SPECIALTY AGRICULTURE, B.S.

Specialty Agriculture

Specialty Agriculture in this context refers to sustainable, high-yield agriculture that can be economically sustainable in mountainous regions and small land areas. The Bachelor of Science in Specialty Agriculture provides educational opportunities in agriculture, agribusiness, and agrotourism, covering both traditional and sustainable agricultural sciences. New and emerging technologies for high yield and specialty agriculture are emphasized, as they will improve agribusiness outcomes for smaller farms that are characteristic of the region. Focus of the major includes, but is not limited to, the agricultural aspects of greenhouse production, hydroponics, precision farming, urban agriculture, community gardens, and specialty crop production.

- General Education Course

► Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Course Requirements

Code	Title	Credit Hours		
Core Curriculun	Core Curriculum			
Core 1: Critical Thinking				
FYS 100	First Yr Sem Critical Thinking	3		
Critical Thinking	Courses	6		
NRE 120 💎	Discussions in Envrion Science			
NRE 220 💎	Human Dimensions of Nat Res			
Core 2				
ENG 101 💏 🎏	Beginning Composition	3		
ENG 201 💏 🎏	Advanced Composition	3		
CMM 103 < ↑	Fund Speech-Communication	3		
Core II Math: Sel	ect one of the following:	3-5		
MTH 140 🚗	Applied Calculus			
MTH 229 💎	Calculus/Analytic Geom I (CT)			
Core II Humaniti	es	3		
Core II Social Sci	ence	3		
GEO 222 💎	Global Environment Issues (CT) (recommended	(k		
Core II Fine Arts		3		
Core II Physical/N	Natural Science	4		
BSC 120 💎	Principles of Biology I			
BSC 120L 💎	Principles of Biology I Lab			
Additional University Requirements				
Writing Intensive		3		
GEO 222 💎	Global Environment Issues (CT) (recommended	(k		

Writing Intensive		
Multicultural or International		
GEO 222 💎	Global Environment Issues (CT) (recommended)	
Capstone		3
NRE 470 💎	ES Internship	
or NRE 491	ES Senior Capstone	
Department Re	quirements	
CIT 150	Spreadsheet and Database Apps	3
Select one of the	following:	3-5
MTH 140 💎	Applied Calculus	
MTH 229 💎	Calculus/Analytic Geom I (CT)	
NRE 120 💎	Discussions in Envrion Science	3
NRE 220 💎	Human Dimensions of Nat Res	3
NRE 490	ES/NRRM Capstone Prep	3
NRE 470 💎	ES Internship	3
or NRE 491	ES Senior Capstone	
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NRRM 200	Analytical Methods: Statistics	4
Major-Specific R	Requirements	
BSC 120 💎	Principles of Biology I	3
BSC 120L 💎	Principles of Biology I Lab	1
BSC 121 💎	Principles of Biology II	3
BSC 121L 🚗	Prin of Biology II Lab	1
CHM 211 💎	Principles of Chemistry I	3
CHM 212 💎	Principles Chemistry II	3
CHM 217 💎	Principles of Chem Lab I	2
CHM 218 💎	Principles of Chem Lab II	2
ENT 250	Intro to Entrepreneurship	3
MGT 320	Principles of Management	3
NRE 200	Introduction to Agriculture	3
NRE 300	Principles of Soil Science	3
NRE 301	Principles of Soil Science Lab	2
NRE 302	Animal Production	3
NRE 322	Assess I: Terrestrial Systems	4
NRE 323	Assessment II: Aquatic Ecology	4
NRE 401	Horticulture	4
NRE 402	Sustainable Agriculture	3
NRE 403	Agricultural Entomology	4
Major-Specific E	lectives 1	4-16

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In consultation with the NRE/COS advisors, students will select electives from Marshall University offerings best suited to prepare students for future endeavors. Students interested in specific fields or professional credentials, such as nutrient management, outreach and education, ecotourism, agriculture commodities broker, soil science, soil health, food security, livestock production, or crop production, should speak with their NRE faculty advisor to discuss electives. The student will select electives to reach 120 credit hours required for graduation. Additional electives may be used to satisfy general education requirements (e.g., writing intensive). A minimum of 40 hours must be 300-400 level courses. Below is a list of courses that could be considered; however, the list is not exhaustive and other courses can be considered based on consultation between the student and NRE/COS advisors.

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	BSC 302	Principles of Microbiology
	BSC 320	Principles of Ecology
	BSC 322	Principles Cell Biology
	BSC 324	Principles of Genetics
	BSC 401	Ichthyology
	BSC 408	Ornithology
	BSC 409	Mammalogy
	BSC 416	Plant Taxonomy
	BSC 420	Plant Physiology
	BSC 422	Animal Physiology
	BSC 424	Animal Parasitology
	BSC 430	Plant Ecology
	BSC 445	Microbial Ecology
	CI 248	Intro to Science Elem Ed
	DTS 202	Introductory Foods
	DTS 210	Nutrition
	DTS 301	FS Safety & Systems Mgt I
	DTS 302	FS Safety & Sys Mgt II
	DTS 410	Cross Cultural Foods
	EDF 201	Ed Psych Developing Learner
	GEO 101 💎	Physical Geography (CT)
	GEO 222 💎	Global Environment Issues (CT)
	GLY 200 💎	The Dynamic Earth
	GLY 210L 💎	Earth Materials Lab
	HST 390	Food in World History
	GLY 314	Mineralogy
	GLY 451	Principles Geomorphology
	GLY 456	Environmental Geology
	GLY 455	Hydrogeology
	GLY 455L	Hydrogeology Laboratory
	HST 392	Food and the City Since 1800
	MKT 231	Principles of Selling
	MKT 340	MKT Concepts and Applications
	NRE 400	Soil Fertility/Plant Nutrition
	NRE 423	GIS and Data Systems
	NRE 425	Water Policy and Regulations
	NRRM 231	Nature Study
	NRRM 310	Environmental Interpretation
	NRRM 311	Intro to Environmental Educ

NRRM 360	Tourism Planning & Management
NRRM 362	Ecotourism: Admin and Mgmt

Major Information

- Capstone Experience: It is the responsibility of each student to consult his/her advisor regarding details of meeting the capstone requirement. The Capstone for this degree is completed in the summer.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Minimum 2.0 overall and MU and in all NRRM coursework required for graduation.
- Minimum of 120 hours (40 upper level) required for graduation.
- General Education Course

► Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Semester Plan

First Year

Core II Fine Arts

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First Semester		Credit Hours
CIT 150	Spreadsheet and Database Apps	3
NRE 120 💎	Discussions in Envrion Science	3
MTH 140 💎	Applied Calculus	3
ENG 101 💎	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	16
Second Semeste	er	
ENG 201 💎	Advanced Composition	3
CMM 103 🔫	Fund Speech-Communication	3
BSC 120 🔫	Principles of Biology I	3
BSC 120L 💎	Principles of Biology I Lab	1
GEO 222 💎	Global Environment Issues (CT) (WI)	3
NRE 220 💎	Human Dimensions of Nat Res	3
	Credit Hours	16
Second Year		
First Semester		
CHM 211 💎	Principles of Chemistry I	3
CHM 217 🔫	Principles of Chem Lab I	2
Core II Humanitie	es (WI)	3
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	Total Credit Hours	123
	Credit Hours	17
Major Specific E	lective	3
Major Specific Elective		4
Writing Intensiv	е	3
NRE 401	Horticulture	4
NRE 470 💎 or NRE 491	ES Internship or ES Senior Capstone	3
Second Semest	ter	
	Credit Hours	13
Major Specific E	lective	4
Major Specific E	lective	3
ENT 250	Intro to Entrepreneurship	3
First Semester NRE 402	Sustainable Agriculture	3
Fourth Year	Credit Hours	14
Major Specific E		4
MGT 320	Principles of Management	3
NRE 322	Assess I: Terrestrial Systems	4
NRE 490	ES/NRRM Capstone Prep	3
Second Semest		
	Credit Hours	17
Major Specific E	lective	4
NRE 403	Agricultural Entomology	4
NRE 301	Principles of Soil Science Lab	2
NRE 300	Principles of Soil Science	3
NRE 323	Assessment II: Aquatic Ecology	4
Third Year First Semester		
11112 302	Credit Hours	16
NRE 302	Animal Production	3
NRRM 200	Analytical Methods: Statistics	4
CHM 218 💎	Principles of Chem Lab II	2
CHM 212 💎	Principles Chemistry II	
BSC 121L 💎	Prin of Biology II Lab	1
BSC 121 💎	Principles of Biology II	3
Second Semest		14
NRE 200	Introduction to Agriculture Credit Hours	3 14
NIDE 200	to the almost and to American to he	2