

# Minor in Agronomy

For students interested in agronomy who plan to pursue careers in agriculture. The minor provides an opportunity for students to understand the science of food production, including crop management, soil management, pest management, and plant breeding and biotechnology.

Contact your major advisor or Susan Gruber ([grubers@msu.edu](mailto:grubers@msu.edu)) to add this program to your primary degree. For course questions, contact Dr. Karen Renner ([renner@msu.edu](mailto:renner@msu.edu)). **16 Credits are required to complete the Minor.**

<b>Required Courses:</b>			
<b>Title</b>	<b>Credits</b>	<b>Prerequisite(s)</b>	<b>Semester(s)</b>
CSS 101 Intro to Crop Science	3		Fall T/Th 8:30 – 9:50 a.m. OR online ASYNCH Spring Online ASYNCH
CSS 101L Intro to Crop Science Lab	1	CSS 101 or concurrently	Fall 4 time options
CSS 210 Fundamentals of Soil Science	3		Fall MWF 10:20 – 11:10 Spring MWF 9:10 – 10
CSS 488 Integrated Cropping Systems	3	CSS 101 and CSS 210	Spring senior year T/Th 10:20 – 11:40 a.m.
<b>Complete an additional 6 credits from the following:</b>			
<b>Title</b>	<b>Credits</b>	<b>Prerequisite(s)</b>	<b>Semester(s)</b>
CSS 201 Forage Crops	3		Fall T/Th 9:10 – 10 + Wed 3-5 pm
CSS 212 Advanced Crop Production	2	CSS 101	Fall T/Th 3-3:50 p.m.
CSS 222 New Horizons in Biotechnology	2		Fall Online ASYNCH
CSS 226L Weed Science lab	1	CSS 326 concurrently	Fall 4 time options
CSS 326 Weed Science	2	CSS 101 or CSS 232 or HRT 203	Fall M/W 11:30-12:20
CSS 360 Soil Biology	3	CSS 210	Fall W 12:40 – 2pm + M 12:40 – 2:30 or 3-5 p.m.
CSS 420 Cover Crops in Agroecosystems	3	CSS 101 or HRT 251/ 341 and CSS 210	Fall F 9:10 – noon
CSS 442 Agroecology	3	juniors and seniors	Fall Hybrid Th 12:40- 2:30 pm
CSS 467 Bioenergy Fuel Crops	3	MTH 103 or higher. CSS 101 and CSS 210 recommended	Fall T/Th 8:30 –9:50 a.m.
CSS 470 Soil Resources	3	CSS 210	Fall M/W 8-8:50 a.m. + Fri 12:40-2:30 p.m.
CSS 135 Crop Scouting and Field Investigation	3	CSS 101 or HRT 203	Spring T/Th 12:40 – 2:30 p.m. 10 weeks
CSS 151 Seed Grain and Quality	2		Spring T/Th 3-4:50 p.m. 10 weeks
CSS/HRT 251 Organic Farming	3		Spring T/Th 12:40 – 2 p.m.
CSS 330 Soil Chemistry	2	CSS 210	Spring M/W 8-8:50 a.m. + Th 3-4:50 p.m.
CSS 340 Applied Soil Physics	2	CSS 210	Spring M/W 12:40 – 2:30 p.m.
CSS 350 Plant Genetics	3	PLB 105 or BS 161	Spring MWF 10:20- 11:10 a.m. + 1 hour
CSS 441 Plant Breeding and Biotechnology	3		Spring Online ASYNCH