

## Agriculture: Sustainable Agriculture and Resource Systems

- **General Agriculture Pathways**, page 46
- **Sustainable and Organic Agriculture Pathways**, page 47
- **Horticulture and Tree Fruit Production Pathways**, page 48
- **Agriculture Technology (AgriTechnologies) Pathways**, page 49
- **AgriBusiness Pathway**, page 50

Within the sustainable agriculture and resource systems program, WVC offers a non-transfer associate of technical science (ATS) in several pathways and associate in applied science-transfer (AAS-T)\*\* degrees in sustainable and organic agriculture, horticulture and tree fruit production, general agriculture and agritechnologies. Interested students should work closely with agriculture advisers in order to plan their studies to reach their individual goals in an expeditious manner.

- The ATS degree prepares students for employment in agriculture and related fields. The pathways are general agriculture, agribusiness, horticulture and tree fruit production, sustainable and organic agriculture, and agriculture technology.
- WVC has articulations with the Washington State University College of Agricultural, Human, and Natural Resources Sciences (CAHNRS) that allows WVC students to transfer to WSU with an AAS-T\*\* in sustainable and organic agriculture, horticulture and tree fruit production, general agriculture, or agritechnologies.
- The Hispanic Orchard Employee Education Program (HOEEP) offers several certificate programs to increase the professional abilities of agricultural employees and their contributions to the operations of their respective employment settings. The programs are taught in Spanish, but all students should have basic English conversational skills and some ability to read and write in Spanish when entering these programs. Each program includes applied English, mathematics and computer applications instruction and a civics component which covers everyday life situations. These programs are:
  - HOEEP I Basic Horticulture: introduces tree fruit production and management practices
  - HOEEP II Advanced Horticulture: builds on the introductory class, focusing on a production system approach
  - HOEEP III Integrated Pest Management Technician: prepares students as pest management scouts and assistance for apple, pear and cherry IPM projects
  - HOEEP IV Farm Management: introduces the principles and practices of farm management
  - HOEEP V Introduction to Viticulture: introduces the production and management of wine and juice grape vineyards
  - HOEEP VI Advanced Viticulture: builds on the introductory class, focusing on a production system approach
  - HOEEP VII Integrated Pest Management Technician and Vineyard Management: prepares Latino vineyard employees as pest management scouts and introduces them to basic vineyard economies and management.

Core program courses may have prerequisite requirements. English and mathematics courses require qualifying assessment scores or acceptable preparatory coursework in those subjects. See the course descriptions for details.

*\*\*Associate in Applied Science-Transfer Degree: the AAS-T is built upon the the technical courses required for job preparation but also includes a college-level general education component, common in structure for all such degrees. The distinguishing characteristic of the AAS-T is a minimum of 20 credits of general education courses drawn from the same list as those taken by students completing the Direct Transfer Agreement (DTA) associate degree or the Associate in Science-Transfer (AS-T) degree (that is, the courses generally accepted in transfer). AAS-T courses are designed for the dual purpose of immediate employment and as preparation for the junior year in a bachelor's degree commonly described as the bachelor of applied science (BAS). The AAS-T degree generally will not be accepted in transfer in preparation for bachelor of arts or bachelor of science degrees, although the general education component of the degree will be accepted in transfer. (State Board for Community and Technical Colleges)*

## Pathway for General Agriculture

Required Courses: Associate of Technical Science  
non-transfer degree

Introductory Courses		Credits
AGRI 101	Intro. to Agriculture <i>or</i>	
AGRI 108	Intro. Horticulture .....	3
AGRI 161	Intro. Plant Science .....	2
AGRI 162	Intro. Soils .....	3
Core Courses		
AGRI 254	Integrated Pest Management .....	5
AGRI 261	Plant Science.....	5
AGRI 263	Soils.....	5
Emphasis Courses		
200-Level AGRI Courses .....		20
AGRI 116, 117, 118: Ag. Lab .....		3
Approved Electives (may include up to 10 credits in Cooperative Work Experience) .....		20
GER Courses		
OCED 102*	Writing in the Workplace/ Technical English .....	5
MATH 100T	Technical Math or higher .....	5
BUS& 101	Intro. to Business .....	5
BIOL& 100	Survey of Biology .....	5
BCT 105	Computer Applications .....	5
CMST&220	Public Speaking.....	5
<b>Total Credits for Degree</b>		<b>96</b>

Required Courses: Associate in Applied Science-Transfer  
degree\*\*

Introductory Courses		Credits
AGRI 101	Intro. to Agriculture <i>or</i>	
AGRI 108	Intro. Horticulture .....	3
AGRI 161	Intro. Plant Science .....	2
AGRI 162	Intro. Soils .....	3
AGRI 130	Agriculture Technologies.....	3
Core Courses		
AGRI 254	Integrated Pest Management .....	5
AGRI 261	Plant Science.....	5
AGRI 263	Soils.....	5
Elective Courses		
200-level AGRI Electives .....		40
GER Courses		
ENGL& 101*	Composition: General .....	5
MATH& 107*	Math in Society .....	5
	Natural Sciences (CHEM& 121*).....	5
	Social Sciences (ECON& 201).....	5
	Humanities (CMST& 220).....	5
<b>Total Credits for Degree</b>		<b>91</b>

Required Courses: Associate in Applied Science-Transfer Degree with WSU\*\*

This degree transfers to the Washington State University College of Agricultural, Human, and Natural Resource Sciences (CAHNRS) Bachelor of Science in Agriculture and Food Systems (AFS), Agricultural Education major.

Introductory Courses		Credits	GER Courses		Credits
AGRI 101	Intro. to Agriculture .....	3	ENGL&101*	Composition: General .....	5
AGRI 161	Intro. Plant Science .....	2	ENGL 201	Composition: Advanced Essay.....	5
AGRI 162	Intro. Soils .....	3	MATH&107*	Math in Society .....	5
Core Classes			MATH&146*	Intro. to Stats.....	5
AGRI 254	Integrated Pest Management .....	5	CMST&220	Public Speaking.....	5
AGRI 261	Plant Science.....	5	HUM& 101	Intro. to Humanities.....	5
AGRI 263	Soils.....	5	ART& 100	Art Appreciation.....	5
	Approved AGRI 200-level electives .....	10	CHEM&121*	Intro. to Chemistry .....	5
			BIOL& 211	Majors Cellular .....	5
			CHEM&131	Intro. to Organic/Biochemistry.....	5
			BIOL 216	Plant Classification.....	5
			ECON&201	Micro Economics.....	5
<b>Total Credits for Degree</b>				<b>93</b>	

\*Placement score required

\*\*See Associate in Applied Science-Transfer Degree Definition,  
page 32.

## Pathways for Sustainable and Organic Agriculture

### Required Courses: Associate of Technical Science non-transfer degree

Introductory Courses		Credits
AGRI 101	Intro. to Agriculture <i>or</i>	
AGRI 108	Intro. Horticulture .....	3
AGRI 161	Intro. Plant Science .....	2
AGRI 162	Intro. Soils .....	3
<b>Core Courses</b>		
AGRI 254	Integrated Pest Management .....	5
AGRI 261	Plant Science.....	5
AGRI 263	Soils.....	5
<b>Emphasis Courses</b>		
AGRI 268	Organic Ag. Production .....	5
AGRI 269	Organic Plant Nutrition.....	5
AGRI 255	Field Based Integrated Pest Mgmt .....	5
AGRI 289	Sustainable Ag. and Food.....	5
AGRI 116, 117, 118:	Ag. Lab .....	3
Approved Electives (may include up to 10 credits in Cooperative Work Experience) .....		
		20
<b>GER Courses</b>		
OCED102*	Writing in the Workplace/ Technical English .....	5
MATH 100T*	Technical Math or higher .....	5
BUS& 101	Intro. to Business .....	5
BIOL& 100	Survey of Biology .....	5
BCT 105	Computer Applications .....	5
CMST& 220	Public Speaking.....	5
<b>Total Credits for Degree</b>		<b>96</b>

### Required Courses: Associate in Applied Science-Transfer Degree\*\*

Introductory Courses		Credits
AGRI 101	Intro. to Agriculture <i>or</i>	
AGRI 108	Intro. Horticulture .....	3
AGRI 161	Intro. Plant Science .....	2
AGRI 162	Intro. Soils .....	3
<b>Core Courses</b>		
AGRI 254	Integrated Pest Management .....	5
AGRI 261	Plant Science.....	5
AGRI 263	Soils.....	5
<b>Elective Courses</b>		
AGRI 268	Organic Ag. Production .....	5
AGRI 269	Organic Plant Nutrition.....	5
AGRI 255	Field Based Integrated Pest Mgmt .....	5
AGRI 289	Sustainable Ag. and Food.....	5
		200-level AGRI electives.....
		25
<b>GER Courses</b>		
ENGL& 101*	Composition: General .....	5
MATH& 107*	Math in Society .....	5
		Natural Sciences (CHEM& 121*).....
		5
		Social Sciences (ECON& 201).....
		5
		Humanities (CMST& 220).....
		5
<b>Total Credits for Degree</b>		<b>93</b>

### Required Courses: Associate in Applied Science-Transfer Degree with WSU\*\*

This degree transfers to the Washington State University College of Agricultural, Human, and Natural Resource Sciences (CAHNRS) Bachelor of Science in Agriculture and Food Systems (AFS) major.

Introductory Courses		Credits	GER Courses		Credits
AGRI 161	Intro. Plant Science .....	2	ENGL&101*	Composition: General .....	5
AGRI 162	Intro. Soils .....	3	ENGL 201	Composition: Advanced Essay.....	5
<b>Core Courses</b>			MATH&107*	Math in Society .....	5
AGRI 254	Integrated Pest Management .....	5	MATH&146*	Intro. Statistics.....	5
AGRI 261	Plant Science.....	5	CMST&220	Public Speaking.....	5
AGRI 263	Soils.....	5	HUM& 101	Intro. to Humanities.....	5
<b>Elective Courses</b>			ART& 100	Art Appreciation.....	5
AGRI 268	Organic Ag. Production .....	5	CHEM&121*	Intro. to Chemistry .....	5
AGRI 269	Organic Plant Nutrition.....	5	BIOL& 211	Majors Cellular .....	5
AGRI 255	Field Based Integrated Pest Mgmt .....	5	CHEM&131	Intro. to Organic/Biochemistry .....	5
			BIOL 216	Plant Classification.....	5
			ECON&201	Micro Economics.....	5
<b>Total Credits for Degree</b>					<b>98</b>

\*Placement score required

\*\*See Associate in Applied Science-Transfer Degree Definition,  
page 32.

Students should work closely with an agriculture adviser  
to plan this program.

## Pathway for Horticulture and Tree Fruit Production

### Required Courses: Associate of Technical Science non-transfer degree

Introductory Courses		Credits
AGRI 101	Intro. to Agriculture <i>or</i>	
AGRI 108	Intro. Horticulture .....	3
AGRI 161	Intro. Plant Science .....	2
AGRI 162	Intro. Soils .....	3
<b>Core Courses</b>		
AGRI 254	Integrated Pest Management .....	5
AGRI 261	Plant Science.....	5
AGRI 263	Soils.....	5
<b>Emphasis Courses</b>		
AGRI 262	Intro. Pomology .....	5
AGRI 264	Post Harvest Tech.....	5
AGRI 265	Crop Growth & Develop.....	5
AGRI 266	Crop Production Management .....	5
AGRI 116, 117, 118:	Ag. Lab .....	3
Approved Electives (may include up to 10 credits in Cooperative Work Experience) .....		20
<b>GER Courses</b>		
OCED102*	Writing in the Workplace/ Technical English .....	5
MATH 100T*	Technical Math or higher .....	5
BUS& 101	Intro. to Business .....	5
BIOL& 100	Survey of Biology .....	5
BCT 105	Computer Applications .....	5
CMST& 220	Public Speaking.....	5
<b>Total Credits for Degree</b>		<b>96</b>

### Required Courses: Associate in Applied Science-Transfer Degree\*\*

Introductory Courses		Credits
AGRI 101	Intro. to Agriculture <i>or</i>	
AGRI 108	Intro. Horticulture .....	3
AGRI 161	Intro. Plant Science .....	2
AGRI 162	Intro. Soils .....	3
<b>Core Courses</b>		
AGRI 254	Integrated Pest Management .....	5
AGRI 261	Plant Science.....	5
AGRI 263	Soils.....	5
<b>Elective Courses</b>		
AGRI 255	Field Integrated Pest Management .....	5
AGRI 262	Intro. Pomology .....	5
AGRI 264	Post Harvest Tech.....	5
AGRI 265	Crop Growth and Development .....	5
AGRI 266	Crop Production Management .....	5
200-level AGRI electives.....		20
<b>GER Courses</b>		
ENGL& 101*	Composition: General .....	5
MATH& 107*	Math in Society .....	5
	Natural Sciences (CHEM& 121*).....	5
	Social Sciences (ECON& 201).....	5
	Humanities (CMST& 220).....	5
<b>Total Credits for Degree</b>		<b>93</b>

### Required Courses: Associate in Applied Science-Transfer Degree with WSU\*\*

This degree transfers to the Washington State University College of Agricultural, Human, and Natural Resource Sciences (CAHNRS) Bachelor of Science in Integrated Plant Sciences (IPS), Fruit and Vegetable Management major.

Introductory Courses		Credits	GER Courses		Credits
AGRI 161	Intro. Plant Science .....	2	ENGL&101*	Composition: General .....	5
AGRI 162	Intro. Soils .....	3	ENGL 201	Composition: Advanced Essay.....	5
<b>Core Courses</b>			MATH&107*	Math in Society .....	5
AGRI 254	Integrated Pest Management .....	5	MATH&146*	Intro. Statistics.....	5
AGRI 261	Plant Science.....	5	CMST&220	Public Speaking.....	5
AGRI 263	Soils.....	5	HUM& 101	Intro. to Humanities.....	5
<b>Elective Courses</b>			ART& 100	Art Appreciation.....	5
AGRI 262	Intro. Pomology .....	5	CHEM&121*	Intro. to Chemistry .....	5
AGRI 266	Crop Production Management .....	5	BIOL& 211	Majors Cellular .....	5
AGRI 255	Field Based Integrated Pest Mgmt .....	5	CHEM&131	Intro. to Organic/Biochemistry .....	5
AGRI 264	Post Harvest Technology .....	5	BIOL 216	Plant Classification.....	5
AGRI 265	Crop Growth & Development.....	5	ECON&201	Micro Economics.....	5
<b>Total Credits for Degree</b>				<b>105</b>	

\*Placement score required

\*\*See Associate in Applied Science-Transfer Degree Definition,  
page 32.

Students should work closely with an agriculture adviser  
to plan this program.

## Pathway for Agriculture Technology (AgriTechnologies)

### Required Course Sequence: Associate in Technical Science Degree Pathway

Offered at Wenatchee campus

Tech Prep and Intro. Course Requirements		Credits
AGRI 105	Agriculture Mechanics <i>or</i>	
WELD 128	Basic Welding .....	3
AGRI 161	Intro. Plant Science .....	2
AGRI 162	Intro. Soils <i>or</i>	
AGRI 130	Agriculture Technologies .....	3

### Core Courses to be chosen from:

Agriculture (AGRI), Automotive Technology (AUTO), Electricity (ELEC), Electronics (ELTRO), Environmental Systems & Refrigeration Technology (ESRT), Industrial Technology (INDT), Welding (WELD)..... 15

### Elective Courses

Approved 200-level electives..... 35

### Courses chosen based on student's emphasis or pathway:

Approved 200-level courses in pathway..... 5

OCED 102*	Writing in the Workplace/ Technical English or higher .....	5
MATH 100T*	Technical Math or higher .....	5
OCED 101*	Technical Reading .....	5
BCT 105	Computer Applications .....	5
BIOL& 100	Survey of Biology .....	5
BUS& 101	Intro. to Business .....	5
CMST& 220	Public Speaking.....	5
AGRI 116, 117, 118: Ag. Lab .....		3

**Total Credits for Degree 96**

### Required Courses: Associate in Applied Science-Transfer Degree\*\*

#### Introductory Courses

		Credits
AGRI 101	Intro. to Agriculture <i>or</i>	
AGRI 130	Agriculture Technologies <i>or</i>	
AGRI 105	Agriculture Mechanics <i>or</i>	
WELD128	Basic Welding .....	3
AGRI 161	Intro. Plant Science .....	2
AGRI 162	Intro. Soils .....	3

#### Core Courses

AGRI 254	Integrated Pest Management .....	5
AGRI 261	Plant Science.....	5
AGRI 263	Soils.....	5

#### Elective Courses

Approved 200-level AGRI electives ..... 45

#### GER Courses

ENGL& 101*	Composition: General .....	5
MATH& 107*	Math in Society .....	5
	Natural Sciences (CHEM& 121*).....	5
	Social Sciences (ECON& 201).....	5
	Humanities (CMST& 220).....	5

**Total Credits for Degree 93**

### Required Courses: Associate in Applied Science-Transfer Degree with WSU\*\*

This degree transfers to the Washington State University College of Agricultural, Human, and Natural Resource Sciences (CAHNRS) Bachelor of Science in Agricultural & Food Systems, Agricultural Technology & Production Management.

Introductory Courses		Credits	GER Courses		Credits
AGRI 101	Intro. to Agriculture <i>or</i>		ENGL&101*	Composition: General	5
AGRI 130	Agriculture Technologies .....	3	ENGL 201	Composition: Advanced Essay.....	5
AGRI 161	Intro. Plant Science .....	2	MATH&107*	Math in Society .....	5
AGRI 162	Intro. Soils .....	3	MATH&146*	Intro. Statistics.....	5
<b>Core Courses</b>			CMST&220	Public Speaking.....	5
AGRI 254	Integrated Pest Management .....	5	HUM& 101	Intro. to Humanities.....	5
AGRI 261	Plant Science.....	5	ART& 100	Art Appreciation.....	5
AGRI 263	Soils.....	5	CHEM&121*	Intro. to Chemistry .....	5
<b>Elective Courses</b>			BIOL& 211	Majors Cellular .....	5
Approved 200-level AGRI electives ..... 10			CHEM&131	Intro. to Organic/Biochemistry.....	5
			MATH& 141*	Precalculus .....	5
			ECON&201	Micro Economics.....	5
<b>Total Credits for Degree</b>					<b>93</b>

\*Placement score required

\*\*See Associate in Applied Science-Transfer Degree Definition, page 32.

Students should work closely with an agriculture adviser to plan this program.

## Pathway for AgriBusiness

Required Course Sequence: *Associate in Technical Science Degree Pathway*

Offered at Wenatchee campus

### Required Courses: transfer and non-transfer degrees

#### Required Courses (for transfer and non-transfer) Credits

AGRI 101	Intro. to Agriculture <i>or</i>	
AGRI 108	Intro. Horticulture <i>or</i>	
AGRI 105	Ag Mechanics.....	3
AGRI 161	Intro. Plant Science .....	2
AGRI 162	Intro. Soils .....	3
AGRI 254	Integrated Pest Management .....	5
AGRI 261	Plant Science.....	5
AGRI 263	Soil Science.....	5

### Courses chosen based on student's emphasis or pathway:

	<b>Business courses will replace some introductory and core AGRI courses—see adviser.....</b>	<b>58</b>
ENGL& 101*	Composition: General .....	5
	College-level transfer math* .....	5
CHEM&110	Chemical Concepts .....	5
CHEM&121*	Intro. to Chemistry .....	5
BIOL& 100	Survey of Biology .....	5
CMST&220	Public Speaking.....	5

**Total Credits for Degree 98**

\*Placement score required.