



MEMORANDUM OF UNDERSTANDING

between

***Walla Walla Community College and
the College of Agricultural, Human, and Natural Resource Sciences
Washington State University***



Walla Walla Community College (WWCC) and Washington State University (WSU) hereby enter into a Memorandum of Understanding (MOU) based on a Customized Articulation Agreement (CAA) for transfer students from WWCC to WSU with AAS-T degree in Food Science who follow the attached advising recommendations and matriculate into a B.S. degree in Food Science, General Option 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 WWCC a more efficient transfer pathway to Washington State University (WSU). Students who complete the AAS-T degree in Food Science, General Option with at least a 2.0 cumulative grade point average will be admitted to the Food Science 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 WWCC 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 WWCC 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 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 WWCC and Washington State University in order to earn a B.S. degree in Food Science, General Option. Attachment B specifies the required term-by-term course of study as offered by WWCC 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 WWCC and Washington State University in effect at the time the student enters the WWCC AAS-T degree in Food Science specified in this MOU.

The undersigned certify this Memorandum of Understanding:

Washington State University



Dr. Elizabeth Chilton, Provost and Executive Vice President,
Chancellor-designate WSU Pullman

April 27, 2022

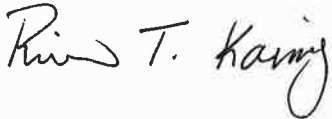
Date



Dr. William B. Davis, Interim Vice Provost for Academic
Engagement and Student Achievement

April 27, 2022

Date



Dr. Richard T. Koenig, Interim Dean
College of Agricultural, Human, and Natural Resource Sciences

April 21, 2022

Date

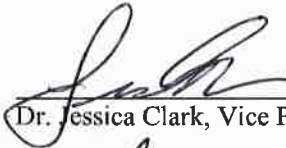


Dr. Girish Ganjyal, Interim Director
School of Food Science

April 30th, 2022

Date

Walla Walla Community College



Dr. Jessica Clark, Vice President of Instruction

5/12/22

Date



Mr. Gerald Anhorn, Dean of Workforce Education & BAS Programs

6/16/22

Date

ATTACHMENT A
Articulation Planning Grid
Walla Walla Community College AAS-T in Food
WSU CAHNRS B.S. in Food Science-General Option

CI Courses & Semester Credit Equivalents ¹		WSU Requirements & Semester Credits	
A: WSU UCORE Requirements			
		First-Year Experience	3
HIST& 128	3.35	[ROOT] Roots of Contemporary Issues: HISTORY 105	
		Foundational Competencies	9
MATH& 146 (or Math 201)	3.35	[QUAN] Quantitative Reasoning: STAT 212	
ENGL& 101	3.35	[WRTG] Written Communication: ENGLISH 101	
CMST&220	3.35	[COMM] Communication: COM 102 OR [WRTG]	
		Ways of Knowing	16
ECON& 201	3.35	[SSCI] Inquiry in the Social Sciences: ECONS 101	
HIST& 127	3.35	[HUM] Inquiry in the Humanities: HISTORY 121	
ART& 100	3.35	[ARTS] Inquiry in the Creative and Professional Arts: FINE ART 101	
		A. Inquiry in the Natural Sciences ²	
BIOL& 211	3.35	[BSCI] Biological Sciences: BIOLOGY 107	
CHEM& 161	3.35	[PSCI] Physical Sciences: CHEM 105 ⁷	
		Integrative and Applied Learning	6
HIST& 126	3.35	[DIVR] Diversity: HISTORY 120	
		[CAPS] Integrative Capstone: FS 489	3
UCORE Credits at WSU at lower-division³			0
UCORE Credits at WSU at upper-division⁴			3
Total UCORE Credits to be completed at WSU			3

B: WSU Writing Requirements	
Writing in the Major (min. Of two [M] courses)	FS 302 [M] FS 461 [M]
Writing Portfolio	

CI Courses & Semester Credit Equivalents ¹		WSU Requirements & Semester Credits	
C: Core Program Requirements			
CHEM& 162 + 163	6.7	CHEM 106 ⁷	
		PHYSICS 101 & 111	4
MATH& 151	3.35	MATH 140 or 171	
BIOL& 260	3.35	MBIOS 101	
NUTR& 101	3.35	BIOLOGY 140	
		FS 110	3
		CHEM 345	4
		FS 220	3
		Chem 370 or MBIOS 303	3-4
Core Credits at WSU at lower-division³			10
Core Credits at WSU at upper-division⁴			7-8

D: Major/Option Requirements			
		FS 302	1
		FS 303	3
		FS 350	5
		FS 416	3
		FS 417	2
		FS 418	1
		FS 432	3
		FS 433	1
		FS 460	3
		FS 461	1
		FS 470	3
		FS 489 ¹¹	0
		FS Elective credits	12
		Emphasis Elective credits	8
Major/Option Credits at WSU at lower-division³			0
Major/Option Credits at WSU at upper-division⁴			46

E: Open Electives			
AGBS 221 ¹⁰	3.35	ECONS 351 ⁸	
Elective Credits at WSU at lower-division³			0
Elective Credits at WSU at upper-division⁴			0

Summary	
Minimum Credits for WSU degree ⁵	120
Total Upper-Division Credits at WSU ⁴	53-54
Total Upper-Division Credits at WWCC ⁸	3.35
Total Semester Credits transferred to WSU ⁶	60
Total UCORE Credits to be completed at WSU	3
Total Core Credits to be completed at WSU	17-18
Total Major Credits to be completed at WSU	46
Total Elective Credits to be completed at WSU	0
Total Credits to be Completed at WSU	66-67
Total Credits to complete articulated agreement	130-131

ATTACHMENT A
Articulation Planning Grid
Walla Walla Community College AAS-T in Food
WSU CAHNRS B.S. in Food Science-General Option

NOTES:

- ¹ Conversion formula for quarter to semester credits: Quarter credits x .67 = Semester credits
- ² Students have two options: A) Inquiry in the Natural Sciences (7), Biological Science (3-4) and Physical Science (3-4) **OR** an Interdisciplinary Science (8). Choose A or B to fulfill this requirement.
- ³ Upper-division courses may also fulfill these requirements.
- ⁴ A minimum of 40 semester hours must be upper-division (300-400) credit (Rule 114).
- ⁵ 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.
- 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 credit hours toward a baccalaureate degree irrespective of when those hours were earned.
- ⁷ This sequence (CHEM& 161, 162, and 163) must be fully completed to transfer to WSU as CHEM 105 and 106.
- ⁸ Students will take AGBS 221 at WWCC which is equivalent to ECONS 351 at WSU. These credits will count towards the students' total upper division credits
- ⁹ First year experience course will need to be taken at either Walla Walla Community College or Washington State University.
- ¹⁰ Satisfies the Emphasis elective credits.
- ¹¹ Credits for this course counted for UCORE total.

ATTACHMENT B
Articulation Planning Grid
Walla Walla Community College AAS-T in Food
ScienceWSU CAHNRS B.S. in Food Science-General

Walla Walla Community College			
<i>Course#</i>	<i>Course Title</i>	<i>Quarter Credits¹</i>	<i>Sem. Credits</i>
Year 1 - Fall Quarter			
CHEM& 161	General Chemistry 1 ²	5	3.35
HIST& 126	World Civ. I= HISTORY 120	5	3.35
NUTR& 101	Nutrition= BIOL 140	5	3.35
Total Credits		15	10.05
Year 1 - Winter Quarter			
CHEM& 162	General Chemistry II ²	5	3.35
HIST& 127	World Civ. II= HISTORY 121	5	3.35
ENGL& 101	English Comp. I=ENGLISH 101	5	3.35
Total Credits		15	10.05
Year 1 - Spring Quarter			
CHEM& 163	General Chemistry III ²	5	3.35
AGBS 201	Microeconomics. = ECONS 101	5	3.35
HIST& 128	World Civ. III= HIST 105	5	3.35
Total Credits		15	10.05
Year One Total		45	30.15
Year 2 - Fall Quarter			
BIOL& 211	Majors Cellular= BIOLOGY 107	5	3.35
CMST&220	Public Speaking= COM 102	5	3.35
MATH& 151	Calculus I	5	3.35
Total Credits		15	10.05
Year 2 - Winter Quarter			
BIOL&213	Majors Plant ³	5	3.35
ART& 100	Art Appreciation. = FINE ART 101	5	3.35
AGBS 221	Intro to Food & Ag Markets= ECONS 351	5	3.35
Total Credits		15	10.05
Year 2 - Spring Quarter			
BIOL& 212	Majors Animal ³	5	3.35
MATH& 146	Intro to Statistics= STAT 212	5	3.35
BIOL&260	Microbiology = MBIOS IO1	5	3.35
Total Credits		15	10.05
Year Two Total		45	30.15
TOTAL WWCC CREDITS		90	60.30

Washington State University		
Year 3 - Fall Semester		
<i>Course#</i>	<i>Course Title</i>	<i>Sem. Credits</i>
CHEM345	Organic Chemistry	4
FS 110	Intro to Food Science	3
FS 302	Food Processing Lab	1
FS 303	[M] Food Processing	3
FS 416 & 417	Food Microbiology & Lab	3+2
FS XXX	Food Science Elective	1
Total Credits		17
Year 3 - Spring Semester		
<i>Course#</i>	<i>Course Title</i>	<i>Sem. Credits</i>
FS 220	Food Safety & Quality	3
Chem 370 or MBIOS 303	Chemical Biology or Intro Biochemistry	3-4
FS 350	Instrumental & Sensory Analysis of Food and Lab	5
FS 418	Seminar in Food Science	1
FS 432	Food Engineering	3
FS 433	Food Engineering Lab	1
FS XXX	Food Science Elective	1
Total Credits		17-18
Year 4 - Fall Semester		
<i>Course#</i>	<i>Course Title</i>	<i>Sem. Credits</i>
FS 460	Food Chemistry	3
FS 461	[M] Food Chemistry Lab	1
FS XXX	Food Science Electives	8
PHYSICS 101 & 111	Physics 101 & 111 Lab	3+1
Total Credits		16
Year 4 - Spring Semester		
<i>Course#</i>	<i>Course Title</i>	<i>Sem. Credits</i>
FS 470	Advanced Food Technology	3
FS 489	Food Product Development	3
FS XXX	Food Science Electives	2
	Emphasis Electives	8
Total Credits		16
Total WSU Credits		66-67

ATTACHMENT B
Articulation Planning Grid
Walla Walla Community College AAS-T in Food
ScienceWSU CAHNRS B.S. in Food Science-General

NOTES:

- ¹ Conversion formula for quarter credits to semester credits: Quarter credits x .67 = Semester credits.
- ² This sequence (CHEM& 161, 162, and 163) must be fully completed to transfer to WSU as CHEM 105 and 106.