



A statewide policy that identifies the community college courses needed to transfer to any participating Oregon public university with the same status as a first-time freshman seeking a Bachelor of Science in Biology.

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Statewide Transfer Articulation Agreement:
Major Transfer Map Curriculum Articulation Policy in Biology
90 Credits

Associate of Science Transfer in Biology

From: Blue Mountain Community College
Central Oregon Community College
Chemeketa Community College
Clackamas Community College
Clatsop Community College
Klamath Community College
Lane Community College
Linn-Benton Community College
Mt. Hood Community College
Oregon Coast Community College
Portland Community College
Rogue Community College Southwestern
Oregon Community College

Treasure Valley Community College
Umpqua Community College

To: Eastern Oregon University
Oregon State University
Portland State University
Southern Oregon University
University of Oregon
Western Oregon University
Oregon Institute of Technology

180 total credits for:
Bachelor of Science in Biology

Introduction: A Major Transfer Map Curriculum and Articulation Policy (MTM CAP) is for students transferring from a participating Oregon community college to any participating Oregon university who know which major/bachelor's degree program they want to pursue. The MTM CAPs identify the optimal and specific set of lower division courses students must take to transfer efficiently into the major at the university. The successful completion of the major transfer map allows students to receive the number of academic credits referenced in this MTM CAP, and comparable standing to the status of students with the same number of academic credits in the major course of study who began their postsecondary studies at the public university. MTM CAPs must include at least 30-credits of general education defined by the Core Transfer Map (CTM). MTM CAPs may choose to specify relevant or required General Education courses as part of the 30-credit CTM component of the MTM CAP. Receiving institutions will not require students to retake a course if the minimum grade requirements, specified in this agreement, have been met.

The statewide MTM CAPs will use one of the following formats. The selected format will be specified in each approved MTM program:

- an Associate of Science Transfer degree in Biology

Students must have earned a cumulative grade point average of 2.0 and meet the residency requirements at the community college awarding the MTM.

When students complete an MTM, the general education courses in the "Core Transfer Map" portion of the MTM, for which minimum required grades have been earned, are guaranteed to transfer into general education, degree, or major requirements for a bachelor's degree at any Oregon public university (ORS 350.404).

Students who want to transfer prior to completing the MTM should talk with their community college advisor and an advisor at their target university prior to transfer about how their courses will count towards general education requirements and degree/major requirements. If the MTM is not awarded advisors can guide students to determine if they are eligible for a CTM.

The guarantees and limitations in the next two sections describe the requirements all participating institutions.

Part 1: Guarantees

Students who complete all the requirements specified within an MTM CAP (i.e. an MTM CAP associate's degrees or an MTM non-degree package when optimal transfer requires fewer than 90 credits) as defined, who have earned the minimum required grades and a cumulative 2.0 GPA or higher, meet residency requirements, and who are admitted to the receiving institution's corresponding major/degree program are guaranteed the following:

1. Time until completion of the major at the public university that is comparable to time until the completion of students with the same number of academic credits in the major course of study who began at the public university (when the MTM is equal to at least 90 credits this would equate to receiving "junior status in the major course of study at the public university").
2. Catalog rights follow the MTM CAP agreement. Eligibility to graduate following the bachelor's degree requirements in effect at the university during the academic year the student first enrolled in the community college that awarded the Associate of Arts Transfer degree in [MAJOR] or Associate of Science Transfer degree in [MAJOR]. If the student does not complete the MTM CAP

bachelor's degree within 7 years of the first enrollment at the community college awarding the MTM CAP, they should meet with an advisor to determine which catalog to use.

3. If a student transfers before completing the MTM CAP, all courses will still transfer but may not apply in the same way as they would if the MTM CAP was completed. If the student has completed a CTM, the guarantees inherent in the CTM apply. All courses in the incomplete MTM CAP or incomplete CTM will transfer individually.
4. The ability to file a student complaint.
 - a. Students encourage to first follow their home institution's internal complaint process (e.g., talk to their academic advisor, academic unit, Registrar or Provost)
 - b. Students may send complaints in writing to the Transfer Council. transfercouncil@hecc.oregon.gov].
 - c. No later than 2027, the Commission will approve Oregon Administrative Rules that outline a comprehensive student complaint process that will center the Transfer Council as the primary focal point for interinstitutional transfer student complaints.
 - d. The HECC only has authority to handle student complaints if they are related to discrimination or retaliation.
5. Students who successfully complete the MTM CAP at a community college will have the MTM CAP notated on their transcript. If the MTM CAP takes the form of an associate degree, it will be reflected in the standard degree posting format used by the community college and specifically notated on page two of this document. If the MTM CAP is not an associate degree, but rather an optimal transfer point with fewer than 90 credits, it will be posted as a notation on the community college transcript and specifically notated on page two of this document.

Part 2: Limitations

1. Completion of the prescribed curriculum in the MTM CAP does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution in place at the time of admission, including the submission of all required documentation by stated deadlines.
2. Minimum grades required for general transfer and for application to major requirements and pre-requisites may vary by each Oregon public university and by each degree/major. Each MTM CAP agreement will specifically list the minimum grade requirements that will guarantee transfer including minimum required grades for major courses and Pass/No Pass limitations. All schools accept a grade of a "C -" or better in all general education courses. Students should contact the admissions counselor or intake advisor at the university they intend to transfer to for more information.
3. Completion of an MTM CAP and admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs at receiving institutions have controlled and/or competitive entry due either to space limitations or academic requirements.
4. The credit and course transfer guarantees described in the specific MTM CAP apply only to the specific degree programs covered by this policy. Therefore, if a student changes to a new major some courses may not apply the same way towards the new major as they would for the original major. When students change majors, the previous MTM CAP major guarantees may no longer apply and receiving institutions will evaluate applicability of transfer on a course-by- course basis.
5. AP (Advanced Placement) and IB (International Baccalaureate) credit:
 - General Education Courses in the MTM CAP:

AP and IB articulated credits used to meet the general education components of the Major Transfer Map Curriculum Articulation Policy will transfer and are guaranteed to fulfill general education requirements at the receiving institution if the articulated credits are listed on the Advanced Placement and International Baccalaureate Statewide *Course Credit Policy* found on the HECC website.
 - AP (Advanced Placement) and IB (International Baccalaureate) in the MTM CAP:

Using the current *AP and IB Statewide Course Credit Policy* as a reference, the Major Transfer Map Curriculum Articulation Policy faculty subcommittee will assess how AP/IB exam scores apply to the MTM CAP (range of credits and course articulations). In particular, the MTM CAP faculty subcommittee will identify whether the credit range and course articulation of AP/IB exam scores differ among the 17 community colleges and 7 public universities in ways that create transfer misalignment for students earning the MTM.

The workgroup will refer all areas of misalignment to the AP/IB Statewide Policy Workgroup, which will coordinate with the higher education institutions' appropriate representatives (including faculty and academic leadership) to resolve the areas of misalignment by establishing common range of credits and defined articulations across the 17/7 so that AP/IB exam credit awarded at any community college will transfer to all public universities and apply as intended in the MTM CAP.

If 17/7 alignment in range of credits and course articulation for AP/IB exam scores is not possible, the MTM faculty subcommittee will determine whether the differences constitute acceptable and warranted variance within the MTM CAP. If so, the subcommittee will communicate about the variance to the Transfer Council upon submission of the MTM CAP. All participating institutions must adhere to the MTM CAP when accepting credits.

6. Please note that each Oregon public university has differing policies on institutionally administered exams (sometimes called Challenge Exams) and students should contact the admissions counselor or intake advisor at the university students intend to transfer to for more information.
7. Students should consult with advisors at their community college and receiving university if they have additional questions.

Part 3: Required Participation

Institutions listed on page two are required to participate in the MTM CAP as governed by the Oregon Administrative Rules (OAR) noted below:

715-025-0015

INSTITUTIONAL PARTICIPATION IN MAJOR TRANSFER MAP CURRICULUM ARTICULATION POLICY DEVELOPMENT

(1) Prior to the development of a CAP, the Commission shall, in consultation with institutions, determine which institutions offer programs that may be subject to the requirements of the CAP. The Commission shall provide a list of such institutions to the Transfer Council.

715-025-0035

COMMISSION CONSIDERATION AND APPROVAL OF MAJOR TRANSFER MAP CURRICULUM ARTICULATION POLICIES

(5) The Commission shall notify participating institutions in writing to provosts or chief academic officers within 60 days of approval of a CAP, and shall specify the academic year no later than which the CAP must first be available for students

715-025-0040

EFFECT OF MAJOR TRANSFER MAP CURRICULUM ARTICULATION POLICY ADOPTION ON INSTITUTIONS

(1) All institutions offering a program leading to a two-year certificate, associate degree, or bachelor's degree, excluding an applied baccalaureate degree, that is the subject of a CAP shall be bound by the terms of the CAP, except as provided in OAR 715-025-0060.

(2) Community colleges shall, not later than the start of the third academic year following notification by the Commission, grant students who are enrolled in the program subject to the notification the credential or designation specified in the Curriculum Articulation Policy, provided such student has completed the requirements of the CAP.

(3) Any institution that enrolls a student with the specified CAP credential or designation must afford the student the privileges of CAPs as specified in ORS 350.404 and the CAP, and shall not require a student to retake a course covered by the credential or designation earned.

Part 4: Institutional Obligations

First, Oregon public universities and community colleges will follow OAR 715-025-0055 to modify a MTM CAP. The Oregon Administrative Rule reads:

MODIFICATION OF MAJOR TRANSFER MAP CURRICULUM ARTICULATION POLICY

(1) An institution considering a course or curriculum change, including the creation of a new academic program, that impacts or may be impacted by an adopted CAP, shall notify the Transfer Council and Commission of the proposed course or curriculum change prior to the implementation of such change.

(2) If the change proposed as provided in section (1) of this rule is the creation of a new program, the Commission shall determine whether the program is subject to the requirements of an existing CAP.

(3) Pursuant to the annual review as provided in OAR 715-025-0050, or upon notification from an institution as provided in section (1) of this rule, the Council shall determine if modification to the CAP is required.

(4) The Council shall appoint a subcommittee for the purpose of considering any modifications and making recommendations for modifying the CAP to the Commission.

(5) Any modifications to a CAP shall be made in accordance to the processes and requirements established in OAR 715-025-0020(2) to (4) and OAR 715-025-0030(2) and (3).

(6) An institution shall not implement any modification to a course or curriculum that would have the effect of causing the institution to be out of compliance with obligations under a CAP unless a modification is approved through the process established in this rule, or the institution receives an exemption as provided in OAR 715-025-0060.

Second, participating institutions will continue to work toward maximizing course alignment as much as possible with the goal of awarding direct equivalencies for all MTM courses, even when a transferring student has not completed the MTM.

Major Transfer Map: Statewide Articulation Agreement Participants to the Agreement

On March 20, 2025 and by a unanimous vote the Transfer Council recommends this MTM CAP to the Commission for approval.

On April 10, 2025 and by a unanimous vote the Commission approves this MTM CAP. MTM CAP is effective beginning Fall 2025.

On October 9, 2025 and by a unanimous the Commission approves this MTM CAP with modifications recommended by the Transfer Council. Modifications are noted on the last page of this agreement.

Part 5: Major Transfer Map Participants

Subcommittee members:

Jana Prikryl (UO) – Co-Chair
Mike Baltzley (WOU) – Co-Chair
Jennifer Schramm (Chemeketa) – Co-Chair
Tory Blackwell (Clackamas) – Co-Chair
Joe Corsini (EOU)
Nate Bickford (OIT)
Lori Kayes (OSU)
Stefanie Kautz (PSU)
Luis Ruedas (PSU)
Nick Stewart (SOU)
Sascha McKeon (BMCC)
Colin Phifer (Lane)
April Ann Fong (PCC)
Jason Power (SWOCC)
Warren Coffeen (LBCC)
Joe Meyer (TBCC)

Institutional Participants:

Community Colleges	Public Universities
Blue Mountain Community College	Eastern Oregon University
Central Oregon Community College	Oregon State University
Chemeketa Community College	Portland State University
Clackamas Community College	Southern Oregon University
Clatsop Community College	University of Oregon
Klamath Community College	Western Oregon University
Lane Community College	Oregon Institute of Technology
Linn-Benton Community College	
Mt. Hood Community College	
Oregon Coast Community College	
Portland Community College	
Rogue Community College	
Southwestern Oregon Community College	
Treasure Valley Community College	
Umpqua Community College	

Higher Education Coordinating Commission Staff:

Leigh Graziano Office of Academic Policy & Authorization

Brittany Miles Office of Community College & Workforce Development

Part 6: Oregon Transfer Council 2024-2025

David Plotkin, Clackamas CC, Co-Chair

Christopher Long, UO, Co-Chair

Alix Gitelman, OSU

Randi Harris, PSU

Tyler Harris, COCC

Benji Henslee, Mazama High School

Traci Hodgson, Chemeketa CC

Nate Kersey, PSU

Jarrett Gilbert, CGCC

Christopher Walsh, EOU

Tad Shannon, WOU

Ryan Bonn, PCC

Kate Sullivan, LCC

Meredith Stone, WESD

Greg Hamann, Vice Chair HECC Commission (ex-officio)

Design Narrative

The original Biology major transfer map (MTM-MOU) was finalized in 2020, but has yet to be fully implemented due to the significant amount of variance in requirements. The current Biology MTM subcommittee has worked to reduce this variance and make the new biology major transfer map curriculum agreement policy (MTM-CAP) easier to implement. Our work includes:

- **Updating course requirements due to common course numbering efforts:** Writing, math, chemistry and biology courses have all undergone this process as indicated by the addition of “Z” to their course numbers. The majors biology sequence also underwent a number change to BI221Z-223Z.
- **Removal of Variance in Writing Requirements:** The previous version of the biology MTM (MTM-MOU) suggested that students complete either WR122Z or WR227Z. The workgroup determined that while WR227Z fulfilled biology requirements at all OPUs, WR122Z did not. As a result, WR122Z was removed from the MTM and all biology majors will now be required to complete WR227Z.
- **Removal of “Choose 2 out of 3” language for calculus, physics and organic chemistry and clarification of math and science requirements:** The previous version of the MTM required students to choose two of the following series: calculus, physics and organic chemistry. Students and registrars found this choice confusing and limiting to students. To successfully complete the MTM-MOU, students needed to determine which OPU they were planning to attend before MTM-MOU completion to ensure that all courses were credited to their major at the OPU instead of being transferred as electives. To overcome this barrier and act in accordance with MTM legislation, the subcommittee opted to remove the language from the MTM-CAP and separated the math and science requirements with a goal of selecting the highest common requirements for math and science for all OPUs.
 - **Math requirements:** OPUs exhibit variance between their math requirements with some institutions requiring biology majors to take STAT243Z (and some requiring STAT244) while others require MTH251Z and/or MTH252Z. Since this variance is tied to other disciplinary requirements at OPUs, resolving the differences would require significant curricular change. As a result, the subcommittee determined that completion of MTH111Z or higher would meet general education requirements and the completion of MTH112Z or higher would meet major requirements. Students that are more math-ready at the start of their MTM can complete the advanced math that will ultimately be required by their biology major (calculus and/or statistics) while less prepared students can complete the lower level math requirements and still complete the MTM-CAP at their community college. Students are encouraged to use elective credits to complete other math prior to transfer. In the future, the subcommittee would like to explore other avenues to strengthen math pathways within the biology MTM-CAP.
 - **Science requirements:** Due to the limitations in availability of organic chemistry at community colleges and the variance in requirements for organic chemistry at OPUs, the subcommittee recommends including physics, but not organic chemistry for completion of the biology MTM-CAP. Biology students are, generally, required to take both a

physics sequence and organic chemistry to complete their degree. While students can apply a year of physics to a bachelor's degree in biology at all OPUs, the requirements for organic chemistry vary. Some OPUs will accept a full year of 200-level organic chemistry if the student earns a specified score on the American Chemistry Society's organic chemistry exam (actual score varies by institution). Other OPUs will accept a full year of 200-level organic chemistry without the exam, and still others will only accept one term of organic chemistry. All community colleges offer physics, but their offerings of organic chemistry are limited by enrollment and facilities. Students that complete a year of physics at a community college can be confident that all OPUs will count those credits toward major requirements. Students are encouraged to use elective credits to complete organic chemistry prior to transfer. In the future, the subcommittee would like to explore other avenues to allow the inclusion of organic chemistry in the biology MTM-CAP.

Future Work

The Biology MTM workgroup recognizes the importance of math and organic chemistry in biology degrees and, as such, was reluctant to remove these requirements from the MTM. However, significant variance remains in the math and science requirements for biology majors at OPUs. We recommend that OPUs continue to consider requirements for math and science in the biology major, so that the Biology MTM-CAP can be revised to include a higher level math course or series and organic chemistry in future iterations.

We also recommend that the Transfer Council consider developing another biology MTM pathway focused specifically on pre-professional programs. Students planning to enter health professional schools upon completion of their bachelors degree (pre-medical, pre-veterinary, pre-pharmacy, etc) often have more specific requirements for completing their bachelors degree that make them more prepared and competitive for spots in health professional programs. The success and timeline to graduation of these students may be affected should they choose to complete the biology MTM-CAP as currently designed.

This Major Transfer Map Curriculum Articulation Policy (MTM CAP) outlines specific course requirements for students at any participating Oregon community college who plan to transfer to a participating four-year public university and earn a Bachelor of Science in Biology. A completed Core Transfer Map will transfer to any of the 7 Oregon Public Universities (OPU). A complete MTM-CAP will give students all guarantees listed in this MTM CAP at the participating OPUs listed in this agreement. The MTM CAP is intended for students who know they want to transfer and earn a Bachelor of Science in Biology, but who are unsure of their intended transfer destination. Students should work with an advisor to ensure they fulfill the requirements of this major transfer map. Students who are certain of both their major and their intended transfer destination should consult an advisor for information on an existing specific articulation agreement or degree map that will prescribe their course requirements.

Note that in order for a student to successfully transfer to an Oregon public university, students must at a minimum:

1. Earn a grade of a “C-” or better in courses in the major
2. Take courses in the major for a grade— Oregon public universities do not accept “pass/no pass”
3. Earn a cumulative grade point average of 2.0

Minimum grades required for general transfer and for application to major requirements and prerequisites may vary by each Oregon public university and by each degree/major. Each MTM CAP agreement will specifically list the minimum grade requirements that will guarantee transfer including minimum required grades for major courses and Pass/No Pass limitations. All schools accept a grade of a “C -” or better in all general education courses. Students should contact the admissions counselor or intake advisor at the university they intend to transfer to for more information.

Students are strongly encouraged to seek advising before their first term of college and after they have completed the 27-35 credits of the Core Transfer Map (CTM) Requirements. Students should also be aware that if they want to complete an MTM CAP in two years, they should take an average of 45 credits per year, or approximately 15 credits per quarter. Finally, to earn an associate degree, students will need to successfully complete at least 90 credits.

CORE TRANSFER REQUIREMENTS		
<i>See an advisor for recommended courses before your first term</i>		
<i>Writing</i>		
1 st course:	WR 121Z	4
<i>Mathematics</i>		
1 st course:	MTH 111Z or higher (includes STAT 243Z)	4-5
<i>Arts & Letters</i>		
1 st course:	Select from AAOT course list	3-4
2 nd course:	Select from AAOT course list; must have different prefixes	3-4
<i>Natural Sciences</i>		
1 st course	BI 221Z	5

2 nd course	CH 221Z & CH 227Z	5
<i>Social Sciences</i>		
1 st course	Select from AAOT course list	3-4
2 nd course	Select from AAOT course list; must have different prefixes	3-4
<i>At least 1 Core Transfer Requirement course must also satisfy Cultural Literacy outcomes for AAOT</i>		
Core Transfer Requirement Total		30-35
BIOLOGY MAJOR COURSES		
<i>Biology</i>	BI 222Z - 223Z	10
<i>Chemistry</i>	CH222Z - 223Z (& labs CH 228Z - 229Z)	10
<i>Math</i>	MTH112Z or higher	4-5
<i>Physics</i>	Physics (201-203 or 211-213)	12-15
Biology Requirements Total		36-40
ADDITIONAL GENERAL EDUCATION COURSES		
<i>Writing</i>	WR 227Z	4
Additional General Education Total		4
ADDITIONAL COURSES TO REACH 90 CREDITS		
<i>See an advisor for recommended courses</i>		
<i>At this point [above = 70-79 credits], it is recommended students pursue these options:</i>		
1. Take courses that will apply to the major at the Oregon public university of their choice (work with an advisor): <ul style="list-style-type: none"> Students considering a pre-professional degree should take organic chemistry, if possible, prior to transferring. Talk with an advisor about appropriate options. The MTM contains the minimum math required in the Biology major; additional math may be required by the transfer university and should be taken before transferring, if possible. See post-transfer crosswalk for additional math requirements. 		
2. Take courses that will apply to general education or the minor of choice, that will transfer to the Oregon public university of their choice (work with an advisor)		
3. Take electives to reach 90 credits, that will transfer to the Oregon public university of their choice (work with an advisor)		
MTM Total		90

Program Learning Outcomes: Associate of Science Transfer Degree in Biology

Upon completion of the AST in Biology, students will be able to:

1. Apply the process of science to biological phenomena
2. Use quantitative reasoning to present evidence-based arguments
3. Communicate an emerging understanding of the impact of scientific discovery and research on society

15

[illegible]

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Advanced Placement and International Baccalaureate Alignment for Biology MTM

AP Exam Alignment

AP Exam Name	Score	Credit Range	Course Articulations	MTM Major Requirements	Acceptable Level of Alignment	Notes on Acceptable Alignment	Not an Acceptable Level of Alignment	Explanation for Unacceptable Alignment	Learning Outcomes for Unacceptable Alignment
AP Physics C: Electricity and Magnetism	3,4,5	4-5	Score 3: PH 201 (5) GS 104 (4) PH 1XX (5) PH-150 (3) PH 200T (4) GS 1XX (5) PHYS LD Trans (4) PH 202 (5) PH 1XX (4) LDT Credit (4) PHLAB (4) PHY 1xx Elective (4) PH 106 (4) PHY 202 (4) PHY 103 (4) PH LD (lab science credit) (4) PH 202 (5) PH LDT Non-lab science (4) PH 213 (5) PHY 299 (Sci elective) (4) Elective (4) PH 203 (5) Physics (1 course) (4) PH 1XX (4) Score 4: PHY 201 (5) PH 212 (4) PH 203 (5) PH 212 (4) PH 213 (4) GS 2XX (5) PHYS LD Trans (4) PH 212 (5) PH 213 (5) PH 213 (5) PH 213 (5) PHY 2xx Elective (4) PH 213 (4) PHY 222 (4) PH 213 (5) PH 222, 215 (4) PH 212 (5) PH 223 Non-lab science (4) PH 213 (5) PHY 299 (Sci elective) (4) Elective (4) PH 213 (5) PHYS 253 (4) PH 213 (4) Score 5: PHY 201 (5) PH 212 (4) PH 203 (5) PH 212 (4) PH 213 (4) GS 2XX (5) PHYS LD Trans (4) PH 212 (5) PH 213 (5) PH 213 (5) PH 213 (5) PHY 2xx Elective (4) PH 213 (4) PHY 222 (4) PH 213 (5) PH 222, 215 (4) PH 212 (5) PH 223 Non-lab science (4) PH 213 (5) PHY 299 (Sci elective) (4) Elective (4) PH 213 (5) PHYS 253 (4) PH 213 (4)	Physics (201-203 or 211-213)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Evaluated as general Science or elective course at several schools	
AP Physics C: Mechanics	3,4,5	4-5	Score 3: PH 201 (5) GS 104 (4) PH 1XX (5) PH-150 (3) PH 200T (4) GS 1XX (5) PHYS LD Trans (4) PH 201 (5) PH 1XX (4) LDT Credit (4) PHLAB (4) PHY 1xx Elective (4) PH 106 (4) PHY 201 (4) PHY 101 (4) PH LD (lab science credit) (4) PH 201 (5) PH LDT Non-lab science (4) PH 211 (5) PHY 299 (Sci elective) (4) Elective (4) PH 203 (5) Physics (1 course) (4) PH 1XX (4) Score 4: PHY 201 (5) PH 212 (4) PH 201 (5) PH 211 (4) PH 211 (4) GS 2XX (5) PHYS LD Trans (4) PH 211 (5) PH 211 (5) PH 211 (5) PH 211 (5) PHY 2xx Elective (4) PH 211 (4) PHY 221 (4) PHY 211 (5) PH 221, 214 (4) PH 211 (5) PH 221 Non-lab science (4) PH 211 (5) PHY 299 (Sci elective) (4) Elective (4) PH 211 (5) PHYS 251 (4) PH 211 (4) Score 5: PHY 201 (5) PH 212 (4) PH 201 (5) PH 211 (4) PH 211 (4) GS 2XX (5) PHYS LD Trans (4) PH 211 (5) PH 211 (5) PH 211 (5) PH 211 (5) PHY 2xx Elective (4) PH 211 (4) PHY 221 (4) PHY 211 (5) PH 221, 214 (4) PH 211 (5) PH 221 Non-lab science (4) PH 211 (5) PHY 299 (Sci elective) (4) Elective (4) PH 211 (5) PHYS 251 (4) PH 211 (4)	Physics (201-203 or 211-213)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Evaluated as general Science or elective course at several schools	

IB Alignment

IB Course Name	Score	Credit Range	Course Articulations	MTM Major Requirements	Acceptable Level of Alignment	Notes on Acceptable Alignment	Not an Acceptable Level of Alignment	Explanation for Unacceptable Alignment	Learning Outcomes for Unacceptable Alignment
Biology Standard Level	4,5 and above	4-12	Score 4: TBA BI 101 (4) TBA BI101 & 102 (8) BI 211 (4) TBA TBA BIO 101/L, 102/L (5) TBA BI 101 (4) TBA BI 211 (5) BI 101 (4) TBA BI 211 (5) BI LD (4) BI 211 (4) BI LDT (5) BI 201 (4) BI 211 (5) BIOL 211 (5) BIO 211 (5) BI 120T (4) TBA Score 5 and above: TBA BI 221 (5) BI 101, 102, 103 (4) BI 101 & 102 (8) BI 211 (4) TBA TBA BIO 101/L, 102/L (5) BI 221 (4) BI 221 (4) BI 211 (5) BI 211 (5) BI 221 (4) BIO 101, 102 (8) BI 211 (5) BI LD (4) BI 211 (4) BI 211 (5) BI 201 (4) BI 211 (5) BIOL 211 (5) BIO 211 (5) BI 120T (4) BI 211 (5)	BI 221Z - 223Z	<input type="checkbox"/>		<input checked="" type="checkbox"/>	TBA at several schools, inconsistent articulation	
Biology High Level	4,5 and above	12-15	Score 4: TBA BI 101, 102, 103 (12) TBA BI 101, 102 & 103 (12) BI 211, 212, 213 (12) TBA TBA BIO 211/L, 212/L, 213/L (12) BI 221, 222 (8) BI 101, 102, 103 (12) TBA BI 211, 212, 213 (15) BI 101, 102, 103 (12) TBA BI 211, 212, 213 (15) BI LD (12) BI 211 (15) BI 211 (15) BI LD (12) BI 211 (15) BI 201, 202, 203 (12) BI 211, 212, 213 (15) BIOL 211, 212, 213 (15) BI 211, 212, 213 (15) BI 211, 212, 213 (15) TBA Score 5 and above: TBA BI 221, 222, 223 (15) BI 101, 102, 103 (12) BI 101, 102, 103, 112, 120 (12) BI 211, 212, 213 (12) TBA TBA BIO 211/L, 212/L, 213/L (12) BI 221, 222, 223 (12) BI 211, 212, 213 (15) BI 211, 212, 213 (15) BI 211, 212, 213 (15) BIO 211, 212, 213 (12) BI 211, 212, 213 (15) BI 211, 212, 213, 214, 215, 216 (15) BI 211, 212, 213 (12) BI 211, 212, 213 (15) BI 201, 202, 203 (12) BI 211, 212, 213 (15) BIOL 211, 212, 213 (15) BI 211, 212, 213 (15) BI 211, 212, 213 (12) BI 211, BI 212, BI 213 (15)	BI 221Z - 223Z	<input type="checkbox"/>		<input checked="" type="checkbox"/>	TBA at several schools, inconsistent articulation	

AP Exam Alignment									
AP Exam Name	Score	Credit Range	Course Articulations	MTM Major Requirements	Acceptable Level of Alignment	Notes on Acceptable Alignment	Not an Acceptable Level of Alignment	Explanation for Unacceptable Alignment	Learning Outcomes for Unacceptable Alignment
Chemistry Standard Level	4, 5 and above	4-10	Score 4: TBA CH221 (5) TBA CH 104 (5) CH 231, 261 (5) TBA TBA CHE 104/L (5) TBA CH 221 TBA CH 221 (5) CH 231, 261 (5) TBA CH 221 (5) CH 104, 107 (5) CHEM 221 (5) CH LDT(5) CHEM 221 (5) CH 221 (5) CHEM 221 (5) CH 120T (4) TBA Score 5 and above: TBA CH 221 (5) CH 221 (5) CH 221 (5) CH 231, 261 (5) TBA TBA CHE 104/L (5) CH 221 (4) CH 221, CH 222 CH 221 (5) CH 221 (5) CH 231, 232, 261, 262 (10) CHE 101, 104 (4) CH 221 (5) CH 221, 227 (5) CHEM 221 (5) CH 221, 227 (5) CHEM 221 (5) CH 221 (5) CHEM 221 (5) CH 112 (5) CH 120T (4) CH 104 (4)	CH221Z - 223Z	<input type="checkbox"/>		<input checked="" type="checkbox"/>	TBA at several schools, inconsistent articulation	
Chemistry High Level	4, 5 and above	12-15	Score 4: TBA CH 221, 222, 223 (15) TBA CH 221, CH 222, CH 223 (15) CH 231, 232, 233, 261, 262, 263 (15) TBA TBA CHE 221/L, 222/L, 223/L (15) TBA CH 221, CH 222 TBA CH 221, 222, 223 (15) CH 231, 232, 261, 262, CH LDT (12) TBA CH 221, 222, 223 (15) CH 104, 105, 106, 107, 108, 109 (15) CHEM 221, 222, 223 (15) CH LDT(5) CHEM 221, 222, 223 (15) CH 221, 222, 223 (15) CHEM 221, 222, 223 (15) CH 221, 222, 223 (15) CH 221, 222, 223 (15) CH 221, 222, 223 (15) TBA Score 5 and above: TBA CH 221, 222, 223 (15) CH 221, 222, 223 (15) CH 221, CH 222, CH 223 (15) CH 231, 232, 233, 261, 262, 263 (15) TBA TBA CHE 221/L, 222/L, 223/L (15) CH 221, 222, 223 (12) CH 221, CH 222, CH 223 CH 221, 222, 223 (15) CH 221, 222, 223 (15) CH 231, 232, 233, 261, 262, 263 (15) CHE 221, 222, 223 (15) CH 221, 222, 227, 228, 229 (15) CHEM 221, 222, 223 (15) CH 221, 222, 223+Labs 227/228/229(15) CHEM 221, 222, 223 (15) CH 221, 222, 223 (15) CHEM 221, 222, 223 (15) CH 221, 222, 223 (15) CH 221, 222, 223 (12) CH 221, CH 222, 223 (15)	CH221Z - 223Z	<input type="checkbox"/>		<input checked="" type="checkbox"/>	TBA at several schools, inconsistent articulation	
Mathematics: Analysis and Approaches SL	4, 5 and above	4-10	Score 4: TBA MTH 111, 112 (8) TBA MTH 111, 112 (10) TBA TBA TBA MTH 111, 112 (9) TBA TBA TBA MTH 111, 112 (10) MTH 112 (4) TBA MTH 111, MTH 112 (10) Mth 251(4) (additional MTH LD credits OK if needed) MTH 111 (4) MTH LDT (4) MTH 111, 112 (8) MTH 111, 112 (10) MTH 111, 112 (8) MTH 111, 112 (9) MATH 111, 112 (8) TBA Score 5 and above: TBA MTH 111, 112 (8) TBA MTH 111, 112 (10) TBA TBA TBA MTH 111, 112 (9) TBA MTH 111, MTH 112 TBA MTH 111, 112 (10) MTH 112 (4) TBA MTH 111, MTH 112 (10) Mth 251(4) (additional MTH LD credits OK if needed) MTH 111, 251 (9) MTH LDT (4) MTH 111, 112 (8) MTH 111, 112 (10) MTH 111, 112 (8) MTH 111, 112 (10) MATH 111, 112 (8) TBA	MTH 111Z or higher and MTH 112 or higher	<input type="checkbox"/>		<input checked="" type="checkbox"/>	TBA at several schools, inconsistent articulation	
Mathematics: Analysis and Approaches HL	4, 5 and above		Score 4: TBA MTH 112, 243, 251 (12) TBA MTH 112, 243, 251 (14) TBA TBA TBA MTH 111, 112, 251 (13) TBA TBA TBA MTH 112, 243, 251 (14) MTH 251, MTH LDT (12) TBA MTH 112, MTH 243, MTH 251 (14) Mth 251(4) and Mth 252(4) and 4 MTH LD(more MTH LD ok if needed) MTH 111, 112 (8) MTH LDT (8) MTH 112, 243, 251 (12) MTH 112, 243, 251 (14) MTH 112, 243, 251 (12) MTH 251, 252, 253 (13) MATH 111, 112, 251 (12) TBA Score 5 and above: TBA MTH 112, 243, 251 (12) TBA MTH 112, 243, 251 (14) TBA TBA TBA MTH 111, 112, 251 (13) TBA MTH 112, MTH 243, MTH 251 TBA MTH 112, 243, 251 (14) MTH 251, MTH LDT (12) TBA MTH 112, MTH 243, MTH 251 (14) Mth 251(4) and Mth 252 (4) and 4 MTH LD(more MTH LD ok if needed) MTH 111, 112, 243, 251 (17) MTH LDT (8) MTH 112, 243, 251 (12) MTH 112, 243, 251 (14) MTH 112, 243, 251 (12) MTH 251, 252, 253 (13) MATH 111, 112, 251 (12) TBA	MTH 111Z or higher and MTH 112 or higher	<input type="checkbox"/>		<input checked="" type="checkbox"/>	TBA at several schools, inconsistent articulation	

Advanced Placement and International Baccalaureate Alignment for Biology MTM

AP Exam Alignment

AP Exam Name	Score	Credit Range	Course Articulations	MTM Major Requirements	Acceptable Level of Alignment	Notes on Acceptable Alignment	Not an Acceptable Level of Alignment	Explanation for Unacceptable Alignment	Learning Outcomes for Unacceptable Alignment
Mathematics: Applications and Interpretation SL	4,5 and above	4-9	Score 4: TBA MTH 105,111 (8) TBA MTH 105,111 (9) TBA TBA MTH 105, 111 (9) TBA TBA MTH 105,111 (9) MTH 105 (4) TBA MTH 105, MTH 111 (9) Mth 105(4) (additional MTH LD credits OK if needed) MTH105 (4) MTH LDT+QR (4) MTH 105,111 (8) MTH 105,111 (9) MTH 105,111 (8) MTH 105, 111 (9) MATH 105, 111 (8) TBA Score 5 and above: TBA MTH 105,111 (8) TBA MTH 105,111 (9) TBA TBA TBA MTH 105, 111 (9) TBA MTH 105, MTH 111 TBA MTH 105,111 (9) MTH 105 (4) TBA MTH 105, MTH 111 (9) Mth 105(4) (additional MTH LD credits OK if needed) MTH 105, 111 (8) MTH 105 (4) MTH 105,111 (8) MTH 105,111 (9) MTH 105,111 (8) MTH 105,111 (9) MATH 105, 111 (8) TBA	MTH 111Z or higher and MTH 112 or higher	<input type="checkbox"/>		<input checked="" type="checkbox"/>	TBA at several schools, inconsistent articulation	
Mathematics: Applications and Interpretation HL	4,5 and above	8-14	Score 4: TBA MTH 105, 111, 243 (12) TBA MTH 105, 111, 243 (13) TBA TBA TBA MTH 105, 111, 243 (13) TBA TBA TBA MTH 105, 111, 243 (14) MTH 111, 112 and ST 201 (12) TBA MTH 105, MTH 111, MTH 243 (14) Mth 111(4) & Mth 112(4) & Stat 243(4) (additional MTH LD credits OK if needed) MTH 111, 243 (8) MTH LDT+QR (8) MTH 105, 111, 243 (12) MTH 105, 111, 243 (14) MTH 105, 111, 243 (12) MTH 105, 111, 243 (14) MATH 105, 111, 243 (12) TBA Score 5 and above: TBA MTH 105, 111, 243 (12) TBA MTH 105, 111, 243 (13) TBA TBA TBA MTH 105, 111, 243 (13) TBA MTH 105, MTH 111, MTH 243 TBA MTH 105, 111, 243 (14) MTH 111, 112 and ST 201 (12) TBA MTH 105, MTH 111, MTH 243 (14) Mth 111(4) & Mth 112(4) & Stat 243(4) (additional MTH LD credits OK if needed) MTH 111, 112, 243 (12) MTH 105/243 (8) MTH 105, 111, 243 (12) MTH 105, 111, 243 (14) MTH 105, 111, 243 (12) MTH 105, 111, 243 (14) MATH 105, 111, 243 (12) TBA	MTH 111Z or higher and MTH 112 or higher	<input type="checkbox"/>		<input checked="" type="checkbox"/>	TBA at several schools, inconsistent articulation	
Physics SL	4,5 and above	4-5	Score 4: TBA PHY 201 (5) TBA PH 201 (5) PH 201 (5) TBA TBA PHY 101/L (4) TBA TR LDT (4) TBA PHY 201 (4) PH 106 (4) TBA PHY 201 (4) PH 101, 104 (5) PH 201 (5) PH LDT(5) PH LD (5) PHY 201 (4) PHYS 201 (4) PH LDT (4) PHYS 101 (4) TBA Score 5 and above: TBA PHY 201 (5) PH 201 (5) PH 201 (5) PH 201 (5) TBA TBA PHY 101/L (4) PH 201 (5) PH 201 PH 201 (5) PHY 201 (4) PH 201(5) MASC (4) PHY 201 (4) PH 101, 104 (5) PH 201 (5) PH LDT (5) PH LD (5) PHY 201 (4) PHYS 201 (4) PH 201 (5) PHYS 101 (4) PH 201 (4)	Physics (201-203 or 211-213)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	TBA at several schools, inconsistent articulation	
Physice HL	4,5 and above	4-15	Score 4: TBA GS104 (4) TBA PH 201, 202, 203 (15) PH 201, 202, 203 (15) TBA TBA PHY 101/L, 102/L, 103/L (12) TBA TR LDT (4) TBA PHY 201, 202, 203 (12) PH 106, PH LDT (12) TBA PHY 201, 202, 203 (12) PH 201, 202, 203, 214, 215, 216 (15) PH 201, 202, 203 (15) PH LDT(5) PH 201, 202, 203 (15) PHY 201, 202, 203 (12) PHYS 201, 202, 203 (12) PHYS 201, 202, 203 (15) PHYS 201, 202, 203 (12) TBA Score 5 and above: TBA PHY 201, 202, 203 (15) PH 201, 202, 203 (15) PH 201, 202, 203 (15) TBA TBA PHY 201/L, 202/L, 203/L (12) PH 201, 202, 203 (15) PH 201, PH 202, PH 203 PH 201, 202, 203 (15) PHY 201, 202, 203 (12) PH 201, 202, 203 (15) PHY 201, 202, 203 (12) PH 201, 202, 203 (15) PH 201, 202, 203 (12) PH 201, 202, 203 (15) PH LDT (15) PH 201, 202, 203 (15) PHY 201, 202, 203 (12) PHYS 201, 202, 203 (12) PH 201, 202, 203 (15) PHYS 201, 202, 203 (12) PH 201, PH 202, PH 203 (12)	Physics (201-203 or 211-213)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	TBA at several schools, inconsistent articulation	

Row number	Core Transfer Map	CC Credits	EOU <i>Molecular Biology Pathway Only</i>	OIT	OSU	PSU	SOU	UO	WOU
1	Writing-WR 121Z	4	WR 121Z (4 credits)	Writing 121Z (4 credits)	WR 121Z (4 cr)	WR 121Z (4 credits)	1 of 3 Purposeful Learning: First Year Experience (3-4 Credits)	WR 121Z (4 credits)	1 of 2 Foundations: Writing courses
2	Arts & Letters: 2 courses	6-8	Aesthetics and Humanities courses (6-20 credits) Artistic Process and Creation courses (6-8 credits)	2 Humanities courses (6-8 credits)	Arts & Letters: 2 courses (One Global) (6-8 cr)	10 credits of Arts & Letters or Social Science courses (12-16 credits)	1 Creativity & Expression course (3-4 credits) 1 Creativity & Innovation course (3-4 credits)	2 Arts and Letters courses (6-8 credits)	2 of 2 Exploring Knowledge: Literary and Aesthetic Perspectives courses
3	Social Science: 2 courses	6-8	Social Science courses (6-20 credits)	2 Social Science courses (6-8 credits)	Social Science: 2 courses (7-8 cr) *one should be COMM111Z		1 Inquiry and Analysis courses (3-4 credits) 1 Numerical Literacy course (3-4 credits)	2 Social Science courses (6-8 credits)	2 of 2 Exploring Knowledge: Social, Historic, and Civic Perspectives courses
4	Natural Science: BI 221Z, CH 221Z & CH 227Z	10	2 Natural, Mathematical, & Informational Science courses (6-20 credits)	2 Science/ Mathematics courses; lab science requirement met (8-10 credits)	Scientific Inquiry and Analysis BI221Z CH 221Z & CH 227Z (10 cr)		1 of 3 Purposeful Learning: First Year Experience (3-4 Credits)	BI 221Z CH 221Z and 227Z (10 credits)	2 of 2 Exploring Knowledge: Scientific Perspectives courses and courses required by major
5	Math: MTH 111Z or higher	4-5	Graduation requirement - College level mathematics or statistics course (minimum of 3 credits.)	1 Science/ Mathematics course; mathematics requirement met (4-5 credits)	Quantitative Literacy and Analysis (4 cr)	Meets BS Math requirement. (4 credits)	1 Equity, Diversity & Inclusion course (3-4 credits)	BS Counts toward 1 term of requirement for 1 year college level Math (4 credits)	1 of 1 Foundations: Math course
	1 course must also satisfy AAOT Cultural Literacy Requirement		N/A	NA		N/A		Counts as 1 of 2 required Multicultural courses (this section is not assigned any additional credit in the core transfer requirements document)	N/A
6:Sum of 1-5		30- 35	30-35	30-35	30-35	30-35	30-35	30-35	30-35
7	Major and Elective Courses	CC Credits	EOU	OIT	OSU	PSU	SOU	UO	WOU

8	WR 227Z	4	Transfers as Gen Ed (into Gateway) (4)	Meets general education requirement (4)	Writing Elevation Requirement (4)	Meets second part of University Writing Requirement (4)	Meets 1 of 3 Purposeful Learning: First Year Experience courses (4 cr)	Meets Core Ed requirement for WR 122Z or 123 or 227z (4)	1 of 2 Foundations: Writing courses (4)
9	MTH 112Z or higher	4-5	Elective credits* (4) * Math 112 is prereq for Physics, not a requirement for the major	Required for major (4) *Prereq for Physics and Math 251/252	Elective credits* (4) *Prereq for courses required major: MTH 251/252, ST 351/ 352	Elective credits* (4 credits) *Prereq for Physics and Math 251/252 (choice between MTH 251/252 or STAT 243Z/244 for major)	Elective credits* (4-5) *Prereq for required courses: MTH 251	Works towards completing the BI math requirement* (4 OR 4-5?) * Prereq for MATH 246 or 251 (major requirement)	Required for major (4)
10	BI 222Z-223Z	10	3 of 3 courses required by major, BIOL 221z, 222z, 223z plus labs sequence (15) All 3 transfer as Gen Ed	3 of 3 courses required by major in Bio 221z, 222z, 223z sequence (10)	BI222Z and BI223Z (10)*	3 of 3 courses required by major in BI 221Z-223Z sequence (10)	3 of 3 courses required by major in BI 221Z-223Z sequence (10)	3 of 3 courses required for major: BI 221z (row 4), 222z & 223z sequence (10 in addition to 5 from row 4)	Courses required by major (10)
11	CH 222Z/228Z, and 223Z/229Z	10	3 of 3 courses required by major in CHEM 204, 205, 206 sequence (15) All 3 transfer as Gen Ed	3 of 3 courses required by major in CHE 221Z/227Z, 222Z/228Z, 223Z/229Z sequence (10)	CH 222Z/228Z, and 223Z/229Z (10)*	3 of 3 courses required by major in CH 221Z/227Z, 222Z/228Z, 223Z/229Z sequence (10)	3 of 3 courses required by major in CH 221Z/227Z, 222Z/228Z, 223Z/229Z sequence (10)	3 of 3 courses required by major (general chemistry with lab): CH 221z/227z (row 4), 222z/228z & 223/229z (10 credits in addition to 5 from row 4)	Courses required by major (10)
12	Physics 201-203 or 211-213	12-15	PHYS: - 201, 202 & 203 (12) Meets major requirement for 3-course Physics sequence	PHYS: Meets major requirement for 3-course Physics sequence 201, 202, 203, or 221, 221, 223 (12)	Meets major requirement for choice between 3-course Physics or Quantitative track (15)	PHYS: - PHYS 201 or 211/214 (lecture/lab) meets major requirement for PH 201 or 211/214 (4-5) - PHYS 202 or 212 /215 & 203 or 213/216 counts towards the departmental 200-level related science/social science requirement (8-10)	PHYS: Meets major requirement for 3-course Physics sequence (15)	PHYS: PHYS 201, 202 & 203. Meets major requirement for 3-course Physics sequence (201-203 or 251-253) (12-15)	PHYS: Meets major requirement for 3-course Physics sequence in Molecular/Cell Focus area, transfers as lower division elective for other focus areas (12)

13	Additional electives that address major requirements or apply to Gen Ed	11-20	Will apply to gen ed or major requirements, or as electives.	<p>Will apply to gen ed or major requirements, or as electives.</p> <p>Recommended:</p> <ul style="list-style-type: none"> ● WRI 122/127 ● BIO 200 (med term) ● 4-6 credits social science ● 1-3 credits humanities ● 2 credits lower division health bio 	<p>Will apply to gen ed or major requirements, or as electives (13-16 credits to get to 90).</p> <p>Recommended:</p> <ul style="list-style-type: none"> ● MTH 251Z/MTH252Z (8) ● Organic Chemistry (2 terms +Lab) (12) 	<p>Will apply to gen ed or major requirements, or as electives. (13-20 credits to get to 90)</p> <p>Recommended:</p> <p><u>Math: Strongly recommended</u></p> <p><u>Meets major requirement</u>-Choice between</p> <ol style="list-style-type: none"> 1. MTH 251Z/252Z (8 credits or 2. STAT 243Z/244*)(8 credits) <p>*STAT243Z may be required for some pre-professional degrees</p> <p><u>Additional science/social science electives (2-4 credits)</u>: Choose credits from the following departments at the 200 level or higher. ANTH, CH, CS, EES, ESM, DS, G, MTH, PH, PHE, PSY or STAT (total of 12 non BI credits required)</p> <p><u>One term O-Chem lecture required (CH 334)(must take full CC sequence, 12-15 credits)</u></p> <p>Students may take 200 level Organic chemistry at CC & obtain passing score</p>	Will apply to gen ed or major requirements, or as electives.	<p>Will apply to gen ed or major requirements, or as electives. (11-20)</p> <p>Recommended:</p> <ul style="list-style-type: none"> ● MATH up to calc II ● O Chem I ● Arts and Letters equivalent ● Social Science equivalent 	Will apply to gen ed or major requirements, or as electives. (15-20)
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						<p>on the ACS Exam. Meets major requirement for Organic Chemistry and additional credits go towards 200-level related science/social science departmental requirement.</p> <p><u>If no ACS exam or non-passing grade on ACS:</u> 12 credits of LD CHEM will fulfill the remaining 200-level related science/social science departmental requirement.</p>			
14	Completed Major Transfer Map		90	90	90	90	90	90	90

16	Remaining Degree Requirements		EOU	OIT	OSU	PSU	SOU	UO	WOU
17	General Education		<p>20 Credits remaining to complete the General Education Core. These credits can be obtained from any of the categories listed below:</p> <ul style="list-style-type: none"> • Aesthetics and Humanities* • Social Science* • Natural Mathematical & Information Sciences* • Artistic Process and Creation • Gateway (not required) 	SPE 321 (3)	<p>Transitions 100/300 (2)</p> <p>*Must be taken at OSU</p>	Junior Cluster (Univ. Studies) (12)		<p>8-12 credits of Arts & Letters.</p> <p>15 credits total needed to fulfill the requirement</p>	<p>3-4 credits of Foundations: Communication and Language (3-4)</p>

				WRI 227 (3)	Difference Power and Oppression Foundations (3-4)	Sr. Capstone (Univ. Studies) (6)	8 UD credits required, no more than 4 in any one capacity. * Upper division	8-12 credits of Social Science 15 credits total needed to fulfill the requirement	3-4 credits of Foundations: Critical Thinking (3-4)
				WRI 327 (3)	Difference Power and Oppression Advanced (3-4) *upper division	RESR Course (3-4)(may be taken at community college if available, or double dipped with CLUSTER)	1 UD course Equity, Diversity, and Inclusion capacity (3-4)* * Upper division	1 of the above Arts & Letters or Social Science courses should be selected to also fulfill the one remaining Multicultural Requirement no additional credit	4 credits of Foundations: Health Promotion (4)
				4-6 credits social science (4-6)	Seeking Solutions (3-4) *upper division				3-4 credits of Integrating Knowledge: Science, Technology, Society (3-4)* * Upper division
				1-3 credits humanities (1-3)	BI 298 Professional Development for Biologist II (1 credit) /Beyond OSU I				3-4 credits of Integrating Knowledge: Citizenship, Social Responsibility, Global Awareness (3-4)* * Upper division
					Beyond OSU II (0 credits) combined with WIC below				*** <i>First Year seminars requirements is waived</i> <i>student can apply 8 credits of electives</i>
18: sum of all things in row 17	Gen Ed Credits		20	13-18	12-15	18-22	11-12	16-24	16-20

19	Major Requirements		Core requirements: <ul style="list-style-type: none"> MATH 241 Calc (4) BIOL 341/342 Genetics (8) BIOL 357 Ecology(4) BIOL 358 Ecol Lb (1) BIOL 490 Evolut (3) STAT 243Z/ STAT352 (4,4) or STAT 327 (5) CHEM 334 (4)CHEM 335 (4) 33-36 total	Bio 345 (5)	MTH251/252 or MTH227/228 (8 cr)	Area A Course: (Choose ONE/ 4-5 cr) BI 334 Molecular 4 cr BI 336 Cell 5 cr BI 341 Genetics 4 cr	Bi 314 / 331 Physiology (4-5) Bi 340 Genetics (4) Bi 342 Cell Bio (4) Bi 340 Ecology (4) Bi 348 Evolution (4)	BI 214 (5) course number might be changing soon in response to CCN work	BI 314 Genetics (4) BI 315 Cell Biology (4) BI 316 Evolution (4) BI 331 Microbiology (4) BI 343 Biological Data (4) BI 357 General Ecology (4)
			<u>Molecular Biology Concentration (33 credits):</u> <ul style="list-style-type: none"> Chem 450 BioCh (4) BIOL 323 Microbio (5) BIOL 385 Bioinfor (4) BIOL 431 Cell (5) BIOL 445 Immun (3) BIOL 432 An Phys (5) BIOL 462 Cell Ne61 (3) CHEM 336 Org 3 (4) 	Bio 331, 332 & 333 (15)	BI 197 or BI 198 Professional Development for Life Sciences (1)	Area B Course: (Choose ONE/ 4-6cr) BI 320 Intro Physiology 4 cr BI 330 Intro Plant Bio 4 cr BI 380 Microbiology 4 cr BI 386 Invert Zoology 6 cr BI 387 Vert Zoology 6 cr	CHOOSE ONE OPTION <u>CH Option A:</u> CH 331 OCHEM (4), and CH 350 Biochem (4), or BI 346 Biogeochem (3) <u>CH Option B:</u> CH 334, 337, 335 OCHEM for majors (9)	Organic CHEM 331 (4) Ideally student will take a comparable, though lower division, class before transferring	CHOOSE ONE OPTION <u>General Focus: (16-20)</u> <u>Botany Focus: (17-18)</u> <u>Molecular/Cell Focus: (37-57)</u> <u>Natural History Focus: (16-20)</u> <u>Pre-Professional Focus: (19-21)</u> <u>Zoology Focus: (16-20)</u>
				Bio 109, 209 & 409 (5)	BI 314 Cell and Molecular Biology (4 credits)	Area C Courses: (8 cr) BI 357 Ecology 4 cr BI 358 Evolution 4 cr	CAPSTONE: Choose ONE Option (6-8 Cr) <u>Option 1:</u> BI 398 (2), BI 490 (4) <u>Option 2:</u> BI 398 (2) BI 402 (3-4) BI 404 (1-2)	MATH 251/246 and 252/247: calc I and II (if not completed prior to transfer) (0-8)	

							Option 3: BI 398 (2) BI 409 (3) BI 404 (1)		
				CHE 331, 332 & 333 (12)	BI 311 Genetics (4)	Lab/Field Requirement- Choose two courses from list with major lab/field component (2-12)	Math 251 (4) STAT 243Z (4) MATH 252 OR MATH 343 (4)	44 credits of BI approved upper division coursework, binned into often overlapping categories (44)	
				CHE 450, 451 (8)	BI 370 Ecology (3)	Choose 12 credits of coursework from BI 412-499. *some approved 410 courses also count			
				Bio 346 (3)	BB 450, 451 Biochemistry (7)	CH 334 (4 credits) <u>if not satisfied in MTM</u>			
					ST 351, 352 Statistics (8)	STAT 243Z/244 OR MTH 251Z/252Z (8 credits) <u>if not satisfied in MTM</u>			
					BI 445 Evolution (3)				
20: sum of row 19	Major Requirement Credits		66-69	48	50	30-55	45-50	53-61	40-81
21	Major Electives		None	2 credits lower div health bio elective (2)	Take 3 elective courses from 3 bins (9-15; one must have lab)	1–14 cr 300-499 level Bio electives to reach total 44 cr bio UD credit requirement (30-43 UD req classes + 1-14 UD electives)	4 upper division Bio elective courses (14-20)*		Animal Biology elective (4-5)
				21 credits upper division health bio electives (21)	Writing Intensive Course (3-4 credits)/ Beyond OSU II	1 credit Bio elective (100-499) to reach 60 total Biology credits (15+44+1)			Field Biology elective (4-5)
									Plant Biology elective (4-5)
22: sum of row 21	Major Elective Credits		0	23	12-19	2-15	14-20	0	12-15
23: Sum of rows 18, 20, 22	Remaining Gen Ed + Major Requirements + Major Electives Credit Total		86-89	84-89	74 - 84	63-79	71 - 82	69-85	68-116
24: 90 cr minus row 23	Additional Electives		1-4	1-6	6-16	11-27	8-19	5-21	0-22

25: Sum of row 23 and 15	Degree Total		180	180	180	180	180	180	180
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Pre-Transfer Crosswalk for Blue Mountain Community College AST Biology

DRAFT

Per OAR 715-025-0040, this program must be available at BMCC by Fall 2027. Note the ability for BMCC to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	PHL 102 or 103 and MUS 205, 206, or 207	8
Social Sciences (2 courses)* *must have two different course prefixes	SOC 204Z or 205Z and PSY 201Z	8
Natural Sciences (2 courses)	BI 221Z and CH 221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher	4
Cultural Literacy (1 course)	HIST 203	4
CTM Total		38
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher	4
Physics	PHY 201-203 or PHY 221-223	15
Major Coursework Total		39
Electives Needed to Reach 90 (Students will work with an advisor to select appropriate coursework)		9
MTM Total		90

Pre-Transfer Crosswalk for Central Oregon Community College AST Biology

*****DRAFT*****

****Per OAR 715-025-0040, this program must be available at COCC by Fall 2027. Note the ability for COCC to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.****

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	List of Arts and Letters General Education Approved Courses @ COCC	6-8
Social Sciences (2 courses)* *must have two different course prefixes	List of Social Science General Education Approved Courses @ COCC	6-8
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher	4-5
Cultural Literacy (1 course) * One of the Arts and Letters or Social Science courses chosen must also satisfy the cultural literacy requirement	List of Cultural Literacy General Education Approved Courses @ COCC	
CTM Total		30-35
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher	4-5

Physics	PH 201, 202, 203 or PH 211, 212, 213	15
Major Coursework Total		39-40
Electives Needed to Reach 90 (Students will work with an advisor to select appropriate coursework)		11-17
MTM Total		90

Pre-Transfer Crosswalk for Chemeketa Community College AST Biology

*****DRAFT*****

*****Per OAR 715-025-0040, this program must be available at Chemeketa by Fall 2027. Note the ability for Chemeketa to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.*****

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	Choose courses from Chemeketa's AAOT Course List	8
Social Sciences (2 courses)* *must have two different course prefixes	Choose courses from Chemeketa's AAOT Course List	8
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher	4-5
Cultural Literacy (1 course)	Choose courses with the CL indicator from Chemeketa's AAOT Course List	4
CTM Total		30-35
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher	4-5
Physics	Lecture: PH201–PH203 OR PH211–PH213 AND Lab (must be concurrently enrolled with lecture):	15

	PH214–PH216	
Major Coursework Total		39-40
Electives Needed to Reach 90 (Students will work with an advisor to select appropriate coursework)		11-17
MTM Total		90

DRAFT

Pre-Transfer Crosswalk for Clackamas Community College AST Biology

*****DRAFT*****

****Per OAR 715-025-0040, this program must be available at Clackamas by Fall 2027. Note the ability for Clackamas to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.****

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	Choose any two Arts and Letters courses that meet the AAOT degree requirements	6-8
Social Sciences (2 courses)* *must have two different course prefixes	Choose any two Social Science courses that meet the AAOT degree requirements	6-8
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher	4
Cultural Literacy (1 course)	One course must also meet the AAOT Cultural Literacy requirement	
CTM Total		30-34
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher	4-5
Physics	PH201/202/203 or PH211/212/213	15
Major Coursework Total		39-40
Electives Needed to Reach 90 (Students will work with an advisor to select appropriate coursework numbered 100		12-17

or above)	
MTM Total	90

DRAFT

Pre-Transfer Crosswalk for Clatsop Community College AST Biology

*****DRAFT*****

***Per OAR 715-025-0040, this program must be available at Clatsop by Fall 2027.
Note the ability for Clatsop to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.***

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	Any two courses must have two different course prefixes. AAOT Discipline Requirements Clatsop CC.htm	8
Social Sciences (2 courses)* *must have two different course prefixes	Any two courses must have two different course prefixes. AAOT Discipline Requirements Clatsop CC.htm	8
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher AAOT Discipline Requirements Clatsop CC.htm	4-5
Cultural Literacy (1 course)	Any course that has been approved for Cultural Literacy and is not used to meet another degree requirement. AAOT Discipline Requirements Clatsop CC.htm	4
CTM Total		38-39
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher AAOT Discipline Requirements Clatsop CC.htm	4-5
Physics	PH 201, PH 202, PH 203 or PH 211, PH 212, and PH 213	12-15

Major Coursework Total	36-40
Electives Needed to Reach 90 <i>(Students will work with an advisor to select appropriate coursework)</i> AAOT Discipline Requirements Clatsop CC.htm	
MTM Total	90

DRAFT

Pre-Transfer Crosswalk for Klamath Community College AST Biology

Per OAR 715-025-0040, this program must be available at KCC by Fall 2027. Note the ability for KCC to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.

CORE TRANSFER MAP		
Writing (1 course)	WRI 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	https://catalog.klamathcc.edu/preview_program.php?catoid=20&poid=1797&returnto=1508#:~:text=Functions%204.00%20credits-,Arts%20and%20Letters,-Students%20must%20complete	6
Social Sciences (2 courses)* *must have two different course prefixes	https://catalog.klamathcc.edu/preview_program.php?catoid=20&poid=1797&returnto=1508#:~:text=III%204.00%20credits-,Social%20Sciences,-Students%20must%20complete	6
Natural Sciences (2 courses)	BIO 221Z and CHE 221Z/227Z	10
Mathematics (1 course)	MTH 111Z, MTH 112Z, MTH 251Z, STA 243Z	4
Cultural Literacy (1 course)	https://catalog.klamathcc.edu/preview_program.php?catoid=20&poid=1797&returnto=1508#:~:text=Lab%201.00%20credits-,Cultural%20Literacy,-At%20least%20one	3
CTM Total		33
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WRI 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BIO 222Z-223Z	10
Chemistry	CHE 222Z/228Z and CHE 223Z/229Z	10
Math	MTH 112Z, MTH 251Z, STA 243Z	4
Physics	PHY 211/211L, PHY 212/212L, and PHY 213/213L	15

<i>Major Coursework Total</i>	39
<i>Electives Needed to Reach 90</i> <i>(Students will work with an advisor to select appropriate coursework)</i>	14 (min)
<i>MTM Total</i>	90

Pre-Transfer Crosswalk for Lane Community College AST Biology

*****DRAFT*****

Per OAR 715-025-0040, this program must be available at LCC by Fall 2027. Note the ability for LCC to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	Choose two from the Arts & Letters list	8
Social Sciences (2 courses)* *must have two different course prefixes	Choose two from the Social Science list	8
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher	4-5
Cultural Literacy (1 course)	One of the CTM courses must meet Cultural Literacy; view courses on the lists marked with "CL"	4
CTM Total		30-35
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher	4-5
Physics	PH 201, 202, 203 or PH 211, 212, and 213	15
Major Coursework Total		39-40

<i>Electives Needed to Reach 90</i> <i>(Students will work with an advisor to select appropriate coursework)</i>	11-17
<i>MTM Total</i>	90

DRAFT

Pre-Transfer Crosswalk for Linn-Benton Community College

AST Biology

DRAFT

Per OAR 715-025-0040, this program must be available at LBCC by Fall 2027. Note the ability for LBCC to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	Any Arts and Letters course	8
Social Sciences (2 courses)* *must have two different course prefixes	Any Social Science course	8
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher	4-5
Cultural Literacy (1 course)	Any Cultural Literacy course	4
CTM Total		38-39
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher	4-5
Physics	PH 201, 202, and 203 or PH 211, 212, and 213	15
Major Coursework Total		39-40
Electives Needed to Reach 90 (Students will work with an advisor to select appropriate coursework)		7-9
MTM Total		90

Pre-Transfer Crosswalk for Mt Hood Community College AST Biology

DRAFT

****Per OAR 715-025-0040, this program must be available at MHCC by Fall 2027. Note the ability for MHCC to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.****

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	Select from Arts & Letters Course List	6-8
Social Sciences (2 courses)* *must have two different course prefixes	Select from Social Sciences Course List	6-8
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher	4-5
Cultural Literacy (1 course)	At least 1 Core Transfer Requirement course must satisfy Cultural Literacy Outcomes for AAOT	0-4
CTM Total		30-39
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher	4-5
Physics	Choose one sequence: PH201 & PH202 & PH203 Or PH221 & PH222 & PH223	15

Major Coursework Total	39-40
Electives Needed to Reach 90 (Students will work with an advisor to select appropriate coursework)	11-21
MTM Total	90

DRAFT

Pre-Transfer Crosswalk for Oregon Coast Community College AST Biology

*****DRAFT*****

****Per OAR 715-025-0040, this program must be available at OCCC by Fall 2027. Note the ability for OCCC to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.****

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	COMM111Z Select one course from the catalog that is not a Communications course.	8
Social Sciences (2 courses)* *must have two different course prefixes	Select two courses from the catalog	8
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 112Z	4
Cultural Literacy (1 course)	*Choose a course in Arts & Letters or Social Sciences (categories above) that meets this requirement.	
CTM Total		34
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 251Z	5
Physics	PHY201-203	12

<i>Major Coursework Total</i>	37
<i>Electives Needed to Reach 90</i> <i>(Students will work with an advisor to select appropriate coursework)</i>	15
<i>MTM Total</i>	90

Pre-Transfer Crosswalk for Portland Community College AST Biology

*****DRAFT*****

Per [OAR 715-025-0040](#), this program must be available at Portland Community College by Fall 2027.

Note the ability for Portland Community College to offer the AST Biology degree requires additional internal and external approval prior to implementation, including NWCCU.

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)	Any 2 General Education Arts and Letters courses from 2 different subject areas	6-10
Social Sciences (2 courses)	Any 2 General Education Social Sciences courses from 2 different subject areas	8
Natural Sciences (2 courses)	BI 221Z and CH222Z+227Z	10
Mathematics (1 course)	MTH 111Z or any higher MTH or STAT course	4-5
<i>One of these courses must also satisfy the AAOT Cultural Literacy requirement</i>		
CTM Total		32-37
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z BI 223Z	10
Chemistry	CH 222Z+CH 228Z CH 223Z+CH 229Z	10
Math	MTH 112Z or any higher MTH or STAT course	4-5
Physics	PHY 201 or PHY 211	12-15

	PHY 202 or PHY 212 PHY 203 or PHY 213	
Major Coursework Total		36-40
Electives Needed to Reach 90 <i>(Students will work with an advisor to select appropriate coursework)</i> Students considering a pre-professional degree should take organic chemistry prior to transfer, if possible Additional mathematics and/or statistics coursework may be required depending on transfer university and should be taken prior to transfer, if possible		9-18
MTM Total		90

Pre-Transfer Crosswalk for Rogue Community College AST Biology

*****DRAFT*****

Per [OAR 715-025-0040](#), this program must be available at Rogue Community College by Fall 2027.

Note the ability for Rogue Community College to offer AST Biology requires additional internal and external approval prior to implementation, including NWCCU.

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	AAOT-approved courses	3-4
	AAOT-approved courses	3-4
Social Sciences (2 courses)* *must have two different course prefixes	AAOT-approved courses	3-4
	AAOT-approved courses	3-4
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher (including STAT 243Z)	4-5
<i>One of these courses must also satisfy the AAOT Cultural Literacy requirement</i>		
CTM Total		30-35
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10

Math	MTH 112Z or higher	4-5
Physics	PH 201, 201L, 201R, 202, 202L, 202R, 203, 203L, 203R	10
Major Coursework Total		34-35
Electives Needed to Reach 90 (Students will work with an advisor to select appropriate coursework)		6-12
MTM Total		90

Pre-Transfer Crosswalk for Southwestern Oregon Community College AST Biology

*****DRAFT*****

****Per OAR 715-025-0040, this program must be available at SWOCC by Fall 2027. Note the ability for SWOCC to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.****

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	PHL 101, 102, or 103 HUM 204, 205, or 206 ENG 104, 105, 106, 107, 108, or 109	8
Social Sciences (2 courses)* *must have two different course prefixes	SOC 204Z, 205Z, or 206Z PSY 201Z or 202Z	8
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher	4-5
Cultural Literacy (1 course)	ANTH 221, 222, 223, 230, 231, or 232	4
CTM Total		38-39
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	8
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher	4
Physics	PH 201, PH 202, PH 203	15
Major Coursework Total		37
Electives Needed to Reach 90 (Students will work with an advisor to select appropriate coursework)		10-11
MTM Total		90

Suggested Electives:

- SOC 205Z
- SOC 206Z
- SOC 208
- SOC 218
- SOC 213
- SOC 228
- ANTH 230
- ANTH 231
- ANTH 232
- GS 108
- STAT 243Z

Pre-Transfer Crosswalk for Treasure Valley Community College AST Biology

DRAFT

Per OAR 715-025-0040, this program must be available at TVCC by Fall 2027. Note the ability for TVCC to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	Select from Arts & Letters Course List	6-8
Social Sciences (2 courses)* *must have two different course prefixes	Select from Social Sciences Course List	6-8
Natural Sciences (2 courses)	BI 221Z and CH221Z/227Z	10
Mathematics (1 course)	MTH 111Z or higher	4-5
Cultural Literacy (1 course)	At least 1 Core Transfer Requirement course must satisfy Cultural Literacy Outcomes for AAOT	0-4
CTM Total		30-39
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher	4-5
Physics	PH 221, 222, 223	15
Major Coursework Total		73-83

<i>Electives Needed to Reach 90</i> <i>(Students will work with an advisor to select appropriate coursework)</i>	7-17
<i>MTM Total</i>	90

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Pre-Transfer Crosswalk for Umpqua Community College AST Biology

DRAFT

****Per OAR 715-025-0040, this program must be available at UCC by Fall 2027. Note the ability for UCC to offer this degree requires additional internal and external approval prior to implementation, including NWCCU.****

UCC [Approved Course Listing](#)

CORE TRANSFER MAP		
Writing (1 course)	WR 121Z	4
Arts & Letters (2 courses)* *must have two different course prefixes	Any two Arts and Letters courses from the Approved Course Listing. Courses must be from two different disciplines.	6-8
Social Sciences (2 courses)* *must have two different course prefixes	Any two Social Science courses from the Approved Course Listing. Courses must be from two different disciplines.	6-8
Natural Sciences (2 courses)	BI 221Z, CH221Z(lec) and CH 227Z(lab)	10
Mathematics (1 course)	MTH 111Z or higher	4-5
Cultural Literacy (1 course)	One of the A&L or SocSci courses above must have a #CL attribute.	0
CTM Total		30-35
ADDITIONAL GENERAL EDUCATION COURSES		
Writing	WR 227Z	4
Additional GE Course Total		4
MAJOR COURSEWORK		
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z/228Z and CH223Z/229Z	10
Math	MTH 112Z or higher	4
Physics	Choose either PH 201 - 203 or PH 211 - 213	15

Major Coursework Total	39
Electives Needed to Reach 90 (Students will work with an advisor to select appropriate coursework)	12-17
MTM Total	90

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Appendix A: Notes & Approved Modifications

NOTES

1. CIP Code: 26.0101
2. CIP 7 = ^

TRANSFER COUNCIL & COMMISSION APPROVED MODIFICATIONS (OAR 715-025-0055)

- 2025-02-20: Revisions to CAP Policy Template and Course Development Template.
- 2025-03-20: Revisions to Pre-Transfer Crosswalk to include NWCCU language. Approved language was added to all submitted crosswalks.
- 2025-08-21: Tillamook Bay Community College notification of dropped programs; removed as a participant in this agreement.