hours
FAA 101		1 UP 136	3
ARCH 171		3 ARCH 172	3
LA 101		2 General Education course	3
Composition I or Language Other than English (3rd level)		4 Composition I or Language Other than English (3rd level)	4
FAA 201		3 Free Elective course	1
General Education course		3	
		16	14

Second Year

First Semester	Hours	Second Semester	Hours
FAA 230		3 FAA 330	5
ARTD 225 or LA 280		3 SD Major Elective	3
General Education course		3 General Education course	3
General Education course		3 General Education course	3
Free Elective course		3 Free Elective course	1
		15	15

Third Year

First Semester	Hours	Second Semester	Hours
ARCH 321		3 ARTD 326	3
SD Major Elective		3 ARTH 211	3
SD Major Elective		3 SD Major Elective	4
General Education course		3 General Education course	3
Free Elective course		3 Free Elective course	2
		15	15

Fourth Year

First Semester	Hours	Second Semester	Hours
FAA 430		3 FAA 431	5
ARTD 451		4 General Education course	3
SD Major Elective		3 Free Elective course	7

Free Elective course	5	
	15	15

Total Hours 120

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Upon successful completion of a degree in Sustainable Design, students will:

1. Have a deep level of understanding of the fundamentals of sustainability and their functional links to the built environment.
2. Have a deep level of understanding of the fundamentals of design thinking and practice.
3. Be proficient in applying basic principles of visual and material communication, including sketching, drafting, model-making, 2-d and 3-d design software and geographic information systems.
4. Be able to combine design theory and practice with sustainability principles to address environmental issues at the product, building, neighborhood, city, landscape and global levels.
5. Be comfortable working in multidisciplinary teams to solve complex design problems.

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Sustainable Design

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Sustainable Design website (<https://faa.illinois.edu/bachelor-science-sustainable-design/>)

Sustainable Design email (sustaindesign@illinois.edu)

College of Fine and Applied Arts website