## 2024 - 2025 Major Map

Sustainable Horticulture Elective

## Applied Biological Sciences (Sustainable Horticulture), BS

School/College: College of Integrative Sciences and Arts

TSABSUBS

erm 1 0 - 14 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
▶ BIO 181: General Biology I (SCIT OR SQ)	4	С	ASU 101 or college-specific equivalent	
ASU 101-CLS: The ASU Experience	1		First-Year Seminar required of all first-year students  • Select your Career Interest Communities and play me3@ASU.	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	С		
MAT 251: Calculus for Life Sciences (MATH OR MA)	3	С		
Social and Behavioral Sciences (SOBE)	3			
Term hours subtotal:	14			
erm 2 14 - 29 Credit Hours Critical course signified by 💠	Hours	Minimum Grade	Notes	
BIO 182: General Biology II (SCIT OR SG)	4	C	• Students considering graduate school	
ABS 100: Discovering the Professions	1	C	should complete the PHY 111/113 and PHY 112/114 sequence, using PHY 112/114 in place of electives. All other students will complete PHY 101.  • Join a student club or professional organization.	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C		
PHY 101: Introduction to Physics (SCIT OR SQ) OR PHY 111: General Physics (SCIT OR SQ) AND PHY 113: General Physics Laboratory (SCIT OR SQ)	4	С		
Humanities, Arts and Design (HUAD)				
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).				
Term hours subtotal:	15			
erm 3 29 - 45 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
CHM 113: General Chemistry I (SCIT OR SQ)	4	С	<ul> <li>Secure a part-time job or volunteer experience.</li> </ul>	
Global Communities, Societies and Individuals (GCSI)	3			
Governance and Civic Engagement (CIVI)				
Sustainability (SUST)	3			
Elective	3			
Complete Mathematics (MATH) requirement.				
Term hours subtotal:	16			
erm 4 45 - 59.5 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
ABS 260: Fundamentals of Sustainable Horticulture (SG)	4	C	<ul> <li>Sustainable Horticulture Elective chose from list below.</li> </ul>	
CHM 116: General Chemistry II (SCIT OR SQ)	4	С		
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Term hours subtotal:	14.5		
Cerm 5 59.5 - 76 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
ABS 363: Sustainable Landscape Practice	4	С	<ul> <li>Students considering graduate school should complete the Organic Chemist Sequence of both CHM 233/237 and CHM 234/238 sequence, using CHM 234/238 in place of electives.</li> <li>Connect with faculty to seek opportunities for research.</li> </ul>
ABS 370: Ecology	3	С	
ABS 300: Career Competencies and Skills	.5	C	
CHM 231: Elementary Organic Chemistry (SCIT OR SQ) AND CHM 235: Elementary Organic Chemistry Laboratory (SCIT OR SQ) OR CHM 233: General Organic Chemistry I AND CHM 237: General Organic Chemistry Laboratory I	4	C	
Upper Division Elective	3		
Elective	2		
Term hours subtotal:	16.5		
erm 6 76 - 90 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
ABS 368: Plant Propagation	3	С	Use Handshake to research employme opportunities.
BIO 340: General Genetics	4	С	
ABS 362: Landscape Plants	4	С	
Upper Division Elective	3		
Term hours subtotal:	14		
erm 7 90 - 105 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
ABS 311: Molecular and Cellular Biology OR ABS 314: Applied Plant Physiology OR BIO 353: Cell Biology OR BIO 360: Animal Physiology	3	С	<ul> <li>Gather professional references.</li> <li>Apply for full-time career opportunities.</li> </ul>
ABS 350: Applied Statistics (QTRS OR CS)	3	С	
ABS 464: Desert Horticulture	3	С	
American Institutions (AMIT)	3		
Upper Division Elective	3		
Term hours subtotal:	15		
erm 8 105 - 120 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
ABS 490: Applied Biological Sciences Seminar	1	С	
Upper Division Sustainable Horticulture Elective	3	С	
Complete 2 courses: Upper Division Elective	5		
Complete 2 courses: Elective	6		
Term hours subtotal:	15		
ide Course List(s)/Track Group(s)			
Sustainable Horticulture Elective			
ABS 225: Soils (SQ)			

ABS 364: Urban Forestry

• Total Hours: 120

• Upper Division Hours: 45 minimum

• University Undergraduate Graduation Requirements

## **Notes:**

Mathematics Placement Assessment score determines placement in first mathematics course.

Students must complete a minimum of 12 credit hours of science courses offered by the College of Integrative Sciences and Arts. Select from ABS, CHM, BIO, PHY, and MIC subject codes.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.