

















2023 - 2024 Major Map






Sustainable Food Systems, BS

School/College: College of Global Futures
SUSFOSYSBS

Term 1 0 - 14 Credit Hours Critical course signified by 	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"> SOS 191 or college-specific equivalent First-Year Seminar required of all first-year students. SOS 201 required of all Sustainability transfer students. ASU Language Placement: 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.
 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	
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	
SOS 111: Sustainable Cities ((HU or SB) & G)	3	C	
Second Language: Requirement satisfied through the following: * Completion of language course(s) at the 102 level.	4	C	
 Minimum 2.50 GPA in SFS and SOS.			
 Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	14		

Term 2 14 - 30 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
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	<ul style="list-style-type: none"> ASU Language Placement: 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. Join a student club or professional organization.
SOS 110: Sustainable World (SB)	3	C	
SOS 211: Calculus and Probability for the Life and Social Sciences (MA)	3	C	
Second Language: Requirement satisfied through the following: * Completion of language course(s) at the 102 level.	4	C	
Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)	3		
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
 Complete SOS 110 AND SOS 111 course(s).			
 Minimum 2.50 GPA in SFS and SOS.			
 Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	16		

Term 3 30 - 46 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 SOS 220: Systems Thinking	3	C	<ul style="list-style-type: none"> Create a first draft resume. Start attending sustainability career-related workshops and lectures.
CHM 101: Introductory Chemistry (SQ) OR CHM 113: General Chemistry I (SQ) OR CHM 114: General Chemistry for Engineers (SQ)	4		
SFS 215: Fundamentals of Sustainable Food Systems (L)	3	C	
SOS 212: Systems, Dynamics and Sustainability	3	C	
Computer/Statistics/Quantitative Applications (CS)	3		
 Complete First-Year Composition requirement.			
 Minimum 2.50 GPA in SFS and SOS.			
 Minimum 2.50 GPA ASU Cumulative.			
Complete Mathematics (MA) requirement.			
Term hours subtotal:	16		
Term 4 46 - 60 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes

NTR 241: Human Nutrition	3	C	
SFS 216: The Sustainable Plate	3	C	
SOS 182: Water Planet (SQ)	4	C	
SOS 231: Careers in Sustainability	1	C	
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
 Complete SFS 215 AND SFS 216 course(s).			
 Complete SOS 211 AND SOS 212 course(s).			
 Minimum 2.50 GPA in SFS and SOS.			
 Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	14		
Term 5 60 - 75 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes

SOS 310: Equity, Justice and Sustainability	3	C	<ul style="list-style-type: none"> Meet with a College of Global Futures Career Advisor to review your resume.
SOS 311: Future Thinking and Strategies	3	C	
SOS 326: Sustainable Ecosystems	3	C	
SOS 327: Sustainable Food and Farms	3	C	
Skills Elective	3	C	

★ Minimum 2.50 GPA in SFS and SOS.

★ Minimum 2.50 GPA ASU Cumulative.

Term hours subtotal: 15

Term 6 75 - 90 Credit Hours Necessary course signified by



Hours

**Minimum
Grade**

Notes

Upper Division Focus Area Course

3

C

Focus Area Course

3

C

Skills Elective

3

C

Upper Division Humanities, Arts and Design (HU) OR
Upper Division Social-Behavioral Sciences (SB)

3

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 SFS and SOS.

★ Minimum 2.50 GPA ASU Cumulative.

Term hours subtotal: 15

- Students will select one focus area and complete 12 credit hours of courses from that area. Students may also talk with their academic advisor to craft a unique focus area.
- Begin exploring internship opportunities and start learning more about the [capstone internship](#) requirement.

Term 7 90 - 105 Credit Hours Necessary course signified by



Hours

**Minimum
Grade**

Notes

SFS 484: Capstone: Internship OR
SOS 484: Capstone: Internship

4

B-

Upper Division Focus Area Course

3

C

Complete 2 courses:
Upper Division Elective

5

Elective

3

★ Minimum 2.50 GPA in SFS and SOS.

★ Minimum 2.50 GPA ASU Cumulative.

Term hours subtotal: 15

- Students will select one focus area and complete 12 credit hours of courses from that area. Students may also talk with their academic advisor to craft a unique focus area.
- Meet with a College of Global Futures Career Advisor to discuss and refine your [career search process](#).

Term 8 105 - 120 Credit Hours Necessary course signified by



Hours

**Minimum
Grade**

Notes

SFS 498: Pro-Seminar (L)

3

B-

Upper Division Focus Area Course

3

C

Complete 3 courses:
Upper Division Elective

9

★ Minimum 2.50 GPA in SFS and SOS.

- Students will select one focus area and complete 12 credit hours of courses from that area. Students may also talk with their academic advisor to craft a unique focus area.



Term hours subtotal: 15

- ○ 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
AME 130: Prototyping Dreams (L)	AGB 250: Economics of Resource Allocation: Food and Agriculture	ABS 207: Applied Plant Taxonomy
CIS 105: Computer Applications and Information Technology (CS)	AGB 425: Food Supply Networks	ABS 260: Fundamentals of Sustainable Horticulture (SG)
CIS 300: Web Design and Development	AGB 435: Commodity Futures and Options Markets	ABS 270: Sustainable Biological Systems
COM 225: Public Speaking (L)	AGB 445: Food Retailing	ABS 314: Applied Plant Physiology
COM 459: Theory and Methods of Social Media Networks	AGB 456: Food Product Innovation and Development	ABS 318: Unseen Life on Earth
ECN 211: Macroeconomic Principles (SB)	AGB 481: Strategic Pricing in Food Markets	ABS 368: Plant Propagation
ECN 212: Microeconomic Principles (SB)	NTR 142: Applied Food Principles	ABS 370: Ecology
ENG 216: Persuasive Writing on Public Issues (L)	NTR 343: Food Service Purchasing	ABS 380: Restoration and Wildlife Plants
FIS 305: Ways of Knowing (L)	NTR 344: Nutrition Management and Leadership (L)	ABS 394: Food and Human Health
GIS 205: Geographic Information Science I (CS)	NTR 445: Management of Food Service Systems	ABS 452: Commercial Applications of Fermentation
GIS 211: Geographic Information Science II (CS)	NTR 455: Retail Food Service Operations	ABS 460: Organic Gardening
MGT 430: Negotiations	SOS 328: Sustainability and Enterprise	ABS 464: Desert Horticulture
NLM 300: Fund Raising and Resource Development	SOS 485: Business and Sustainability II or SCM 485: Business and Sustainability II	BIO 100: The Living World (SQ) or BIO 181: General Biology I (SQ)
SOS 232: Professional Skills in Sustainability Practice	SOS 498: Interventions on Sustainable Consumption on Campus (L)	BIO 108: Concepts in Plant Biology (SQ)
SST 220: Introduction to Social Transformation	SOS 498: Sustainable Food Economy (L)	BIO 130: Introduction to Environmental Science (SQ)
	TDM 481: Sustainable Food Management in Tourism	BIO 182: General Biology II (SG)
		BIO 304: Plants and Civilization (L)
		BIO 320: Fundamentals of Ecology
		BIO 322: Conservation of Biodiversity
		BIO 386: General Entomology
		BIO 418: Soil Ecology
		BIO 434: People and Nature: Ecosystem Services
		CEE 181: Technological, Social, and Sustainable Systems (HU)

PLB 302: Plants and Civilization (L)

SES 106: Habitable Worlds (SQ)

SOS 314: Basic Energy Science

SOS 429: Human Impacts on Ecosystem Functioning or BIO 429: Human Impacts on Ecosystem Functioning

Global Engagement

AGB 302: International Management and Agribusiness (G)

AGB 452: Global Food and Agricultural Trade

AIS 180: Introduction to American Indian Studies (C)

AIS 320: American Indian Philosophies and World Views (HU & C)

AIS 480: Actualizing Decolonization (HU & C & G)

ASB 305: Poverty and Global Health ((L or SB) & G)

GCU 121: World Geography (SB & G)

GCU 432: Geography of China (SB & G)

JHR 305: Theory and Practice of Social Justice and Human Rights (SB & G)

JHR 484: Human Trafficking

POS 160: Global Politics (SB & G)

POS 240: Introduction to Southeast Asia ((HU or SB) & G)

POS 260: Current Issues in International Politics ((L or SB) & G)

POS 300: Contemporary Global Controversies (SB & G)

POS 348: Do You Want to Build a Nation? (L)

POS 367: World Politics and Global Inequalities (G)

POS 454: Mexico (SB & G)

POS 480: Global Justice (G)

SGS 203: Contemporary Global Trends (SB & G)

SOS 322: International Development and Sustainability

SOS 456: Human Rights and Sustainability ((L or SB) & G)

STS 329: Technology in Developing Countries (SB & G)

STS 332: Global Issues in Science and Technology (SB)

TEM 450: Design for the Developing World

Educational Leadership

CDE 232: Human Development (SB)

CDE 337: Early Childhood Intervention

ECD 211: The Developing Child: Theory into Practice, Prenatal-Grade 3 (SB)

ECD 220: Introduction to Nutrition, Health and Safety

EDP 310: Children and Poverty (SB)

EDP 310: Developing as a Leader (SB)

EDP 310: Educational Psychology for Non-Teachers (SB)

EDP 310: Motivation (SB)

EDP 310: Multicultural Issues (SB)

HEP 102: Foundations of Health Education and Health Promotion

NTR 343: Food Service Purchasing

NTR 344: Nutrition Management and Leadership (L)

NTR 445: Management of Food Service Systems

OGL 200: Introduction to Organizational Leadership (SB)

OGL 220: Behavioral Dynamics in Organizations (SB)

OGL 260: Resource Allocation in Organizations

OGL 355: Leading Organizational Innovation and Change

SCN 209: Introduction to Environmental Education Project

SCN 300: Foundations of Environmental Education

SCN 301: Ecology and Natural History of the Sonoran Desert (SG)

SCN 302: Environmental Education: A Global Perspective (L & G)

TEL 111: Exploration of Education (SB)

TEL 215: Introduction to Child and Adolescent Development (SB)

TEL 405: History of Education and Policy Reform in the United States

USL 210: Service Learning: Intro to

Business & Innovation (at least 2 courses must be from AGB, BUS, CIS, ECN, ENT, MGT, MKT or SCM)

AGB 100: Introduction to Agribusiness

AGB 250: Economics of Resource Allocation: Food and Agriculture

AGB 302: International Management and Agribusiness (G)

AGB 321: Agribusiness Marketing

AGB 333: Agribusiness Finance

AGB 366: Agribusiness Production Technologies

AGB 414: Food and Agribusiness Policy Issues (L)

AGB 420: Food Advertising and Promotion

AGB 425: Food Supply Networks

AGB 435: Commodity Futures and Options Markets

AGB 445: Food Retailing

AGB 452: Global Food and Agricultural Trade

AGB 456: Food Product Innovation and Development

AGB 481: Strategic Pricing in Food Markets

BUS 424: Sales and Negotiations

BUS 434: Business Risk Management

ENT 305: Principles of Entrepreneurship

ENT 340: Creativity and Innovation (L or HU)

ENT 360: Entrepreneurship and Value Creation

FIS 308: Politics, Markets and Innovation (SB)

MKT 300: Marketing and Business Performance

MKT 390: Essentials of Marketing

MKT 391: Essentials of Selling

MKT 395: Essentials of Advertising and Marketing Communication

MKT 435: Entrepreneurial Marketing

NTR 343: Food Service Purchasing
NTR 455: Retail Food Service Operations
SOS 328: Sustainability and Enterprise
SOS 385: Business and Sustainability I or SCM 385: Business and Sustainability I
SOS 485: Business and Sustainability II or SCM 485: Business and Sustainability II
STS 329: Technology in Developing Countries (SB & G)
TDM 481: Sustainable Food Management in Tourism
TEM 455: Global Impact Entrepreneurship

Policy & Governance
AGB 414: Food and Agribusiness Policy Issues (L)
AGB 452: Global Food and Agricultural Trade
JUS 214: The Pursuit of Justice in the 21st Century (SB)
PAF 201: Economics and Public Policy (SB)
PAF 340: Contemporary Policy Challenges
PAF 420: Managing Across Boundaries
POS 216: State and Local Government (SB)
POS 230: Current Issues in National Politics (L or SB)
POS 310: American National Government (SB)
POS 313: The Congress (SB)
POS 325: Public Policy Development (SB)
POS 333: Interest Groups (SB)
POS 417: Arizona Politics (SB)
POS 471: Constitutional Law I (SB)
POS 472: Constitutional Law II (SB)
POS 480: Global Justice (G)
SOS 321: Policy and Governance in Sustainable Systems
SOS 322: International Development and Sustainability
SOS 456: Human Rights and Sustainability ((L or SB) & G)

Diverse Community Issues (L & C)
USL 402: Service Learning: Education & Youth (C)

Public Health & Nutrition
AGB 414: Food and Agribusiness Policy Issues (L)
AGB 420: Food Advertising and Promotion
AGB 425: Food Supply Networks
ASB 100: Introduction to Global Health (SB & G)
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)
ASB 305: Poverty and Global Health ((L or SB) & G)
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)
BIO 100: The Living World (SQ) or BIO 181: General Biology I (SQ)
BIO 182: General Biology II (SG)
HCI 311: Health Innovation: Foundational Concepts
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 448: Community Nutrition (L)

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.