

# PLANT AND SOIL SCIENCES: SOIL AND WATER RESOURCES, BSAG

**Requirements for Students Matriculating in or before Academic Year 2022-2023.** Learn more about University Academic Regulation 3.1 (<http://catalog.okstate.edu/university-academic-regulations/#matriculation>).

**Minimum Overall Grade Point Average: 2.00**

**Total Hours: 120**

Code	Title	Hours
<b>General Education Requirements</b>		
<i>English Composition</i>		
See Academic Regulation 3.5 ( <a href="http://catalog.okstate.edu/university-academic-regulations/#english-composition/">http://catalog.okstate.edu/university-academic-regulations/#english-composition/</a> )		
ENGL 1113 or ENGL 1313	Composition I Critical Analysis and Writing I	3
Select one of the following:		3
ENGL 1213	Composition II	
ENGL 1413	Critical Analysis and Writing II	
ENGL 3323	Technical Writing	
<i>American History &amp; Government</i>		
Select one of the following:		3
HIST 1103	Survey of American History	
HIST 1483	American History to 1865 (H)	
HIST 1493	American History Since 1865 (DH)	
POLS 1113	American Government	3
<i>Analytical &amp; Quantitative Thought (A)</i>		
STAT 2013	Elementary Statistics (A) <sup>1</sup>	3
<i>Humanities (H)</i>		
Courses designated (H)		6
<i>Natural Sciences (N)</i>		
Must include one Laboratory Science (L) course		
CHEM 1314 or CHEM 1215	Chemistry I (LN) <sup>1</sup> Chemical Principles I (LN)	4
Course designated (N)		3
<i>Social &amp; Behavioral Sciences (S)</i>		
AGEC 1113	Introduction to Agricultural Economics (S) <sup>1</sup>	3
<i>Additional General Education</i>		
Courses designated (A), (H), (N), or (S)		9
<b>Hours Subtotal</b>		<b>40</b>
<b>Diversity (D) &amp; International Dimension (I)</b>		
May be completed in any part of the degree plan		
Select at least one Diversity (D) course		
Select at least one International Dimension (I) course		
<b>College Requirements</b>		
AG 1011	First Year Seminar	1
ENVR 1113 or NREM 2013	Elements of Environmental Science (N) Ecology of Natural Resources	3
<b>Departmental Requirements</b>		

Select one of the following:		3
AGCM 3103	Written Communications in Agricultural Sciences and Natural Resources	
BCOM 3113	Written Communication	
BCOM 3443	Business Communication for International Students	
ENGL 3323	Technical Writing <sup>2</sup>	
Select one of the following:		3
AGCM 3203	Oral Communications in Agricultural Sciences & Natural Resources (S)	
SPCH 2713	Introduction to Speech Communication (S)	
SPCH 3733	Elements of Persuasion (S) <sup>3</sup>	
PLNT 1101	Orientation to Plant and Soil Sciences	1
PLNT 1213	Introduction to Plant and Soil Systems	3
PLNT 2041	Career Development in Plant and Soil Sciences	1
PLNT 4033	Applied Agricultural Meteorology	3
PLNT 4080	Professional Internship	3
or PLNT 4990	Senior Thesis in Plant and Soil Sciences	
PLNT 4571	Professional Preparation in Plant and Soil Sciences	1
SOIL 2124	Fundamentals of Soil Science (N)	4
SOIL 4234	Soil Nutrient Management	4
Select one of the following:		3
MATH 1513	College Algebra (A) <sup>4</sup>	
MATH 2103	Business Calculus (A)	
MATH 2144	Calculus I (A)	
BIOL 1113 & BIOL 1111	Introductory Biology (N) and Introductory Biology Laboratory (LN)	4
or BIOL 1114	Introductory Biology (LN)	
CHEM 1515	Chemistry II (LN) <sup>5</sup>	5
or CHEM 1225	Chemical Principles II (LN)	
Select one of the following:		5
CHEM 3013 & CHEM 3012	Survey of Organic Chemistry and Survey of Organic Chemistry Laboratory	
BIOC 2344	Chemistry and Applications of Biomolecules	
PHYS 1114 or PHYS 1014	College Physics I (LN) Descriptive Physics (N)	
<b>Hours Subtotal</b>		<b>47</b>
<b>Major Requirements</b>		
Core Courses		
SOIL 3433	Soil Genesis, Morphology, and Classification	3
SOIL 4363	Environmental Soil Science	3
SOIL 4483	Soil Microbiology	3
SOIL 4683	Soil, Water, and Weather	3
SOIL 4893	Environmental Soil Chemistry	3
GEOG 2344	Digital Tools for Environmental Problem-Solving (LN)	4
GEO 1114	Physical Geology (LN)	4
GEO 4453	Hydrogeology	3
or NREM 4443	Watershed Hydrology and Water Quality	

<i>Related Courses</i>	
Select from the following:	7
GEOL 1224	Evolution of the Earth (LN)
GEOL 2254	Practical Mineralogy
Upper-division GEOL courses	
SOIL 4213	Precision Agriculture
SOIL 4463	Soil and Water Conservation
SOIL 4470	Problems and Special Study
PLNT 2013	Applied Plant Science
PLNT 4470	Problems and Special Study
Upper-division PLNT courses	
NREM 3012	Applied Ecology Laboratory
NREM 3013	Applied Ecology and Conservation
NREM 3613	Principles of Rangeland Management
NREM 4043	Natural Resource Administration and Policy
GEOG 3023	Climatology (N)
GEOG 3033	Meteorology (N)
GEOG 3153	Conservation of Natural Resources (S)
GEOG 4333	Remote Sensing
AGEC 3503	Natural Resource Economics
AGEC 3703	Issues in Agricultural Policy
AGEC 3713	Agricultural Law
Upper-division HORT and PLP courses that will count toward chosen minor	
<b>Hours Subtotal</b>	<b>33</b>
<b>Electives</b>	
Select 0 hours or hours to complete required total for degree	0
<b>Total Hours</b>	<b>120</b>

1

College & Departmental requirements that may be used to meet General Education requirements.

2

If ENGL 3323 Technical Writing is used to satisfy ENGL 1213 Composition II above; hours in this block are reduced by 3.

3

If used as (S) course above, hours in this block reduced by 3.

4

If used as (A) course above, hours in this block reduced by 3.

5

If used as (N) course above, hours in this block reduced by 5.

## Other Requirements

- A minimum of 40 semester credit hours and 100 grade points must be earned in courses numbered 3000 or above.
- A 2.00 GPA or higher in upper-division hours.

## Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.

- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2028.