

BACHELOR OF SCIENCE IN SUSTAINABLE BUILT ENVIRONMENTS

120 units required

Fall 1			Spring 1		
SBE 195A	Introduction to Sustainability	1	SBE 195B	Careers in Sustainability	1
WRIT 101	First-Year Composition	3	WRIT 102	First-Year Composition	3
MATH 112	College Algebra	3	ECOL 182R	Introductory Biology II: Lecture	3
EVS 260	Environmental Studies	3	ECOL 182L	Introductory Biology II: Lab	1
UNIV 101	Intro to the Gen Ed Experience	1	SBS 200	Introduction to Statistics	4
	Second Language Semester 1	4		Second Language Semester 2	4
		15			16
Fall 2			Spring 2		
SBE 201	Sustainable Design and Planning	3	SBE 202	Prof Comm and Presentation	3
SBE 223	History of Sustainability Solutions	3	CHEE 204	Water & Energy *	3
PHYS102/181	Intro Physics I: Lecture/Lab (AZOnline students only)	4	ECON 200	Basic Economic Issues**	3
PHYS 110	Intro Physics I: Lecture/Lab (Main Campus students only)	4		Gen Ed: Expl Perspectives - Artist	3
	Gen Ed: Building Connections	3		Elective	3
	Gen Ed: Expl Perspectives – Hum.	3			
		16			15
Fall 3			Spring 3		
SBE 301	Introduction to Design Thinking	4	LAR 470	Intro to GIS for Land Arch and Planning	4
GEOG 367	Population Geography	3	PHIL 323	Environmental Ethics***	3
	Emphasis Area Course	3	SBE 424	Urban Ecology	3
	Emphasis Area Course	3		Gen Ed: Civic Institutions	3
	Elective	3		Emphasis Area Course	3
		16			16
Fall 4			Spring 4		
SBE 393	Professional Internship	3	SBE 498	Senior Capstone	3
SBE 480	Research Methods	3	ARC 471S	Contemp Arch and Urban Theory	3
UNIV 301	Gen Ed Portfolio	1		Emphasis Area Course	3
	Emphasis Area Course	3		Elective	4
	Emphasis Area Course	3			
		13			13

Fulfills the General Education requirements for:

* Exploring Perspectives - Natural Scientist

** Exploring Perspectives - Social Scientist

*** Building Connections

Emphasis Areas

Students are required to select one of the following emphasis areas (6 courses, 18 units):

- Heritage Conservation
- Sustainable Buildings
- Sustainable Communities
- Sustainable Landscapes
- Sustainable Real Estate Development



THE UNIVERSITY OF ARIZONA

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5/11/26

BSSBE EMPHASIS AREAS

<p>Heritage Conservation</p> <p>Explore the value of historic structures and landscapes and the reasons for preserving and adapting them. Coursework focuses on how the preservation and adaptation of historic structures advances environmental, cultural and economic sustainability. Learn the processes and protocols of conservation as well as current issues in historic preservation and resource management.</p>	<p><i>Main Campus</i></p> <p>AIS 431A Traditional Ecological Knowledge LAR 465 Cultural Landscapes LAR 471F Introduction to Heritage Conservation LAR 497J Doc and Interp of the Historic Built Envir PLG 408 Climate Action Planning PLG 464 Preservation Planning Issues</p>
<p>Sustainable Buildings</p> <p>Explore the science and practice the techniques behind building energy efficiency. Hands-on coursework includes such topics as climate-responsive design, net-zero energy design, energy conservation, passive solar design and natural ventilation systems. In this interdisciplinary program, students learn how to analyze existing and planned structures and use critical-thinking skills and solutions-based strategies to create workable plans to make those buildings more efficient.</p>	<p><i>Main Campus</i></p> <p>ARC 461K Energy and the Environment ARC 461M Energy Efficient Design ARC 461N Energy Auditing and Modeling LAR 471F Introduction to Heritage Conservation RED 415 Construction and Project Management Academic advisor approved elective course</p> <hr/> <p><i>AZ Online</i></p> <p>ARC 461K Energy and the Environment ARC 461L Energy Use in Building ARC 461M Energy Efficient Design ARC 461N Energy Auditing and Modeling LAR 471F Introduction to Heritage Conservation RED 415 Construction and Project Management</p>
<p>Sustainable Communities</p> <p>Discover how local and regional planning creates more sustainable communities. Explore climate action planning, transportation planning and urban development—and build critical thinking skills and a solutions-based approach to navigate the urban challenges of the present and future. Learn how planning impacts—and is influenced by—the environment, and how to make cities more sustainable and resilient.</p>	<p><i>Main Campus</i></p> <p>PLG 402 Planning for Sust Cities and Regions PLG 408 Climate Action Planning PLG 468 Urban Transportation Planning PLG 472 Environmental Planning PLG 476 The Land Development Process PLG 497S Sust Urban Development and Design</p>
<p>Sustainable Landscapes</p> <p>Learn about environmental design, planning and management challenges and how to overcome them. Study subjects such as water harvesting, passive cooling, urban heat island mitigation, climate adaptability and how landscapes can improve human health. Explore urban ecology, natural resource management and environmental policy.</p>	<p><i>Main Campus</i></p> <p>LAR 420 Plant Materials LAR 422 Landscape Analysis LAR 423 Landscape Ecology LAR 440 Contemporary Landscape Architecture LAR 428 Landscape Planning PLG 408 Climate Action Planning</p>
<p>Sustainable Real Estate Development</p> <p>Coursework focuses on sustainable practices, urban design, real estate finance, site development and construction. Learn practical business skills such as accounting, marketing and economics.</p>	<p><i>Main campus and AZ Online</i></p> <p>PLG 476 The Land Development Process RED 407 Survey of Responsible RED RED 409 Due Diligence and Entitlements RED 415 Construction and Project Management RED 421 Placemaking and Urban Form RED 425 Real Estate Market Analysis</p>

