



MEMORANDUM OF UNDERSTANDING



between

Columbia Basin College

and

the College of Agricultural, Human, and Natural Resource Sciences

Washington State University

Columbia Basin College (CBC) and Washington State University (WSU) hereby enter into a Memorandum of Understanding (MOU) based on a Customized Articulation Agreement (CAA) for transfer students from CBC to WSU with Associates of Arts (AA) Degree who follow the attached advising recommendations for the Crop and Soil pathway and matriculate into Bachelor in Science in Integrated Plant Sciences degree in Fruit & Vegetable Management in the College of Agricultural, Human, and Natural Resource Sciences (CAHNRS) at Washington State University.

This Customized Articulation Agreement is intended to eliminate duplication of coursework and better integrate programs to ensure a more efficient pathway to graduation. The purpose of this set of advising recommendations is to provide students of CBC a more efficient transfer pathway to Washington State University (WSU). Students who complete the AA degree with an Emphasis in Crop & Soil Science with at least a 2.0 cumulative grade point average will be certified as Fruit & Vegetable Management majors at WSU; and will be granted Junior standing, assuming the total number of credits accepted in transfer equals at least 60 semester credits.

Transfer coursework for students completing the CBC degree covered by this MOU will be applied to the Washington State University Common Requirements (UCORE, the general education program), as applicable under the WSU Transfer Course Equivalency Guidelines, and to the individual degree options within the CAHNRS as specified in this agreement. The transfer of credit allowed under this MOU is structured to maximize the use of CBC credit applicable to each specific degree option, up to the total of 73 semester credits of lower-division transfer credit allowed under Washington State University policy. All such credit not applicable under the WSU Transfer Course Equivalency Guidelines applies only to the WSU degree(s) covered by this agreement. If students transfer prior to completing the transfer degree, acceptance of the courses toward a WSU degree will be based on WSU Transfer Equivalency Guidelines.

The agreed upon courses of study are outlined in Attachments A and B of this MOU. Attachment A details the specific *set of requirements to be completed* at CBC and Washington State University in order to earn Bachelor of Science in Integrated Plant Sciences degree in Fruit & Vegetable Management. Attachment B specifies the required *term-by-term course of study* as offered by CBC and WSU.

The required course of study may be changed at any time with the mutual written agreement of the participating institutions. At such time, the Attachments to this MOU will be updated. Suggestions about which courses of study need to be reviewed will be called for each year. However, unless otherwise agreed upon by both institutions on an individual student basis, students will be responsible for the course of study at CBC and Washington State University in effect at the time the student enters the CBC Associates in Arts degree in Crop & Soil Science specified in this MOU.

ATTACHMENT A Articulation Planning Grid

**Columbia Basin College (CBC), Associates of Arts Degree, Crop&Soil Science Pathway → WSU
CAHNRS Bachelor in Science in Integrated Plant Sciences, Fruit & Vegetable Management**

CI Courses & Semester Credit Equivalents ¹		WSU Requirements & Semester Credits	
A: WSU UCORE Requirements			
		First-Year Experience	3
Fulfilled in DTA		[ROOT] Roots of Contemporary Issues = HIST 105	
		Foundational Competencies	9
MATH& 146	3.35	[QUAN] Quantitative Reasoning = STAT 212	
ENGL& 101	3.35	[WRTG] Written Communication = ENGLISH 101	
		<i>One WRTG required plus either WRTG or COMM</i>	
CMST& 220	3.35	[COMM] Communication = COM 102	
		Ways of Knowing	16
ECON& 201	3.35	[SSCI] Inquiry in the Social Sciences = ECONS 101	
HIST& 146	3.35	[HUM] Inquiry in the Humanities = HISTORY 110	
ART& 100	3.35	[ARTS] Inquiry in the Creative and Professional Arts = FINE ART 101	
		Inquiry in the Natural Sciences	
BIOL& 211	3.35	[BSCI] Biological Science = BIOLOGY 107 AND	
CHEM& 121	3.35	[PSCI] Physical Science = CHEM 101	
		Integrative and Applied Learning	6
HIST& 126	3.35	[DIVR] Diversity = HISTORY 120	
		Hort 425 [CAPS] Integrative Capstone <i>400-level</i>	3
UCORE Credits at WSU at lower-division²			0
UCORE Credits at WSU at upper-division³			3
Total UCORE Credits to be completed at WSU			3

B: WSU Writing Requirements	
Writing in the Major (min. of two [M] courses)	HORT 418, ENTOM 343 & HORT 425
Writing Portfolio	

CI Courses & Semester Credit Equivalents ¹		WSU Requirements & Semester Credits	
C: Core Program Requirements			
BIOL 140	3.35	BIOL 120	
CHEM& 122 + 123	6.70	CHEM 102	
HORT 202	3.35	CROP_SCI/ HORT 102	
HORT 203	3.35	CROP_SCI/ HORT 202	
BIOL 201	3.35	SOIL_SCI 201 & 202	
BIOL 252	3.35	ENTOM 343 [M]	
		ENTOM 351	3
		CROP_SCI 411 [M] or HORT 416	3
		PL P 300 or 429	2-3
		HORT 399	1
Core Credits at WSU at lower-division²			0
Core Credits at WSU at upper-division³			9-10

CI Courses & Semester Credit Equivalents ¹		WSU Requirements & Semester Credits	
D: Major/Option Requirements			
		HORT 351	4
		HORT 310	3
		HORT 313	3
		HORT 320	3
		HORT 418 [M]	3
		SOIL_SCI 411	3
		BIOL 420	3
		Adv. Fruit & Veg Elective	3
		Pest Management Elective	2-3
		Environmental Hort Elective	3
		Sustainability Elective	2-3
Major/Option Credits at WSU at lower-division²			0
Major/Option Credits at WSU at upper-division³			32-34

CI Courses & Semester Credit Equivalents ¹		WSU Requirements & Semester Credits	
E: Electives			
ENGL& 102	3.35	ENGLISH 1XX	
Health & Physical Education	2.01	Electives	
ECON& 202	3.35	Electives	
PSYC& 100	3.35	Elective	
		Elective	11-12
Elective Credits at WSU at lower-division³			0
Elective Credits at WSU at upper-division⁴			0

SUMMARY	
Minimum Credits for WSU degree⁴	120
Total Upper-Division Credits at WSU³	43-47

ATTACHMENT A

Articulation Planning Grid

Columbia Basin College (CBC), Associates of Arts Degree → WSU CAHNRS Bachelor in Science in Integrated Plant Sciences, Fruit & Vegetable Management

Total Semester Credits transferred to WSU^{5,6}	63.65
Total UCORE Credits to be completed at WSU	3
Total Core Credits to be completed at WSU	9-10
Total Major Credits to be completed at WSU	32-34

Total Elective Credits to be completed at WSU	11-12
Total Credits to be completed at WSU	57-59
Total Credits to complete articulated agreement	121.6
	6-
	124.6
	6

NOTES:

¹ Conversion formula for quarter to semester credits: Quarter credits x .67 = Semester credits

² Upper-division courses may also fulfill these requirements.

³ A minimum of 40 semester hours must be upper-division (300-400) credit (Rule 114).

⁴ Minimum WSU graduation requirements are 120 total semester hours and a 2.0 overall grade point average (GPA). Each department may have specific GPA requirements.

⁵ Ninety semester hours shall be the maximum allowed by transfer toward a baccalaureate degree.

⁶ The maximum combined lower-division transfer credit allowed [from approved accredited institutions, CLEP (College Level Examination Program), AP (Advanced Placement), IB (International Baccalaureate), Cambridge International, military, and any other source] shall be 73 semester credits toward a baccalaureate degree irrespective of when those credits were earned.

ATTACHMENT B

Term-by-Term Planning Sheet

**Columbia Basin College (CBC), Associates of Arts Degree, Crop & Soil Science Pathway→
WSU CAHNRS Bachelor in Science in Integrated Plant Sciences, Fruit & Vegetable Management**

Columbia Basin College

<i>Course #</i>	<i>Course Title</i>	<i>Quarter Credits</i>	<i>Sem. Credits¹</i>
Year 1 - Fall Quarter			
BIOL 140	Botany w/ Lab	5	3.35
ENGL&101	English Composition	5	3.35
MATH& 146	Introduction to Stats	5	3.35
<i>Total Quarter Credits</i>		15	10.05
Year 1 - Winter Quarter			
HORT 202	Cultivated Plants w/ Lab	5	3.35
ENGL& 102	English Composition II	5	3.35
HIST& 126	World Civilizations I	5	3.35
<i>Total Quarter Credits</i>		15	10.05
Year 1 - Spring Quarter			
PSYC& 100	General Psychology	5	3.35
ECON& 201	Micro Economics	5	3.35
BIOL 201	Soils w/ Lab	5	3.35
<i>Total Quarter Credits</i>		15	10.05
Year One Total		45	30.15

Year 2 - Fall Quarter			
HORT 203	Crop Growth and Development w/ Lab	5	3.35
CMST& 220	Public Speaking	5	3.35
HIST& 128	World Civilizations III	5	3.35
CHEM& 121	Intro to Chemistry w/ Lab	5	3.35
<i>Total Quarter Credits</i>		20	13.4
Year 2 - Winter Quarter			
ART& 100	Art Appreciation [H]	5	3.35
BIOL& 211	Major Cellular	5	3.35
CHEM& 122	Intro to Organic Chemistry w/ Lab	5	3.35
	Health & PE Requirement	3	2.01
<i>Total Quarter Credits</i>		18	12.06
Year 2 - Spring Quarter			
BIOL 252	Insects of Economic	5	3.35
ECON 202	Macro Economics	5	3.35
CHEM& 123	Intro to Biochemistry w/ Lab	5	3.35
<i>Total Quarter Credits</i>		15	10.05
Year Two Total		53	33.5
Total CBC Credits		98	65.66

Washington State University

Year 3 - Fall Semester		
<i>Course #</i>	<i>Course Title</i>	<i>Sem. Credits</i>
HORT 310	Pomology	3
HORT 313	Viticulture	3
HORT 320	Olericulture ²	3
BIOLOGY 420	Intro. to Plant Physiology	3
	Elective ⁸	3
Total Credits		15

Year 3 - Spring Semester		
<i>Course #</i>	<i>Course Title</i>	<i>Sem. Credits</i>
ENTOM 351	Ecological & Integrated Pest Management	3
SOIL SCI 441	Soil Fertility	3
	Sustainability Elective ⁴	2-3
HORT 351	Plant Propagation	4
	Elective ⁸	3
Total Credits		15-16

Year 4 - Fall Semester		
<i>Course #</i>	<i>Course Title</i>	<i>Sem. Credits</i>
	Environmental Hort Elective	3
HORT 418 [M]	Postharvest Biology & Technology	3
PL_P 300 or 429	Diseases of Fruit Crops or General Plant Pathology	2-3
	Pest Management Elective ⁵	2-3
	Elective ⁸	3
Total Credits		13-15

Year 4 - Spring Semester		
<i>Course #</i>	<i>Course Title</i>	<i>Sem. Credits</i>
HORT 425 [M] [CAPS]	Trends in Horticulture	3
HORT 416	Adv. Hort Crop Physiology	3
	Adv. Fruit or Veg. Elective ⁷	3
	Elective ⁸	3
	Hort 399	1
Total Credits		13

TOTAL WSU CREDITS	56-59
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ATTACHMENT B

Term-by-Term Planning Sheet


Columbia Basin College (CBC), Associates of Arts Degree, Crop & Soil Science Pathway →
WSU CAHNRS Bachelor in Science in Integrated Plant Sciences, Fruit & Vegetable Management

NOTES:

- ¹ Conversion formula for quarter to semester credits: Quarter credits x .67 = Semester credits
- ² HORT 320 offered Fall Odd Years
- ³ Environmental Horticulture Elective (3 credits): HORT 330, HORT 331, HORT 332, HORT 357, PLSC 340 (U of I), and/or consult with your advisor.
- ⁴ Sustainability Elective (2-3 credits): BIOLOGY 330, BIOLOGY 372, SOE 285, SOIL_SCI 101, SOIL_SCI 302, SOIL_SCI 480, and/or consult with your advisor.
- ⁵ Pest Management Electives (2-3 credits): CROP_SCI 305, IPM 452, PL_P 300, PL_P 429, and/or consult with your advisor.
- ⁶ HORT 416 can be taken in the spring as an alternative to CROP_SCI 411.
- ⁷ Advanced Fruit or Vegetable Electives (3 credits): HORT 413, HORT 421, HORT 480, HORT 490, and/or consult with your advisor.
- ⁸ Final number of elective credits dependent on credits necessary to achieve 120 credits total.

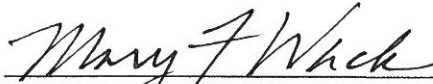
The undersigned certify this Memorandum of Understanding:

Washington State University



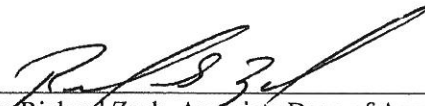
Dr. Elizabeth Chilton, Provost and Executive Vice President

7/7/21
Date




Dr. Mary Wack, Vice Provost for Academic Engagement
& Student Achievement

17 June 2021
Date



Dr. Richard Zack, Associate Dean of Academic Programs
College of Agricultural, Human, and Natural Resource Sciences


9 June 2021
Date



Dr. Amit Dhingra, Interim Chair of Horticulture

06/08/2021
Date

Columbia Basin College



Dr. Rebekah Woods, President

9/16/2021
Date



Dr. Michael Lee, Associate Vice President for Instruction

9/16/2021
Date