

## 2023 - 2024 Major Map

### Sustainable Food Systems, BS

School/College: [College of Global Futures](#)  
SUSFOSYSBS

Term 1 - A 0 - 7 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
SOS 191: Introduction to ASU & SOS for First Year Students OR			
 SOS 201: Introduction to ASU and School of Sustainability for Transfer Students	1	C	<ul style="list-style-type: none"> <li>• SOS 191 or college-specific equivalent First-Year Seminar is required of all first-year students</li> <li>• SOS 201 required of all Sustainability transfer students</li> </ul>
ENG 101 or ENG 102: First-Year Composition OR			
ENG 105: Advanced First-Year Composition OR	3	C	
ENG 107 or ENG 108: First-Year Composition			
SOS 111: Sustainable Cities ((HU or SB) & G)	3	C	
Term hours subtotal:	7		
Term 1 - B 7 - 13 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 SOS 101: Introduction to Applied Mathematics for the Life and Social Sciences (MA)	3	C	<ul style="list-style-type: none"> <li>• View ASU Online first-year student registration information <a href="#">here</a>.</li> </ul>
ENG 101 or ENG 102: First-Year Composition OR			
ENG 105: Advanced First-Year Composition OR	3	C	
ENG 107 or ENG 108: First-Year Composition			
 Minimum 2.50 GPA in SOS and SFS.			
 Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	6		
Term 2 - A 13 - 22 Credit Hours	Hours	Minimum Grade	Notes
SOS 110: Sustainable World (SB)	3	C	<ul style="list-style-type: none"> <li>• Create a first draft <a href="#">resume</a>.</li> </ul>
SOS 211: Calculus and Probability for the Life and Social Sciences (MA)	3	C	
Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)	3		
Term hours subtotal:	9		
Term 2 - B 22 - 29 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
CHM 101: Introductory Chemistry (SQ) OR CHM 113: General Chemistry I (SQ) OR CHM 114: General Chemistry for Engineers (SQ)	4	C	
SOS 212: Systems, Dynamics and Sustainability	3	C	
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
 Complete SOS 110 AND SOS 111 course(s).			
 Minimum 2.50 GPA in SOS and SFS.			
 Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	7		

Term 3 - A 29 - 38 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 SOS 220: Systems Thinking	3	C	
NTR 241: Human Nutrition	3	C	
SFS 215: Fundamentals of Sustainable Food Systems (L)	3	C	
Term hours subtotal:	9		

Term 3 - B 38 - 47 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 Computer/Statistics/Quantitative Applications (CS)	3		
SFS 216: The Sustainable Plate	3	C	
Skills Elective	3	C	
 Complete First-Year Composition requirement.			
 Complete SOS 211 AND SOS 212 course(s).			
 Minimum 2.50 GPA in SOS and SFS.			
 Minimum 2.50 GPA ASU Cumulative.			
Complete Mathematics (MA) requirement.			
Term hours subtotal:	9		

Term 4 - A 47 - 55 Credit Hours	Hours	Minimum Grade	Notes
SOS 231: Careers in Sustainability	1	C	<ul style="list-style-type: none"> <li>• <b>ASU Language Placement:</b> Only true beginners are eligible for 101-level courses. All other students are required to take a placement or proficiency exam, regardless of prior credit earned. CLEP and AP credit are also viable options for fulfilling the second language requirement.</li> </ul>
Second Language: Requirement satisfied through the following: * Completion of language course(s) at the 102 level.	4	C	
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
Term hours subtotal:	8		

Term 4 - B 55 - 63 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
SOS 182: Water Planet (SQ)	4	C	
Second Language: Requirement satisfied through the following: * Completion of language course(s) at the 102 level.	4	C	
 Complete SFS 215 AND SFS 216 course(s).			
 Minimum 2.50 GPA in SOS and SFS.			
 Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	8		

Term 5 - A 63 - 72 Credit Hours	Hours	Minimum Grade	Notes
SOS 310: Equity, Justice and Sustainability	3	C	<ul style="list-style-type: none"> <li>• Students will select one focus area and complete 12 credit hours of courses from that area. Students may also talk with their <b>academic advisor</b> to craft a unique focus area.</li> <li>• <b>Schedule an appointment</b> with a College of Global Futures Career Advisor to review your resume.</li> </ul>
SOS 326: Sustainable Ecosystems	3	C	
Focus Area Course	3	C	
Term hours subtotal:	9		

Term 5 - B 72 - 81 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
SOS 311: Future Thinking and Strategies	3	C	
SOS 327: Sustainable Food and Farms	3	C	

Skills Elective 3 C

★ Minimum 2.50 GPA in SOS and SFS.

★ Minimum 2.50 GPA ASU Cumulative.

Term hours subtotal: 9

Term 6 - A 81 - 90 Credit Hours	Hours	Minimum Grade	Notes
Upper Division Focus Area Course	3	C	<ul style="list-style-type: none"><li>Students will select one focus area and complete 12 credit hours of courses from that area. Students may also talk with their <b>academic advisor</b> to craft a unique focus area.</li></ul>
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3		
Upper Division Elective	3		
Term hours subtotal:	9		

Term 6 - B 90 - 96 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
Elective	3		<ul style="list-style-type: none"><li>Begin exploring internship opportunities and start learning more about the <b>capstone internship</b> requirement.</li></ul>
Upper Division Elective	3		
★ Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			
★ Minimum 2.50 GPA in SOS and SFS.			
★ Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	6		

Term 7 - A 96 - 103 Credit Hours	Hours	Minimum Grade	Notes
SFS 484: Capstone: Internship OR SOS 484: Capstone: Internship	4	B-	<ul style="list-style-type: none"><li>Students will select one focus area and complete 12 credit hours of courses from that area. Students may also talk with their <b>academic advisor</b> to craft a unique focus area.</li></ul>
Upper Division Focus Area Course	3	C	
Term hours subtotal:	7		

Term 7 - B 103 - 108 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
Upper Division Elective	2		<ul style="list-style-type: none"><li>Schedule an appointment with a College of Global Futures Career Advisor to discuss and refine your career search process.</li></ul>
Elective	3		
★ Minimum 2.50 GPA in SOS and SFS.			
★ Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	5		

Term 8 - A 108 - 114 Credit Hours	Hours	Minimum Grade	Notes
SFS 498: Pro-Seminar (L)	3	B-	<ul style="list-style-type: none"><li>Students will select one focus area and complete 12 credit hours of courses from that area. Students may also talk with their <b>academic advisor</b> to craft a unique focus area.</li></ul>
Upper Division Focus Area Course	3	C	
Term hours subtotal:	6		

Term 8 - B 114 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
Complete 2 courses: Upper Division Elective	6		
★ Minimum 2.50 GPA in SOS and SFS.			
★ Minimum 2.50 GPA ASU Cumulative.			

- Students must select one of the following focus areas:
  - Procurement
  - Ecosystem Science
  - Business & Innovation
  - Educational Leadership
  - Global Engagement
  - Policy & Governance
  - Public Health & Nutrition
- Students must declare a focus area by the end of Term 4.

Hide Course List(s)/Track Group(s)

Skills Electives	Procurement	Ecosystem Science
CIS 105: Computer Applications and Information Technology (CS)	AGB 250: Economics of Resource Allocation: Food and Agriculture	ABS 270: Sustainable Biological Systems
CIS 300: Web Design and Development	AGB 425: Food Supply Networks	BIO 100: The Living World (SQ) or BIO 181: General Biology I (SQ)
COM 225: Public Speaking (L)	AGB 435: Commodity Futures and Options Markets	BIO 108: Concepts in Plant Biology (SQ)
ECN 211: Macroeconomic Principles (SB)	AGB 445: Food Retailing	BIO 130: Introduction to Environmental Science (SQ)
ECN 212: Microeconomic Principles (SB)	AGB 456: Food Product Innovation and Development	BIO 182: General Biology II (SG)
ENG 216: Persuasive Writing on Public Issues (L)	AGB 481: Strategic Pricing in Food Markets	BIO 304: Plants and Civilization (L)
GIS 205: Geographic Information Science I (CS)	NTR 142: Applied Food Principles	BIO 320: Fundamentals of Ecology
GIS 211: Geographic Information Science II (CS)	NTR 343: Food Service Purchasing	BIO 322: Conservation of Biodiversity
MGT 430: Negotiations	NTR 344: Nutrition Management and Leadership (L)	PLB 302: Plants and Civilization (L)
SOS 232: Professional Skills in Sustainability Practice	NTR 445: Management of Food Service Systems	SES 106: Habitable Worlds (SQ)
	NTR 455: Retail Food Service Operations	SOS 314: Basic Energy Science
	SOS 328: Sustainability and Enterprise	
	SOS 485: Business and Sustainability II or SCM 485: Business and Sustainability II	
	SOS 498: Interventions on Sustainable Consumption on Campus (L)	
	SOS 498: Sustainable Food Economy (L)	
Business & Innovation (at least 2 courses must be from AGB, BUS, CIS, ECN, ENT, MGT, MKT or SCM)	Educational Leadership	Global Engagement
AGB 250: Economics of Resource Allocation: Food and Agriculture	CDE 232: Human Development (SB)	AGB 302: International Management and Agribusiness (G)
AGB 302: International Management and Agribusiness (G)	ECD 220: Introduction to Nutrition, Health and Safety	ASB 305: Poverty and Global Health ((L or SB) & G)
AGB 420: Food Advertising and Promotion	EDP 310: Children and Poverty (SB)	GCU 121: World Geography (SB & G)
AGB 425: Food Supply Networks	EDP 310: Developing as a Leader (SB)	GCU 432: Geography of China (SB & G)
	EDP 310: Educational Psychology for Non-Teachers (SB)	POS 160: Global Politics (SB & G)

AGB 435: Commodity Futures and Options Markets	EDP 310: Motivation (SB)	POS 240: Introduction to Southeast Asia ((HU or SB) & G)
AGB 445: Food Retailing	EDP 310: Multicultural Issues (SB)	POS 260: Current Issues in International Politics ((L or SB) & G)
AGB 456: Food Product Innovation and Development	HEP 102: Foundations of Health Education and Health Promotion	POS 300: Contemporary Global Controversies (SB & G)
AGB 481: Strategic Pricing in Food Markets	NTR 343: Food Service Purchasing	POS 348: Do You Want to Build a Nation? (L)
ENT 360: Entrepreneurship and Value Creation	NTR 344: Nutrition Management and Leadership (L)	SOS 322: International Development and Sustainability
MKT 300: Marketing and Business Performance	NTR 445: Management of Food Service Systems	STS 329: Technology in Developing Countries (SB & G)
MKT 390: Essentials of Marketing	OGI 200: Introduction to Organizational Leadership (SB)	STS 332: Global Issues in Science and Technology (SB)
MKT 391: Essentials of Selling	OGI 220: Behavioral Dynamics in Organizations (SB)	TEM 450: Design for the Developing World
NTR 343: Food Service Purchasing	OGI 260: Resource Allocation in Organizations	
NTR 455: Retail Food Service Operations	OGI 355: Leading Organizational Innovation and Change	
SOS 328: Sustainability and Enterprise	SCN 300: Foundations of Environmental Education	
SOS 385: Business and Sustainability I or SCM 385: Business and Sustainability I	TEL 111: Exploration of Education (SB)	
SOS 485: Business and Sustainability II or SCM 485: Business and Sustainability II	TEL 215: Introduction to Child and Adolescent Development (SB)	
STS 329: Technology in Developing Countries (SB & G)	TEL 405: History of Education and Policy Reform in the United States	
TDM 481: Sustainable Food Management in Tourism	USL 210: Service Learning: Intro to Diverse Community Issues (L & C)	
TEM 455: Global Impact Entrepreneurship		
<b>Policy &amp; Governance</b>	<b>Public Health &amp; Nutrition</b>	
JUS 214: The Pursuit of Justice in the 21st Century (SB)	AGB 420: Food Advertising and Promotion	
PAF 201: Economics and Public Policy (SB)	AGB 425: Food Supply Networks	
PAF 340: Contemporary Policy Challenges	ASB 100: Introduction to Global Health (SB & G)	
PAF 420: Managing Across Boundaries	ASB 301: Global History of Health (SB & G & H) or SSH 301: Global History of Health (SB & G & H) or HST 301: Global History of Health (SB & G & H)	
POS 216: State and Local Government (SB)	ASB 305: Poverty and Global Health ((L or SB) & G)	
POS 310: American National Government (SB)	ASB 443: Cross-Cultural Studies in Global Health ((L or SB) & G) or SSH 403: Cross-Cultural Studies in Global Health ((L or SB) & G)	
POS 313: The Congress (SB)	BIO 100: The Living World (SQ) or BIO 181: General Biology I (SQ)	
POS 325: Public Policy Development (SB)	BIO 182: General Biology II (SG)	
POS 333: Interest Groups (SB)	HCI 311: Health Innovation: Foundational Concepts	
POS 471: Constitutional Law I (SB)		
POS 472: Constitutional Law II (SB)		
SOS 321: Policy and Governance in Sustainable Systems		
SOS 322: International Development and Sustainability		

HCR 230: Culture and Health (C & G)
HSC 355: Eating for Lifelong Health (SB)
NTR 142: Applied Food Principles
NTR 320: History of Human Nutrition (H)
NTR 343: Food Service Purchasing
NTR 344: Nutrition Management and Leadership (L)
NTR 348: Cultural Aspects of Food (SB & C & G)
NTR 351: Nutrition Communication (L)
NTR 353: The Western Diet
NTR 445: Management of Food Service Systems
NTR 450: Nutrition in the Life Cycle (SB)
NTR 455: Retail Food Service Operations
PBH 422: Health Disparities and Access to Health
POP 100: Introduction to Population Health
SOS 370: Ethics of Eating (L or SB)

**Notes:**

- First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs. Visit: <https://cisa.asu.edu/DSP>
- Mathematics Placement Assessment score determines placement in first mathematics course.

**Total Hours:** 120

**Upper Division Hours:** 45 minimum

**Major GPA:** 2.00 minimum

**Cumulative GPA:** 2.00 minimum

**Total hrs at ASU:** 30 minimum

**Hrs Resident Credit for**

**Academic Recognition:** 56 minimum

**Total Community College Hrs:** 64 maximum

**General University Requirements Legend**

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)

- Global Awareness (G)
- Historical Awareness (H)

#### First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2023 - 2024 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.