MEMORANDUM OF UNDERSTANDING
between
**Walla Walla Community College**
and
**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 the Associate in Applied Arts and Sciences Degree in Watershed Ecology-ES who follow the attached advising recommendations and matriculate into the Earth & Environmental Sciences Degree in Earth Sciences in the College of Agricultural, Human, and Natural Resource Sciences (CAHNRS) and College of Arts and Sciences (CAS) 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 WSU. Students who complete the Associate in Applied Arts and Sciences Degree in Watershed Ecology-ES with at least a 2.0 cumulative grade point average will be admitted to the major as Earth Sciences 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 Associate in Applied Arts and Sciences Degree in Watershed Ecology-ES 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 and CAS as specified in this agreement. The transfer of credit allowed under this MOU is structured to maximize the use of Walla Walla Community College 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 Walla Walla Community College and Washington State University in order to earn Earth and Environmental Sciences degree in Earth Sciences. 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 Walla Walla Community College and Washington State University in effect at the time the student enters the Walla Walla Community College Associate in Applied Arts and Sciences Degree in Watershed Ecology-ES 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 — 4/20/2022 Date

Dr. William B. Davis, Interim Vice Provost for Academic Engagement & Student Achievement — 4/12/2022 Date

Dr. Richard T. Koenig, Interim Dean
College of Agricultural, Human, and Natural Resource Sciences — 4/11/2022 Date

Dr. C Kent Keller, Director/Professor
School of the Environment — 28 Feb 2022 Date

**Walla Walla Community College**

Dr. Jessica Clark, Vice President of Instruction — 4/22/22 Date

Mr. Gerald Anhorn, Dean of Workforce Education & BAS Programs — 4/21/2022 Date

Attachment A – Term-by-Term Planning Sheet

**Walla Walla Community College Watershed Ecology-ES →WSU CAHNRS and CAS B.S.**

**WSU Articulation Agreement for Earth Sciences**

## Walla Walla Community College

| **Year 1 - Fall Quarter** | | | |
|---|---|---|---|
| *Course Number* | *Course Title* | *Quarter Credits* | *Sem. Credits* |
| CHEM& 121 or 161[6] | Intro to Chemistry or General Chemistry I = CHEM 101 or 105 | 5 | 3.35 |
| ENGL& 101 | English Composition | 5 | 3.35 |
| MATH& 141 | Pre-Calculus I | 5 | 3.35 |
| FYE[5] | First Year Experience (if needed) | | |
| | Total Credits | 15 | 10.05 |
| **Winter Quarter** | | | |
| MATH& 141 | Pre-Calculus II | 5 | 3.35 |
| CHEM& 122 or 162[6] | Intro to Organic Chemistry or General Chemistry II | 5 | 3.35 |
| CMST& 220 | Public Speaking | 5 | 3.35 |
| | | | |
| | Total Credits | 15 | 10.05 |
| **Spring Quarter** | | | |
| GEOG& 101 | Intro to physical Geology | 5 | 3.35 |
| CHEM& 123 or 163[6] | Intro to Biochemistry or General Chemistry II | 5 | 3.35 |
| ART& 101 | Art Appreciation | 5 | 3.35 |
| | Total Credits | 15 | 10.05 |
| | **Year One Total** | **45** | **30.15** |

| **Year 2 – Fall Quarter** | | | |
|---|---|---|---|
| *Course Number* | *Course Title* | *Quarter Credits* | *Sem. Credits* |
| BIOL& 211 | Majors Cellular | 5 | 3.35 |
| GIS 150 | Introduction to GIS | 3 | 2.01 |
| AGBS 222 | Ag & Water Policy | 5 | 3.35 |
| MATH& 151 | Calculus I | 5 | 3.35 |
| | Total Credits | 18 | 12.06 |
| **Winter Quarter** | | | |
| BIOL& 213 | Majors Plant | 5 | 3.35 |
| GIS 151 | Advanced GIS | 3 | 2.01 |
| MATH& 152 | Calculus II | 5 | 3.35 |
| | Total Credits | 13 | 8.71 |
| **Spring Quarter** | | | |
| BIOL& 212 | Majors Animal | 5 | 3.35 |
| HIST& 128 | World Civilization III | 5 | 3.35 |
| AGBS 201 or ECON& 201 | Microeconomics | 5 | 3.35 |
| | Total Credits | 15 | 10.05 |
| | **Year Two Total** | **46** | **30.82** |
| | **TOTAL WWCC CREDITS** | **91** | **60.97** |

## Washington State University

| **Third Year - Fall Semester** | | |
|---|---|---|
| *Course Number* | *Course Title* | *Sem. Credits* |
| SOE 350 | Earth Materials | 4 |
| | [HUM] | 3 |
| SOE 210 | Intro to Earth's Hist & Evol | 4 |
| PHYSICS 101 & 111 | General Physics and Lab | 4 |
| | Total Credits | **15** |

| **Third Year - Spring Semester** | | |
|---|---|---|
| Course Number | Course Title | Sem. Credits |
| SOE 356 | Magmatic Processes | 3 |
| SOE 303 | Environmental Geology | 3 |
| ENGL 402 | Technical Writing [M} | 3 |
| SOE 312 | Natural Res & Society [DIVR] | 3 |
| SOE 315 | Water and the Earth | 3 |
| | Total Credits | **18** |
| | | |
| **3rd term: Summer Session** | | |
| GEOL 307 | Geology Field Camp | 3 |
| | Total Credits | **3** |

| **Fourth Year - Fall Semester** | | |
|---|---|---|
| Course Number | Course Title | Sem. Credits |
| SOE 320 | Sedimentary Petrology | 3 |
| SOE 340 | Structural Geology [M] | 4 |
| | Upper Division Professional Elective [M] | 3 |
| | Foreign Language (if needed) | |
| SOE 475 | Groundwater | 3 |
| | Total Credits | **13** |

| **Fourth Year - Spring Semester** | | |
|---|---|---|
| Course Number | Course Title | Sem. Credits |
| SOE 4XX | Geoscience for Sust. Dev. | 3 |
| | Upper Division Prof Elective | 4 |
| SOE 300 | Natural Resources Ecology | 3 |
| | Foreign Language (if needed) | |
| SOE 357 | Metamorphic Rocks & Minerals | 3 |
| | Total Credits | **13** |
| | | |
| **Fifth Year – Fall Semester** | | |
| | | |
| | Upper Division Prof Electives | 12 |
| | Total Credits | **12** |
| | | |
| | **TOTAL WSU CREDITS** | **74** |

NOTES: Conversion formula for quarter to semester credits:
Quarter credits x 2/3 = semester credits

Updated February 2022

Attachment B – Articulation Grid

**Walla Walla Community College Watershed Ecology-ES →WSU CAHNRS and CAS B.S. WSU Articulation Agreement for Earth Sciences**

| Partner Courses | (semester credit equivalents) | WSU Requirements (semester credits) | |
|---|---|---|---|
| **A: WSU UCORE Requirements** | | | |
| | | **First-Year Experience** | **3** |
| HIST& 128 | 3.35 | [ROOT] Roots of Contemporary Issues: HIST 105 | |
| | | **Foundational Competencies** | **10** |
| ENGL& 101 | 3.35 | [WRTG] Written Communication: ENGL 101 | |
| CMST& 220 | 3.35 | [COMM] Communication: COM 102 | |
| MATH& 152 | 3.35 | [QUAN] Quantitative: MATH 171 | |
| | | | |
| | | **Ways of Knowing** | **20** |
| AGBS 201 | 3.35 | [SSCI] Inquiry in the Social Sciences: ECONS 101 | |
| HUM 101 or HUM& 116 or HIST& 127 | 3.35 | [HUM] Inquiry in the Humanities: HUM 101 or HIST 121 | |
| AGBS 222 | 3.35 | /SSCI UCORE elective 2xx | |
| ART& 100 | 3.35 | [ARTS] Inquiry in the Creative and Professional Arts FINE_ART 101 | |
| | | *A. Inquiry in the Natural Sciences* | *7* |
| BIOL& 212 + BIOL& 213 | 6.7 | [BSCI] Biological Science: BIOLOGY 106 AND | |
| CHEM& 121 & 122 OR CHEM& 161 & 162 | 3.35 | [PSCI] Physical Science: CHEM 101 or 105 | |
| | | **Integrative and Applied Learning (included in ENVR Core)** | |
| | | [DIVR] Global Diversity: Non-major elective or SOE 312 | |
| | | [CAPS] Integrative Capstone: GEOL 408 | |
| | | CAS Foreign Language Req | |
| | | **Other Required Courses** | **19** |
| | | ENVR SCI 101 | 3 |
| MATH& 141 | 3.35 | MATH 106 | |
| MATH& 142 | 3.35 | MATH 108 | |
| CHEM& 162 + 163 | 6.7 | CHEM 102 or 106 | |
| | | PHYSICS 101 or 201 | 4 |
| GEOL& 101 | 3.35 | GEOLOGY 101 | |
| **UCORE Credits at WSU at lower-division[1]** | | | **7** |
| **UCORE Credits at WSU at upper-division[2]** | | | **0** |
| **Total UCORE Credits to be completed at WSU** | | | **0** |

| Partner Courses (semester credit equivalents) | | WSU Requirements (semester credits) | |
|---|---|---|---|
| **D: Earth Sciences Major Requirements** | | | **29** |
| | | GEOL 210 | 4 |
| | | PHYS 102 or 202 | 4 |
| | | *GEOL 307* | *3* |
| | | GEOL 320 | 3 |
| | | GEOL 340 | 4 |
| | | GEOL 350 | 4 |
| | | GEOL 356 | 4 |
| | | *GEOL 408* | *0* |
| **Major Credits at WSU at lower-division[1]** | | | **4** |

| **B: WSU Writing Requirements** | | | |
|---|---|---|---|
| Partner Courses (semester credit equivalents) | | WSU Requirements (semester credits) | |
| **C: Core Program Requirements** | | | **27-30** |
| | | ENGLISH 301 or 402 | 3 |
| | | SOE 300 or BIOL 372 | 3 |
| GIS 150 + 151 | 4 | SOIL SCI 368 | |
| | | GEOLOGY 303 | 3 |
| | | SOE 312 [DIVR] | 3 |
| | | *SOE 460 or GEOL 315* | 3 |
| | | *GEOL 408 [M] [CAP]* | *3* |
| | | STATS 412 | 3 |
| | | *GEOL 307* | *3* |
| **Core Credits at WSU at lower-division[1]** | | | **0** |
| **Core Credits at WSU at upper-division[2]** | | | **24** |

| Partner Courses (semester credit equivalents) | | WSU Electives (semester credits) | |
|---|---|---|---|
| **E: Professional Electives** | | | **10** |
| | | Upper Division Electives | 10 |
| **Elective Credits at WSU at lower-division[1]** | | | **0** |
| **Major Elective Credits at WSU at upper-division[2]** | | | **10** |

| **SUMMARY** | |
|---|---|
| Minimum Credits for WSU degree[3] | **120** |
| Total Upper-Division Credits at WSU | **56** |
| Total Semester Credits transferred to WSU[4] | **60.97** |
| Total UCORE Credits to be completed at WSU | **7** |
| Total Core Credits to be completed at WSU | **26** |
| Total Major Credits to be completed at WSU | **24** |
| Total Elective Credits to be completed at WSU | **10** |
| Total Credits to be completed at WSU | **67** |
| Total Credits to complete articulated agreement | **127.97** |

NOTES:

[1]Upper-division courses may also fulfill these requirements.

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

[3]Minimum graduation requirements are 120 total semester hours and a 2.0 overall grade point average (GPA).

[4]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.

[5] First year experience course may need to be taken at Walla Walla Community College.

[6] Full chemistry sequence (CHEM& 161, 162, and 163) is required to keep credits above 90 at WWCC.