WWCC is now offering a Bachelor of Applied Science in Agricultural Systems. A Bachelor of Applied Science (BAS) degree expands on the knowledge gained in a two-year applied associate degree program by using higher order thinking skills gained in upper division coursework to prepare the student for today's demanding workforce. This unique degree offers hands-on career training. Employers actively seek graduates of BAS programs because they have gained the necessary knowledge and applicable skills to immediately enter the workforce with minimal to no additional training.

Agricultural systems science is an interdisciplinary science, which systematically analyzes the interactions between the natural, human, climatic, political and economic components of the agroecosystem. The Agricultural Systems degree at WWCC provides successful students with a broad and complete understanding of these complex interactions. Students will learn to adjust current pathways as well as identify new pathways to minimize the many potential negative effects on environmental, societal and human health.

In addition to classes in foundational agricultural knowledge, like that of basic soil, plant and animal science, students will be engaged in topics such as agroecology, policy, technology and sustainability to develop their critical thinking skills. This perspective is essential for meeting the increasing demands placed on today's agricultural systems. The Agricultural Systems degree prepares students to make an active contribution to the agricultural industry through hands-on exposure to diverse experiences and perspectives grounded in applied science and reality. Students who achieve a Bachelor of Applied Science degree in Agricultural Systems may also continue their education and enroll in graduate programs.
Entrance Requirements

Applicants for the Bachelor of Applied Science in Agricultural Systems must have:

☐ Achieved at least an associate-level degree

☐ Completed the following courses prior to acceptance in the program:
  • ENGL& 101 English Composition I
  • AGPR 201 Basic Soil Science
  • At least one of the following plant science courses:
    ◦ AGPR 113 Cultivated Plants
    ◦ AGPR 114 Plant Physiology
    ◦ AGPR 215 Field Crop Production
    ◦ BIOL& 213 Plant Biology
  • At least one of the following economics courses:
    ◦ AGRI 201/ECON& 201 Microeconomics
    ◦ AGRI 221 Introduction to Food and Agricultural Markets
    ◦ AGRI 222/POLS 222 Agricultural and Water Policy

Note: Substitutions may apply for applicants with degrees from other colleges. Contact the Baccalaureate Navigator for assistance or questions regarding the entrance requirements.

Students must complete the following courses with a C or better:

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>60 Credits</th>
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<tbody>
<tr>
<td><strong>Communications 15 Credits</strong></td>
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<tr>
<td>☐ ENGL&amp; 101 English Composition I</td>
<td>................. 5</td>
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<tr>
<td>☐ ENGL&amp; 235 Technical Writing</td>
<td>................. 5</td>
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<tr>
<td>☐ CMST&amp; 210 or CMST&amp; 220 Interpersonal Communications or Public Speaking</td>
<td>................. 5</td>
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<tr>
<td><strong>Quantitative Skills 5 Credits</strong></td>
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<tr>
<td>☐ MATH&amp; 146 Introduction to Statistics</td>
<td>........................................... 5</td>
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<tr>
<td><strong>Humanities 10 Credits</strong></td>
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<tr>
<td>☐ PHIL 131 Introduction to Ethics</td>
<td>........................................... 5</td>
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<tr>
<td>☐ PHIL 330 Professional Ethics</td>
<td>........................................... 5</td>
</tr>
<tr>
<td><strong>Social Science 15 Credits</strong></td>
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<tr>
<td>☐ AGRI 201 or ECON&amp; 201 Microeconomics in Agriculture or Microeconomics</td>
<td>................. 5</td>
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<tr>
<td>☐ HIST 105 or SOC&amp; 101 Roots of World Issues or Introduction to Sociology</td>
<td>................. 5</td>
</tr>
<tr>
<td>☐ AGRI 222/POLS 222 Agricultural and Water Policy</td>
<td>................. 5</td>
</tr>
<tr>
<td><strong>Natural Science 15 Credits</strong></td>
<td></td>
</tr>
<tr>
<td>☐ AGPR 201 Basic Soil Science</td>
<td>........................................... 5</td>
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<tr>
<td>☐ BIOL 130 General Ecology</td>
<td>........................................... 5</td>
</tr>
<tr>
<td>☐ GEOG 211 Introduction to Climate and Climate Change</td>
<td>........................................... 5</td>
</tr>
</tbody>
</table>
Students must complete the following courses with a C+ or better:

### Lower Division Major Course Requirements 66 Credits

- AGPR 113 or AGPR 215 Cultivated Plants or Field Crop Production ........................................... 5
- AGPR 114 or BIOL& 213 Plant Physiology or Plant Biology ........................................... 5
- AGPR 120 Agricultural Chemistry ........................................................................ 5
- AGPR 140 Agriculture Safety and Pesticides .............................................................. 5
- AGPR 202 Soil Fertility and Management .............................................................. 5
- AGPR 224 Pasture and Range Management .............................................................. 5
- AGPR 230 Plant Diseases and Insects ........................................................................ 5
- AGRI 221 Introduction to Food and Agricultural Markets ........................................... 5
- ENT 150 Introduction to GIS ........................................................................ 3
- ENT 151 Advanced GIS .................................................................................... 3
- ENT 152 Practical Agricultural Applications of GIS ................................................ 3
- EST 202 Biochemical Conversion ........................................................................ 5
- WTM 112 Irrigation Principles ........................................................................ 5
- WTM 135 Issues in Agriculture and Natural Resources ........................................ 5
- WTM 220 Drip Irrigation .................................................................................... 2

1 WTM 190, CHEM& 121 or CHEM& 161 can be substituted for AGPR 120.
2 AGPR 112, AGPR 115 or BIOL& 212 can be substituted for AGPR 224.

### Upper Division Major Course Requirements 62-65 Credits

- BUS 310 Foundations of Leadership ........................................................................ 5
- BUS 360 Project Management .................................................................................. 5
- BUS 420 Business Strategy and Sustainability ......................................................... 5
- PHIL 330 Professional Ethics .................................................................................. 5
- SAS 310 Principles of Sustainability .......................................................................... 5
- SAS 330 Soil Ecology and Biogeochemistry .............................................................. 5
- SAS 340 Integrated Pest Management ....................................................................... 5
- SAS 420 The Political Ecology of Agriculture and Natural Resources .................. 5
- SAS 440 Advanced Cropping Systems I ................................................................. 5
- SAS 450 Advanced Cropping Systems II ................................................................. 5
- SAS 470 Food Systems Science ................................................................................ 5
- SAS 495 Agricultural Systems Capstone .................................................................... 7-10

**Note:** Students may begin upper division coursework in the fall or winter quarter. Part-time options are available. Please contact the Baccalaureate Navigator for details.

Walla Walla Community College does not discriminate on the basis of race, color, creed, national origin, sex, sexual orientation, including gender expression/identity, genetic information, marital status, age, the presence of any sensory, mental, or physical disability; the use of a trained guide dog or service animal by a person with a disability; or, status as a Vietnam and/or disabled veteran, National Guard member or reservist.
Upon completion of this program, successful students will be able to:

- Apply and communicate key concepts in human ecology and natural resources management to agriculture systems regionally, nationally and globally,
- Critically examine complex agricultural systems using a range of frameworks and tools,
- Identify and frame constraints and opportunities for future agriculture systems,
- Analyze agricultural systems, integrating societal, environmental and economic perspectives,
- Investigate and develop sound research design, apply current research methods and perspectives, and experiment with new approaches to scientific inquiry,
- Work in collaborative teams, present information for varied contexts and audiences, negotiate approaches and viewpoints, and take leadership roles on important issues.

Examples of Career Opportunities

- Agricultural Cooperative Education
- Agricultural Insurance Sales
- Agricultural Management
- Agricultural Research
- Agricultural Technology Sales
- Crop and Soil Science
- Environmental Protection and Restoration
- Farm Services
- International Agricultural and Food Systems Development
- Precision Agriculture
- State and Federal Agencies