B.S. Sustainable Design Virtual Information Session

with
Nicole Turner, Assistant Dean for Academic Programs and International Education
Karin Hodgin Jones, Faculty & Program Coordinator for Sustainable Design
Intro to Sustainable Design major
Professor Aneesha Dharwadker

Watch the video at
https://mediaspace.illinois.edu/media/1_7e5ai3rx
What is Sustainable Design?
What is Sustainable Design?

**Design**

- to create, develop, build, make products, buildings, cities, & landscapes

Photo Credit: Kevin Hinders
What is Sustainable Design?

Concern for Sustainability

• climate change, biodiversity loss, pollution, waste, environmental justice
What is Sustainable Design?

**Problem Solving**

• use creativity, knowledge and skills to address critical environmental issues
An innovative, interdisciplinary design program, with a focus on building a sustainable world through the intentional design of environmentally sustainable products, buildings, cities and landscapes.

Are you interested in:

- Addressing critical issues of climate change, biodiversity loss, pollution, waste, environmental justice?
- Understanding how intentional design and innovation can help solve complex environmental problems?
- Helping society develop more environmentally sustainable products, buildings, neighborhoods, cities and landscapes?
What ignited your interest in Sustainable Design?
Gabe Tavas
Alumnus, Sustainable Design

Watch the video at
https://mediaspace.illinois.edu/media/1_b4s5ahhp
Finding the Sustainable Design major
Julie Kim
Senior

Watch the video at
https://mediaspace.illinois.edu/media/1_9rvf9rk8
Faculty

Karin Hodgin Jones  
Program Coordinator  
Sustainable Design

Aneesha Dharwadker  
Asst. Professor,  
Architecture & Landscape Architecture

Eric Benson  
Assoc. Professor, Art & Design  
Past Chair of Graphic Design

Conor O’Shea  
Asst. Professor  
Landscape Architecture

Fang Fang  
Lecturer  
Urban & Regional Planning

Nicole Turner  
Assistant Dean  
Program Advisor
Graduates of this program will:

• Have a deep level of understanding of the fundamentals of sustainability and their functional links to the built environment.

• Have a strong understanding of design thinking and practice.

• Be skilled 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.

• Be able to combine design theory and practice with sustainability principles to address environmental issues.

• Be savvy at working in multidisciplinary teams to solve complex design problems.

• Well prepared for working in sustainability or pursuing more specialized graduate study
Skillsets Gained in Sustainable Design major
Ally Merrett
Alumnus

Watch the video at
https://mediaspace.illinois.edu/media/1_riuw6m0i
BSSD Degree Requirements

- General Education: 28%
- Free Electives/Minor: 21%
- Major Electives: 13%
- Major Requirements: 38%
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Composition I</strong></td>
<td>4</td>
</tr>
<tr>
<td>Advanced Composition (fulfilled by courses listed below)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities &amp; the Arts (fulfilled by required courses listed below)</td>
<td>6</td>
</tr>
<tr>
<td>Cultural Studies: Western/Comparative Culture(s) (fulfilled by course listed below)</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Studies: Non-Western Culture(s)</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Studies: US Minority Culture(s) (fulfilled by required course listed below)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences and Technology (fulfilled by courses listed below)</td>
<td>6</td>
</tr>
<tr>
<td>Social and Behavioral Sciences (1 is fulfilled by required course listed below)</td>
<td>6</td>
</tr>
<tr>
<td>Quantitative Reasoning I and II</td>
<td>6</td>
</tr>
<tr>
<td><strong>Language Other Than English requirements</strong></td>
<td>0-12</td>
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<tr>
<td><strong>Total Hours (with Language requirement fulfilled)</strong></td>
<td>28</td>
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## Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAA 101</td>
<td>Arts at Illinois</td>
<td>1</td>
</tr>
<tr>
<td>FAA 201</td>
<td>Black Arts Today (Gen Ed: Humanities &amp; the Arts &amp; U.S. Minority Cultures)</td>
<td>3</td>
</tr>
<tr>
<td>LA 191</td>
<td>Introduction to Landscape Arch</td>
<td>2</td>
</tr>
<tr>
<td>UP 136</td>
<td>Urban Sustainability (Gen Ed: Social &amp; Behav Sci, Social Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 225</td>
<td>Design Drawing</td>
<td>3</td>
</tr>
<tr>
<td>or LA 280</td>
<td>Design Communications I</td>
<td></td>
</tr>
<tr>
<td>ARCH 171</td>
<td>Concepts and Theories of Architectural Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 172</td>
<td>Drawing and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>FAA 230</td>
<td>Sustainable Design of the Built Environment</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 211</td>
<td>Design History Survey (Gen Ed: Humanities &amp; the Arts)</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 326</td>
<td>Sustainability &amp; Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 321</td>
<td>Environment, Architecture, and Global Health</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 451</td>
<td>Ethics of a Designer in a Global Economy</td>
<td>4</td>
</tr>
<tr>
<td>FAA 330</td>
<td>Making Sustainable Design</td>
<td>5</td>
</tr>
<tr>
<td>FAA 430</td>
<td>Capstone Seminar</td>
<td>3</td>
</tr>
<tr>
<td>FAA 431</td>
<td>Capstone Studio</td>
<td>5</td>
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**Total Hours**: 47
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 230</td>
<td>Design Thinking/Need-Finding</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 270</td>
<td>Design Methods</td>
<td>2</td>
</tr>
<tr>
<td>ART 205</td>
<td>Experience &amp; Meaning in Design (Gen Ed: Social &amp; Beh Sci - Beh Sci + Cultural Studies: Western)</td>
<td>3</td>
</tr>
<tr>
<td>ART 208</td>
<td>Digital Art and Sustainability (Gen Ed: Humanities &amp; the Arts- LA)</td>
<td>3</td>
</tr>
<tr>
<td>ART 310</td>
<td>Design Thinking (Gen Ed: Humanities &amp; the Arts- LA)</td>
<td>3</td>
</tr>
<tr>
<td>ARTJ 398</td>
<td>Designing Everyday Life in Modern Japan</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 426</td>
<td>Product Innovation</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 321</td>
<td>Sustainable Fashion Development and Branding</td>
<td>3</td>
</tr>
<tr>
<td>UP 203</td>
<td>Cities: Planning &amp; Urban Life</td>
<td>3</td>
</tr>
<tr>
<td>UP 204</td>
<td>Chicago: Planning &amp; Urban Life</td>
<td>3</td>
</tr>
<tr>
<td>UP 205</td>
<td>Ecology &amp; Environmental Sustainability (Gen Ed: Natural Sci &amp; Tech)</td>
<td>3</td>
</tr>
<tr>
<td>UP 246</td>
<td>International Environmental Planning and Governance</td>
<td>3</td>
</tr>
<tr>
<td>UP 340</td>
<td>Planning for Healthy Cities</td>
<td>3</td>
</tr>
<tr>
<td>UP 405</td>
<td>Watershed Ecology and Planning</td>
<td>4</td>
</tr>
<tr>
<td>UP 406</td>
<td>Urban Ecology</td>
<td>4</td>
</tr>
<tr>
<td>UP 418</td>
<td>GIS for Planners</td>
<td>4</td>
</tr>
<tr>
<td>UP 420</td>
<td>Ping for Historic Preservation</td>
<td>4</td>
</tr>
<tr>
<td>UP 430</td>
<td>Urban Transportation Planning</td>
<td>4</td>
</tr>
<tr>
<td>UP 434</td>
<td>Pedestrian and Bicycle Planning</td>
<td>3</td>
</tr>
<tr>
<td>UP 437</td>
<td>Public Transportation Planning</td>
<td>3</td>
</tr>
<tr>
<td>UP 456</td>
<td>Sustainable Planning Workshop</td>
<td>4</td>
</tr>
<tr>
<td>UP 479</td>
<td>Community Engagement in Planning</td>
<td>3</td>
</tr>
<tr>
<td>UP 486</td>
<td>Planning with Climate Change</td>
<td>4</td>
</tr>
<tr>
<td>UP 494</td>
<td>Special Topics in Planning (section SK Food Systems Planning or PC Planning Colloquium)</td>
<td>1.5</td>
</tr>
<tr>
<td>ARCH 210</td>
<td>Introduction to the History of World Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 231</td>
<td>Anatomy of Buildings</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 273</td>
<td>Strategies of Architectural Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 416</td>
<td>The Architecture of the United States, c.1650 to Present</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 417</td>
<td>Modern and Contemporary Global Architecture</td>
<td>3</td>
</tr>
<tr>
<td>LA 222</td>
<td>Islamic Gardens &amp; Architecture (Gen Ed: Humanities &amp; the Arts-HP + Cultural Studies: Non-West)</td>
<td>3</td>
</tr>
<tr>
<td>LA 314</td>
<td>History of World Landscapes (Gen Ed: Advanced Composition + Humanities &amp; the Arts-HP + Cultural Studies- West)</td>
<td>4</td>
</tr>
<tr>
<td>LA 370</td>
<td>Environmental Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>LA 446</td>
<td>Sustainable Planning Seminar</td>
<td>4</td>
</tr>
<tr>
<td>LA 466</td>
<td>Energy &amp; the Built Environment</td>
<td>4</td>
</tr>
<tr>
<td>LA 480</td>
<td>Sustainable Design Principles</td>
<td>2</td>
</tr>
</tbody>
</table>

Other courses approved by advisor

Total Hours (minimum) 16
**Free Electives**

Select approximately 26 credit hours with approval of advisor to complete degree requirements.

**Summary of Credits for Bachelor of Science in Sustainable Design**

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education requirements</td>
<td>28</td>
</tr>
<tr>
<td>Language Requirements</td>
<td>0 - 12</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>47</td>
</tr>
<tr>
<td>Major Electives</td>
<td>16</td>
</tr>
<tr>
<td>Free Electives</td>
<td>29</td>
</tr>
<tr>
<td><strong>A minimum of 40 credits at the 300 or 400 course level are required</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours for Bachelor of Science in Sustainable Design</strong></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

# Sample Schedule

More sample schedules are online at [https://faa.illinois.edu/units/sustainable-design/program/](https://faa.illinois.edu/units/sustainable-design/program/)

## Fall of First Year
- FAA 101 Arts at Illinois 1
- LA 101 Intro to Landscape Architecture 2
- ARCH 171 Concepts & Theories of Architectural Design 3
- Gen Ed 4
- Gen Ed 3
- Gen Ed 3

**Total credit hours:** 16

## Spring of First Year
- UP 136 Urban Sustainability 3
- ARCH 172 Drawing & Modeling 3
- Gen Ed 3
- Gen Ed 3
- Free Elective 3

**Total credit hours:** 15

## Fall of Sophomore Year
- FAA 230: Sustainable Design of the Built Environment 3
- ARTD 225 Design Drawing or LA 280 Design Comm I 3
- FAA 201 Black Arts Today 3
- Gen Ed 3
- Gen Ed 3

**Total credit hours:** 15

## Spring of Sophomore Year
- FAA 330: Making Sustainable Design-Studio 5
- ARTH 211 Design History Survey 3
- SD Major Elective 3
- Gen Ed 3

**Total credit hours:** 14

## Fall of Junior Year (or Abroad?)
- ARTD 451 EDGE 4
- ARCH 321 Environment, Arch, & Global Health 3
- SD Major Elective 3
- Gen Ed 3
- Free Elective 1

**Total credit hours:** 14

## Spring of Junior Year (or Abroad?)
- ARTD 326 Sustainability & Manufacturing 3
- SD Major Elective 3
- Free Elective 3
- Free Elective 3
- Free Elective 3

**Total credit hours:** 14

## Fall of Senior Year
- FAA 430: Capstone Seminar 3
- SD Major Elective 4
- Free Elective 3
- Free Elective 3
- Free Elective 3

**Total credit hours:** 16

## Spring of Senior Year
- FAA 431: Senior Capstone Workshop 5
- SD Major Elective 3
- Free Elective 3
- Free Elective 4

**Total credit hours:** 15
First-Year/Freshman & Off-Campus Transfer Admissions

Students should follow the steps for applying to FAA and complete the online application for Illinois Undergraduate Admissions.

- There is no portfolio requirement or portfolio option for entry into Sustainable Design
- Declare Sustainable Design in the College of Fine & Applied Arts when applying

For additional information, contact:

Office of Undergraduate Admissions
University of Illinois at Urbana-Champaign
901 W. Illinois St. Urbana, IL 61801
Phone: 217.333.0302
admissions@illinois.edu
First-Year/Freshman Applicants:
Discover FAA High School Design Competition

Earn a scholarship!

https://faa.illinois.edu/student-resources/future-students/high-school-competition/
Incoming Off-Campus Transfer students should review the Transfer Handbook when preparing to transfer.
Sustainable Design

A cumulative GPA of 2.50 (A=4.00) for transferable courses is required for admission. A GPA of 2.75 is recommended to be competitive for admission.

PLEASE NOTE: Course pattern requirements for admission in bold, red italics should be completed by the desired term of entry. In rare instances, a student may be admitted before the course pattern is complete. The student will still be obligated to finish the pattern at the University of Illinois prior to degree certification.

Sophomore- and Junior-level transfer admission requires completion of equivalent transfer coursework to the following University of Illinois courses and requirements:

- RHET 105, Writing and Research
- Language Requirement
- Quantitative Reasoning I

Completion of equivalent transfer coursework which satisfies the following University of Illinois General Education* categories prior to transfer is highly recommended:

- Cultural Studies: Western/Comparative Culture(s)
- Cultural Studies: US Minority Cultures
- Cultural Studies: Non-Western Culture(s)
- Natural Sciences & Technology
- Quantitative Reasoning II
- Social & Behavioral Sciences

Prior completion of equivalent transfer coursework for any of the courses listed below is highly recommended:

- ARCH 171, Concepts and Theories of Architectural Design
- ARCH 210, Introduction to the History of World Architecture
- ARCH 231, Anatomy of Buildings
- LA 101, Introduction to Landscape Arch
- ARTH 211, Design History Survey
- College-level drawing, drafting, or illustration course

*At most institutions, the equivalent requires a two-course English composition sequence.

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CONTACT INFORMATION: Recruitment and Admissions, College of Fine & Applied Arts, University of Illinois, 116 Architecture Building, 608 E. Lorado Taft, Champaign, IL 61820; Phone: (217) 300-4235 / E-mail: ffa-admissions@illinois.edu
Intercollege Transfer Requirements

• Sophomore-level transfer: 2.0 GPA minimum (Illinois and cumulative)
• Junior transfer: 2.25 GPA minimum (Illinois and cumulative)
• Brief application with personal statement (500 words total)
  Why do you think sustainability issues are important?
  Describe a personal experience that highlights why society needs to include design in its efforts toward sustainability
• Demonstrated initial progress toward campus general education requirements
• No portfolio requirement
• Rolling admissions until the 4th day of class for each semester

Apply at go.Illinois.edu/ApplyICTtoSustainDesign
The microurban twin cities of Champaign and Urbana combine to form a vibrant, innovative community in which our campus is the heart. Offering the many perks of big-city living in a relaxed setting, we earn regular honors as a top college town.
Resources & Support for Sustainable Design majors

Asst. Dean Nicole Turner

Watch the video at
https://mediaspace.illinois.edu/media/1_02u17te9
Join a Registered Student Organization (RSO) related to Sustainable Design at Illinois

*Alpha Rho Chi*
*Hispanic Organization of Urban Studies and the Environment (HOUSE)*
*Illinois Solar Decathlon*
*Student Sustainability Committee*
*Design Innovation Illinois*
*Students for Environmental Concerns*
*Business In Environmental Responsibility*
*Student Champaign-Urbana Design*
*ActGreen*
*Alternative Seasonal Breaks*

*Growth International Volunteer Excursions*
*Brands Give Back*
*Design for America at UIUC*
*The Green Observer Magazine*
*Artistic Design and Creating Club*
*Green Greeks*
*Enactus*
*Makers at UIUC*
*Student Planning Organization*
*The Recyclops Club*
Our campus hosts centers, competitions, groups, and registered student organizations that can extend your network of designers and creative thinkers.

**Siebel Center for Design**
We believe in using Design Thinking as an approach to promote Human-Centered Design (HCD) and mandated quick iterations. We also aim to foster multidisciplinary collaborations across campus.

**Smart Energy Design Resource Center**
SEDAC's mission is to reduce the energy footprint of the State of Illinois and beyond. SEDAC provides effective energy efficiency strategies for buildings and communities through a variety of services.

**CU Community Fab Lab**
An open, collaborative, capacity-building maker space with an inventory of digital fabrication tools for unlimited possibilities.

**Fresh Press Paper**
We explore and enact the potential of regional sustainable agricultural fiber waste as paper and paper products. We make our handmade artisanal paper using seasonal agricultural fibers in Champaign, Illinois. We aim to change the paper supply chain from forest to farm.

**Institute for Sustainability, Energy, and Environment**
The institute is purposed to find solutions for the ever-growing demand for food, water, and energy while ensuring a safe, productive, and sustainable environment for all global citizens. Our three-pronged approach—research, campus sustainability, and education and outreach—was created to do just that.

**Sustainable Student Farm**
The farm is a hands-on learning environment for low-input, environmental and economically sustainable food production and features solar panels to supply energy to much of the farm, as well as an electric tractor. Internships and volunteer opportunities will expand your horticultural skills, developing applied skills in design.

**Illinois Sustainable Technology Center**
Our mission is to encourage and assist citizens, businesses, and government agencies to prevent pollution, conserve natural resources, and reduce waste to protect human health and the environment of Illinois and beyond.

**Student Competitions:**
Wege Prize / Big Ten Student Design Challenge / The Biodesign Challenge / Reimagine our Sustainable Future Challenge / EPA Campus Rainworks Challenge
Internship with Siebel Center for Design
Ally Merrett

Watch the video at
https://mediaspace.illinois.edu/media/1_ir99tedl
Post-Graduate Opportunities
with a major
in Sustainable Design

Professor Aneesha Dharwadker

Watch the video at
https://mediaspace.illinois.edu/media/1_9ocg6lod
Career Opportunities

- As cities, industries and businesses implement green strategy, there is an increasing need for professionals trained in sustainability.

- Job openings for ‘Sustainability Specialists’ and other ‘Green Economy’ occupations are expected to grow rapidly in the next several years with large numbers of job openings*

- A [2014 survey by McKinsey Global](#) reports that the number of companies aligning sustainability with their mission has more than doubled since 2010, with 43% of all companies emphasizing the role of sustainability.

- Archinect published an article in 2019, [9 Featured Job Opportunities in Sustainable Design](#) including Project Architects, Designers, Sustainability Specialists, Sustainability Analysts, & Project Managers

- Graduates of this program will enter jobs in design firms, planning agencies, industry, government, the non-profit sector, and public policy institutes.

*U.S. Department of Labor, 2020*
Summer Internship in Sustainable Design
Gabe Tavas

Watch the video at https://mediaspace.illinois.edu/media/1_d5ryb5nf
Address organizational sustainability issues, such as waste stream management, green building practices, and green procurement plans.

**Sample of reported job titles:** Campus Energy Coordinator, Energy and Sustainability Strategic Advisor, Sustainability Advisor, Sustainability Champion, Sustainability Consultant, Sustainability Coordinator, Sustainability Specialist, Sustainable Design Champion, Sustainable Design Consultant, Sustainable Design Coordinator

**Projected growth (2019-2029)** Faster than average (5% to 7%)

**Technology Skills Needed:** Analytical/scientific software (life cycle assessment), CAD, Graphics (Adobe), Data (SQL), Microsoft suite

**Interests:**
- **Enterprising** - Enterprising occupations frequently involve starting up and carrying out projects. These occupations can involve leading people and making many decisions. Sometimes they require risk taking and often deal with business.
- **Investigative** - Investigative occupations frequently involve working with ideas, and require an extensive amount of thinking. These occupations can involve searching for facts and figuring out problems mentally.
- **Artistic** - Artistic occupations frequently involve working with forms, designs and patterns. They often require self-expression and the work can be done without following a clear set of rules.

78% of businesses said environmental and sustainability knowledge would grow in importance as a hiring factor in the next five years, according to the [National Environmental Education Foundation](#).
BSSD Future Opportunities
Emmy Smith

Watch the video at
https://mediaspace.illinois.edu/media/1_7qm34yvn
Professional Organizations for Sustainable Design

Preview a glimpse of what sustainable designers do-

U.S. Green Building Council  www.usgbc.org
American Sustainable Business Council  https://www.asbcouncil.org/
Cradle to Cradle Products Innovation Institute  www.c2ccertified.org
Environmental Design Research Association  www.edra.org
International Society for Industrial Ecology  www.is4ie.org
Biomimicry Institute  www.biomimicry.org
National Dyson Award Winner for Alternative Wood Project

Gabe Tavas

http://symmetrywood.com/

Watch the video at
https://youtu.be/8Hs25lK8I5A
Graduate School Opportunities at Illinois

MUP in Urban Planning- accelerated 1-year pathway if accepted in junior year
MUP in Urban Planning- 2 year program, apply in senior year
MFA in Design for Responsible Innovation- accelerated 2-year pathway if accepted in junior year
MFA in Design for Responsible Innovation- 3 year program, apply in senior year
MS or MArch in Architectural Studies
MLA in Landscape Architecture
MFA in Art & Design
MFA in Industrial Design
MS in Management
JD in Law
PhD programs in Architecture or Landscape Architecture
And more!
Bachelor of Science in Sustainable Design

Preparing you for the future in a sustainable world where ideas from many disciplines will be necessary to solve complex problems.

https://faa.illinois.edu/units/sustainable-design/

Please e-mail us with any additional questions at sustaindesign@Illinois.edu