

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Atmosphere and Climate Concentration

Washtenaw Community College Courses:

Eastern Michigan University Courses:

Michigan Transfer Agreement (MTA) Requirements (31-34 credits)

Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one Perspectives on a Diverse World course, one Learning Beyond the Classroom experience, and a Writing Intensive course in the major. Courses listed below for the MTA also satisfy program requirements at EMU and/or WCC. Students without an MTA endorsement must complete EMU's general education program.

1. A course in English Composition

Choose one from the approved MTA list.....3-4 General Transfer Credit.....3-4

2. A course in English Composition or Communication

Choose one from the approved MTA list.....3 General Transfer Credit.....3

3. A course in Mathematics

* Choose one from the following:.....5-7 Program mathematics requirement5-7
 MTH 176 College Algebra (4) + MTH 178 Gen Trig (3) MATH 105 College Algebra (3) and MATH 107 (2)
 MTH 180 Precalculus (5) MATH 105 College Algebra (3) and MATH 107 (2)
 MTH 191 Calculus I (5) MATH 120 Calculus I (4)

4. Two courses in Natural Sciences from different disciplines (one lab required)

* BIO 161 General Biology | Ecology and Evolution.....4 BIO 120/121 Intro Biology: Evolution & Ecology (5)-14
 * GLG114 Physical Geology and Lab.....4 ESSC 110 The Dynamic Earth System4

5. Two courses in Humanities and Fine Arts from different disciplines

Choose one from the approved MTA list.....3 General Transfer Credit.....3
 * PHL 241 Environmental Ethics.....3 PHIL 229 Environmental Ethics3

6. Two courses in Social Sciences from different disciplines

Choose one from the approved MTA list.....3 General Transfer Credit.....3
 1 GEO 101 World Regional Geography3 GEOG 110 World Regions.....3

WCC Environmental Science Program Requirements (30-32 credits)

2 BIO 162 General Biology II Cells and Molecules.....4	BIO 110/111 Intro to Biology: Cells & Molecules (5)-14
* CEM 111 General Chemistry.....4	CHEM 121/122 General Chemistry I.....4
* CEM 122 General Chemistry II.....4	CHEM 123/124 General Chemistry II.....4
* ENV 101 Introduction to Environmental Science & Lab4	ENVI 107 Environmental Science4
1 * ENV 105 Introduction to Environment and Society.....3	ENVI 105 Introduction to Environment & Society.....3
* GLG 276 Principles of Geographic Informational Systems...3	GEOG 276 Principles of Geographic Information Systems...3
* Choose one from: PHY 111 or PHY 2114-5	PHY 221 or PHY 223 <u>sub for PHY 207/227 or PHY 217/227</u>4-5
* Choose one from: PHY 122 or PHY 2224-5	PHY 222 or PHY 224 <u>sub for PHY 208/228 or PHY 218/228</u>4-5

EMU Requirements and Electives that may be Taken at WCC or EMU (9-14 credits)

Open Elective Credit9-14 General Transfer Credit.....9-14

2 *Atmosphere and Climate Concentration Restricted Electives courses that transfer include: MTH 192 (4), MTH 197 (4), MTH 293 (4), MTH 295 (4), CEM 211(4)*

Credits at WCC:.....75 Credits that transfer to EMU75

*Required for EMU's BS in BS in Environmental Science and Society, Interdisciplinary Program program. If not transferred, must be completed at EMU.

1 Satisfies EMU's Perspectives on a Diverse World requirement

2 Satisfies credit toward the 10 credits of restricted electives in the Atmosphere and Climate Concentration.

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Atmosphere and Climate Concentration

Completion of the BS in Environmental Science and Society, Interdisciplinary Program: Atmosphere and Climate Concentration

Major Requirements (45 credits)

Required Courses (4 credits)

¹ ENVI 305W Current Topics in Environmental Science	3
ENVI 405 Capstone Seminar	1

Required Concentration Courses (23-25 credits)

CHEM 283 Intro to Analytical Chemistry	3
CHEM 284 Intro to Analytical Chemistry Lab	1
ESSC 212 Weather, Climate, and the Earth System	3
ESSC 300 Introduction to Hydrology	3
ESSC 324 Weather	3
¹ ESSC 424W Climate Change	3
ESSC 485 Introduction to Remote Sensing	3
STAT 360 Statistical Methods	3
² Choose one: ENVI 487L4, 488L4, 497L6, 498L6, 499L6	1-3

Restrictive Elective Concentration Courses (6 credits)

Choose 6 credits from the following (credit may transfer in):

BIO 310, CHEM 270 or CHEM 371, CHEM 415 or ESSC 422,
COSC 120 or COSC 145, ENVI 497L6, ²ENVI 498L6, ²ENVI 499L6,
ESSC 111, ESSC 320, ESSC 325, ESSC 327, ESSC 370,
ESSC 422, ESSC 425, ESSC 448, GEOG 376, GEOG 476,
MATH 121, MATH 122, MATH 223, MATH 325

General Elective Credit (10-12 credits)

Students must complete a minimum of 45 credits at EMU.

Minimum Credits at EMU: 45

Transfer Credits: 75

Minimum Credits to Graduate: 120

¹ Satisfies EMU's Writing Intensive requirement

² Satisfies EMU's Learning Beyond the Classroom requirement

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Environmental Biology Concentration

Washtenaw Community College Courses:

Eastern Michigan University Courses:

Michigan Transfer Agreement (MTA) Requirements (31-34 credits)

Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one Perspectives on a Diverse World course, one Learning Beyond the Classroom experience, and a Writing Intensive course in the major. Courses listed below for the MTA also satisfy program requirements at EMU and/or WCC. Students without an MTA endorsement must complete EMU's general education program.

1. A course in English Composition

Choose one from the approved MTA list.....3-4 General Transfer Credit.....3-4

2. A course in English Composition or Communication

Choose one from the approved MTA list.....3 General Transfer Credit.....3

3. A course in Mathematics

*Choose one from the following:.....5-7 Program mathematics requirement5-7
 MTH 176 College Algebra (4) + MTH 178 Gen Trig (3) MATH 105 College Algebra (3) and MATH 107 (2)
 MTH 180 Precalculus (5) MATH 105 College Algebra (3) and MATH 107 (2)
 MTH 191 Calculus I (5) MATH 120 Calculus I (4)

4. Two courses in Natural Sciences from different disciplines (one lab required)

* BIO 161 General Biology | Ecology and Evolution.....4 BIO 120/121 Intro Biology: Evolution & Ecology (5)-1.....4
 * GLG114 Physical Geology and Lab.....4 ESSC 110 The Dynamic Earth System4

5. Two courses in Humanities and Fine Arts from different disciplines

Choose one from the approved MTA list.....3 General Transfer Credit.....3
 * PHL 241 Environmental Ethics.....3 PHIL 229 Environmental Ethics3

6. Two courses in Social Sciences from different disciplines

Choose one from the approved MTA list.....3 General Transfer Credit.....3
¹ GEO 101 World Regional Geography3 GEOG 110 World Regions3

WCC Environmental Science Program Requirements (30-31 credits)

* BIO 162 General Biology II Cells and Molecules.....4	BIO 110/111 Intro to Biology: Cells & Molecules (5)-1.....4
* CEM 111 General Chemistry I.....4	CHEM 121/122 General Chemistry I.....4
* CEM 122 General Chemistry II.....4	CHEM 123/124 General Chemistry II.....4
* CEM 211 Organic Chemistry I.....4	CHEM 371 Organic Chemistry I (3) +1.....4
* ENV 101 Introduction to Environmental Science & Lab.....4	ENVI 107 Environmental Science.....4
¹ * ENV 105 Introduction to Environment and Society.....3	ENVI 105 Introduction to Environment & Society.....3
* GLG 276 Principles of Geographic Informational Systems..3	GEOG 276 Principles of Geographic Information Systems.3
* Choose one from: PHY 111 or PHY 211.....4-5	PHY 221 or PHY 223 <i>sub for PHY 207/227 or PHY 217/227</i>4-5

EMU Requirements and Electives that may be Taken at WCC or EMU (10-14 credits)

Open Elective Credit10-14 General Transfer Credit.....10-14

Credits at WCC:.....75 Credits that transfer to EMU.....75

**Required for EMU's BS in BS in Environmental Science and Society, Interdisciplinary Program. If not transferred, must be completed at EMU.*

¹ Satisfies EMU's Perspectives on a Diverse World requirement.

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Environmental Biology Concentration

Completion of the Environmental Science and Society, Interdisciplinary Program: Environmental Biology Concentration

Major Requirements (45 credits)

Required Courses (4 credits)

¹ ENVI 305W Current Topics in Environmental Science	3
ENVI 405 Capstone Seminar	1

Required Concentration Courses (14-16 credits)

BIO 310 Ecology.....	3
¹ BIO 311W Laboratory in Ecology.....	4
ESSC 212 Weather, Climate, and the Earth System	3
STAT 360 Statistical Methods	3
² Choose one: ENVI 487L4, 488L4, 497L6, 498L6, 499L6	1-3

Restrictive Elective Concentration Courses (18 credits)

Students must complete 18 credits. Students will choose at minimum 15 credits from group A and the remaining 3 credits can be from either group:

Group A:

BIO 402, 410, 412, 413, 414, 415, 416, 417, 418, 419, 433,
455, 456, 457, 458, 480, 481, 482, 483, 484, 485, 486, 488,
²497L6, ²498L6, ²499L6

Group B:

CHEM 283 and CHEM 284, 332, 411, 412, 413,
CHEM 415 or ESSC 422, ESSC 111, 229, 250, 300, 325, 327,
448, 450, 459, GEOG 376, GEOG 476, PHY 208 or PHY 218

General Elective Credit (7-9 credits)

Students must complete a minimum of 45 credits at EMU.

Minimum Credits at EMU: 45

Transfer Credits: 75

Minimum Credits to Graduate: 120

¹ Satisfies EMU's Writing Intensive requirement

² Satisfies EMU's Learning Beyond the Classroom requirement

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Environmental Chemistry Concentration

Washtenaw Community College Courses:	Eastern Michigan University Courses:
Michigan Transfer Agreement (MTA) Requirements (31-34 credits)	
Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one Perspectives on a Diverse World course, one Learning Beyond the Classroom experience, and a Writing Intensive course in the major. <u>Courses listed below for the MTA also satisfy program requirements at EMU and/or WCC.</u> Students without an MTA endorsement must complete EMU's general education program.	
1. A course in English Composition	
Choose one from the approved MTA list.....3-4	General Transfer Credit.....3-4
2. A course in English Composition or Communication	
Choose one from the approved MTA list.....3	General Transfer Credit.....3
3. A course in Mathematics	
* Choose one from the following:.....5-7	Program mathematics requirement5-7
MTH 176 College Algebra (4) + MTH 178 Gen Trig (3)	MATH 105 College Algebra (3) and MATH 107 (2)
MTH 180 Precalculus (5)	MATH 105 College Algebra (3) and MATH 107 (2)
MTH 191 Calculus I (5)	MATH 120 Calculus I (4)
4. Two courses in Natural Sciences from different disciplines (one lab required)	
* BIO 161 General Biology Ecology and Evolution.....4	BIO 120/121 Intro Biology: Evolution & Ecology (5)-1.....4
* GLG114 Physical Geology and Lab.....4	ESSC 110 The Dynamic Earth System4
5. Two courses in Humanities and Fine Arts from different disciplines	
Choose one from the approved MTA list.....3	General Transfer Credit.....3
* PHL 241 Environmental Ethics.....3	PHIL 229 Environmental Ethics3
6. Two courses in Social Sciences from different disciplines	
Choose one from the approved MTA list.....3	General Transfer Credit.....3
¹ GEO 101 World Regional Geography3	GEOG 110 World Regions3
WCC Environmental Science Program Requirements (30- 32 credits)	
* BIO 162 General Biology II Cells and Molecules4	BIO 110/111 Intro to Biology: Cells & Molecules (5)-14
* CEM 111 General Chemistry I.....4	CHEM 121/122 General Chemistry I.....4
* CEM 122 General Chemistry II.....4	CHEM 123/124 General Chemistry II4
* ENV 101 Introduction to Environmental Science & Lab4	ENVI 107 Environmental Science4
¹ * ENV 105 Introduction to Environment and Society3	ENVI 105 Introduction to Environment & Society3
* GLG 276 Principles of Geographic Informational Systems...3	GEOG 276 Principles of Geographic Information Systems...3
* Choose one from: PHY 111 or PHY 2114-5	PHY 221 or PHY 223 <u>sub for PHY 207/227 or PHY 217/227</u>4-5
* Choose one from: PHY 122 or PHY 2224-5	PHY 222 or PHY 224 <u>sub for PHY 208/228 or PHY 218/228</u>4-5
EMU Requirements and Electives that may be Taken at WCC or EMU (9-14 credits)	
* CEM 211 Organic Chemistry I (4) and	
* CEM 222 Organic Chemistry II (4).....8	CHEM 371/372/373 Organic Chemistry I, II and Lab (9)-1....8
Open Elective Credit1-6	General Transfer Credit.....1-6
Credits at WCC:.....75	Credits that transfer to EMU75

*Required for EMU's BS in BS in Environmental Science and Society, Interdisciplinary Program. If not transferred, must be completed at EMU.

¹ Satisfies EMU's Perspectives on a Diverse World requirement.

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Environmental Chemistry Concentration

Completion of the Environmental Science and Society, Interdisciplinary Program: Environmental Chemistry Concentration

Major Requirements (45 credits)

Required Courses (4 credits)

¹ ENVI 305W Current Topics in Environmental Science	3
ENVI 405 Capstone Seminar	1

Required Concentration Courses (19-23 credits)

CHEM 283 Introduction to Analysis Chemistry	3
CHEM 284 Introduction to Analysis Chemistry Lab	1
CHEM 332 Fundamentals of Bioinorganic Chemistry	2
CHEM 415 Environmental Chemistry	3
ESSC 212 Weather, Climate, and the Earth System	3
STAT 360 Statistical Methods	3
Choose one: CHEM 383W or CHEM 481 and CHEM 483.....	3-5
² Choose one: ENVI 487L4, 488L4, 497L6, 498L6, 499L6	1-3

Restrictive Elective Concentration Courses (8 credits)

Choose 8 credits from the following:

BIO 305, 1306W, 310, 1311W, 410; CHEM 411, 412, 413, 451, 452, 1453W,
²488L4, ²489L4; ²ENVI 497L6, 498L6, 499L6; ESSC 228 or ESSC 229,
 ESSC 300, 320, 327, 448

General Elective Credit (10-14 credits)

Students must complete a minimum of 45 credits at EMU.

Minimum Credits at EMU: 45

Transfer Credits: 75

Minimum Credits to Graduate: 120

¹ Satisfies EMU's Writing Intensive requirement

² Satisfies EMU's Learning Beyond the Classroom requirement

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Environmental Geoscience Concentration

Washtenaw Community College Courses:

Eastern Michigan University Courses:

Michigan Transfer Agreement (MTA) Requirements (31-34 credits)

Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one Perspectives on a Diverse World course, one Learning Beyond the Classroom experience, and a Writing Intensive course in the major. Courses listed below for the MTA also satisfy program requirements at EMU and/or WCC. Students without an MTA endorsement must complete EMU's general education program.

1. A course in English Composition

Choose one from the approved MTA list.....3-4 General Transfer Credit.....3-4

2. A course in English Composition or Communication

Choose one from the approved MTA list.....3 General Transfer Credit.....3

3. A course in Mathematics

* Choose one from the following:.....5-7 Program mathematics requirement5-7
 MTH 176 College Algebra (4) + MTH 178 Gen Trig (3) MATH 105 College Algebra (3) and MATH 107 (2)
 MTH 180 Precalculus (5) MATH 105 College Algebra (3) and MATH 107 (2)
 MTH 191 Calculus I (5) MATH 120 Calculus I (4)

4. Two courses in Natural Sciences from different disciplines (one lab required)

* BIO 161 General Biology | Ecology and Evolution.....4 BIO 120/121 Intro Biology: Evolution & Ecology (5)-14
 * GLG114 Physical Geology and Lab.....4 ESSC 110 The Dynamic Earth System4

5. Two courses in Humanities and Fine Arts from different disciplines

Choose one from the approved MTA list.....3 General Transfer Credit.....3
 * PHL 241 Environmental Ethics.....3 PHIL 229 Environmental Ethics3

6. Two courses in Social Sciences from different disciplines

Choose one from the approved MTA list.....3 General Transfer Credit.....3
¹ GEO 101 World Regional Geography3 GEOG 110 World Regions3

WCC Environmental Science Program Requirements (26-27 credits)

* BIO 162 General Biology II Cells and Molecules.....4 BIO 110/111 Intro to Biology: Cells & Molecules (5)-14
 * CEM 111 General Chemistry I.....4 CHEM 121/122 General Chemistry I4
 * CEM 122 General Chemistry II.....4 CHEM 123/124 General Chemistry II4
 * ENV 101 Introduction to Environmental Science & Lab4 ENVI 107 Environmental Science4
¹ * ENV 105 Introduction to Environment and Society3 ENVI 105 Introduction to Environment & Society3
 * GLG 276 Principles of Geographic Informational Systems ..3 GEOG 276 Principles of Geographic Information Systems ..3
 * Choose one from: PHY 111 or PHY 2114-5 PHY 221 or PHY 223 _{sub for PHY 207/227 or PHY 217/227}4-5

EMU Requirements and Electives that may be Taken at WCC or EMU (14-18 credits)

Open Elective Credit14-18 General Transfer Credit.....14-18

² Environmental Geoscience Concentration Restricted Elective courses that transfer: PHY 122 (4) or PHY 222 (5), CEM 211 (4)

Credits at WCC:.....75 Credits that transfer to EMU75

* Required for EMU's BS in BS in Environmental Science and Society, Interdisciplinary Program. If not transferred, must be completed at EMU.

¹ Satisfies EMU's Perspectives on a Diverse World requirement.

² Satisfies credit toward the 10 credits of restricted electives in the Environmental Geoscience Concentration.

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Environmental Geoscience Concentration

Completion of the Environmental Science and Society, Interdisciplinary Program: Environmental Geoscience Concentration

Major Requirements (45 credits)

Required Courses (4 credits)

¹ ENVI 305W Current Topics in Environmental Science	3
ENVI 405 Capstone Seminar	1

Required Concentration Courses (28-31 credits)

ESSC 111 The Earth System Through Time	4
ESSC 212 Weather, Climate and the Earth System	3
ESSC 300 Introduction to Hydrology	3
ESSC 330 Sedimentology and Stratigraphy	4
ESSC 422 Environmental Geochemistry	3
STAT 360 Statistical Methods	3
Choose one: ESSC 228 or ESSC 229	3-4
Choose one: ESSC 325 or ESSC 327	4
² Choose one: ENVI 487L4, 488L4, 497L6, 498L6, 499L6	1-3

Restrictive Elective Concentration Courses (10 credits)

Students will complete 2 courses from group A at minimum; the remaining courses can be from either group.

Group A:

² ENVI 497L6, ² 498L6, ² 499L6; ESSC 320, 324, 326, 329, 331, 448, 450, 355, 370, 455, 466W, 485, 487L4

Group B:

BIO 310; CHEM 270 or CHEM 371, CHEM 283 and CHEM 284, PHY 208 or PHY 218

General Elective Credit (0-3 credits)

Students must complete a minimum of 45 credits at EMU.

Credits at EMU: 45

Transfer Credits: 75

Minimum Credits to Graduate: 120

¹ Satisfies EMU's Writing Intensive requirement

² Satisfies EMU's Learning Beyond the Classroom requirement

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Water Quality Concentration

Washtenaw Community College Courses:

Eastern Michigan University Courses:

Michigan Transfer Agreement (MTA) Requirements (31-34 credits)

Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one Perspectives on a Diverse World course, one Learning Beyond the Classroom experience, and a Writing Intensive course in the major. Courses listed below for the MTA also satisfy program requirements at EMU and/or WCC. Students without an MTA endorsement must complete EMU's general education program.

1. A course in English Composition

Choose one from the approved MTA list.....3-4 General Transfer Credit.....3-4

2. A course in English Composition or Communication

Choose one from the approved MTA list.....3 General Transfer Credit.....3

3. A course in Mathematics

* Choose one from the following:.....5-7 Program mathematics requirement5-7

MTH 176 College Algebra (4) + MTH 178 Gen Trig (3) MATH 105 College Algebra (3) and MATH 107 (2)

MTH 180 Precalculus (5) MATH 105 College Algebra (3) and MATH 107 (2)

MTH 191 Calculus I (5) MATH 120 Calculus I (4)

4. Two courses in Natural Sciences from different disciplines (one lab required)

* BIO 161 General Biology | Ecology and Evolution.....4 BIO 120/121 Intro Biology: Evolution & Ecology (5)-14

* GLG114 Physical Geology and Lab.....4 ESSC 110 The Dynamic Earth System4

5. Two courses in Humanities and Fine Arts from different disciplines

Choose one from the approved MTA list.....3 General Transfer Credit.....3

* PHL 241 Environmental Ethics.....3 PHIL 229 Environmental Ethics3

6. Two courses in Social Sciences from different disciplines

Choose one from the approved MTA list.....3 General Transfer Credit.....3

¹ GEO 101 World Regional Geography.....3 GEOG 110 World Regions3

WCC Environmental Science Program Requirements (26-27 credits)

* BIO 162 General Biology II Cells and Molecules.....4 BIO 110/111 Intro to Biology: Cells & Molecules (5)-14

* CEM 111 General Chemistry I.....4 CHEM 121/122 General Chemistry I4

* CEM 122 General Chemistry II.....4 CHEM 123/124 General Chemistry II4

* ENV 101 Introduction to Environmental Science & Lab4 ENVI 107 Environmental Science4

¹ * ENV 105 Introduction to Environment and Society3 ENVI 105 Introduction to Environment & Society3

* GLG 276 Principles of Geographic Informational Systems..3 GEOG 276 Principles of Geographic Information Systems..3

* Choose one from: PHY 111 or PHY 2114-5 PHY 221 or PHY 223 *sub for PHY 207/227 or PHY 217/227*4-5

EMU Requirements and Electives that may be Taken at WCC or EMU (14-18 credits)

Open Elective Credit14-18 General Transfer Credit.....14-18

Credits at WCC:.....75 Credits that transfer to EMU75

**Required for EMU's BS in BS in Environmental Science and Society, Interdisciplinary Program. If not transferred, must be completed at EMU.*

¹ Satisfies EMU's Perspectives on a Diverse World requirement.

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Water Quality Concentration

Completion of the Environmental Science and Society, Interdisciplinary Program: Water Quality Concentration

Major Requirements (42-44 credits)

Required Courses (4 credits)

¹ ENVI 305W Current Topics in Environmental Science.....	3
ENVI 405 Capstone Seminar	1

Required Concentration Courses (28-30 credits)

BIO 410 Limnology	4
CIVE 350 Environmental Engineering	3
ESSC 111 The Earth System Through Time	4
ESSC 212 Weather, Climate, and the Earth System	3
ESSC 300 Introduction to Hydrology.....	3
ESSC 448 Hydrogeology	4
STAT 360 Statistical Methods	3
Choose one: CHEM 415 or ESSC 422	3
² Choose one: ENVI 487L4, 488L4, 497L6, 498L6, 499L6	1-3

Restrictive Elective Concentration Courses (10 credits)

Choose 10 credits from the following:

BIO 310, 1311W, 320, 321, 413, 415, 456; CHEM 283, 284;
²CSIE 125L2 or ²ENVI 125L2; ²ENVI 497L6, ²498L6, ²499L6; ESSC 228,
 320, 325, 330, 370, 450, 455, 460, ESSC 485 or GEOG 376

General Elective Credit (1-3 credits)

Students must complete a minimum of 45 credits at EMU.

Credits at EMU: 45

Transfer Credits: 75

Minimum Credits to Graduate: 120

¹ Satisfies EMU's Writing Intensive requirement

² Satisfies EMU's Learning Beyond the Classroom requirement

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary**

Program: Environment and Society Concentration

Washtenaw Community College Courses:

Eastern Michigan University Courses:

Michigan Transfer Agreement (MTA) Requirements (30-31 credits)

Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one Perspectives on a Diverse World course, one Learning Beyond the Classroom experience, and a Writing Intensive course in the major. Courses listed below for the MTA also satisfy program requirements at EMU and/or WCC. Students without an MTA endorsement must complete EMU's general education program.

1. A course in English Composition

Choose one from the approved MTA list.....3-4 General Transfer Credit.....3-4

2. A course in English Composition or Communication

Choose one from the approved MTA list.....3 General Transfer Credit.....3

3. A course in Mathematics

* MTH 160 Basic Statistics4 STAT 170 Elementary Statistics (3)+14

4. Two courses in Natural Sciences from different disciplines (one lab required)

* BIO 161 General Biology | Ecology and Evolution.....4 BIO 120/121 Intro Biology: Evolution & Ecology (5)-14

* GLG 114 Physical Geology and Lab.....4 ESSC 110 The Dynamic Earth System4

5. Two courses in Humanities and Fine Arts from different disciplines

Choose one from the approved MTA list.....3 General Transfer Credit.....3

* PHL 241 Environmental Ethics.....3 PHIL 229 Environmental Ethics3

6. Two courses in Social Sciences from different disciplines

Choose one from the approved MTA list.....3 General Transfer Credit.....3

¹* GEO 101 World Regional Geography3 GEOG 110 World Regions3

WCC Environmental Science Program Requirements (29 credits)

BIO 162 General Biology II Cells and Molecules.....4 BIO 110/111 Intro to Biology: Cells & Molecules (5)-14

* CEM 111 General Chemistry I.....4 CHEM 121/122 General Chemistry I4

CEM 122 General Chemistry II.....4 CHEM 123/124 General Chemistry II & Lab.....4

* ENV 101 Introduction to Environmental Science & Lab4 ENVI 107 Environmental Science4

¹ * ENV 105 Introduction to Environment and Society3 ENVI 105 Introduction to Environment & Society3

* ENV 200 Introduction to Sustainability.....3 ENVI 000 sub for GEOG 150 (restricted elective).....3

* GLG 276 Principles of Geographic Informational Systems..3 GEOG 276 Principles of Geographic Information Systems..3

Open Elective Credit4 General Transfer Credit.....4

EMU Requirements and Electives that may be Taken at WCC or EMU (15-16 credits)

Open Elective Credit15-16 General Transfer Credit.....15-16

Credits at WCC:.....75 Credits that transfer to EMU.....75

**Required for EMU's BS in BS in Environmental Science and Society, Interdisciplinary Program. If not transferred, must be completed at EMU.*

¹ Satisfies EMU's Perspectives on a Diverse World requirement.

ARTICULATION AGREEMENT GUIDEWashtenaw Community College – **AS in Environmental Science**Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary****Program: Environment and Society Concentration****Completion of the Environmental Science and Society, Interdisciplinary Program:
Environment and Society Concentration****Major Requirements (30 credits)****Required Courses (4 credits)**

¹ ENVI 305W Current Topics in Environmental Science	3
ENVI 405 Capstone Seminar	1

Required Concentration Courses (13-15 credits)

ESSC 495 Environmental Assessment and Planning	3
HIST 416 American Environmental History	3
PHIL 448 Environmental Values, Justice, and Policy	3
PLSC 381 Public Policy Analysis	3
² Choose one: ENVI 487L4, 488L4, 497L6, 498L6, 499L6	1-3

Restrictive Elective Concentration Courses (12 credits)

Choose 12 credits from the following, with at least 3 courses at the 300 level or above:

CNST 440; CRM 229; ECON 336; ²ENVI 497L, ²498L6, 499L6;
 HLED 230; LITR 275, 465; PHIL 220, 224, 225, 280, ¹355W, ¹420W, ¹424W,
¹425W, ¹427W, ¹429W, ¹480W, ¹481W; PLSC 202, 270, 275, 330, 332, 342,
 364, 435; URP 215, 216, 306, 452, 456; ¹WRTG 310W

General Elective Credit (14-16 credits)

Students must complete a minimum of 45 credits at EMU.

Credits at EMU: 45**Transfer Credits: 75****Minimum Credits to Graduate: 120**¹ Satisfies EMU's Writing Intensive requirement² Satisfies EMU's Learning Beyond the Classroom requirement

ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Environmental Science**

Eastern Michigan University – **BS in Environmental Science and Society, Interdisciplinary Program**

Additional Information:

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both institutions agree to accept transferable courses from each other and from other regionally accredited institutions. WCC courses indicated with an * are required for EMU's Environmental Science and Society, Interdisciplinary Program. Substitutions for these courses must be approved by the EMU program coordinator.
2. Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one "Perspectives on a Diverse World" course, one "Learning Beyond the Classroom" experience, and a "Writing Intensive" course in the major. The Perspectives on a Diverse World requirement may be transferred to EMU.
To use the Michigan Transfer Agreement (MTA), students must have an official community college transcript, with the "MTA Satisfied" endorsement sent to EMU's Admissions Office. Students who do not have "MTA Satisfied" on their community college transcript, will be required to satisfy EMU's general education requirements as applied to transfer students. The MTA may be completed after admission to EMU, however, students should inform their advisors or they may be advised to complete additional courses for the general education program. If already on the transcript, the MACRAO designation will be accepted at EMU after August 2019.
3. Only courses with a grade of "C" or better (2.0 on a 4.0 scale) will be accepted for transfer to either institution.
4. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 45 credit hours must be completed in EMU courses, with at least 15 hours in the program at the 300-level or above. Of the last 30 hours completed before graduating, a minimum of 10 credit hours must be in courses offered by EMU. A minimum of 120 credit hours, completed in-residence or accepted in transfer, is required for graduation.
5. Students must satisfy all admission requirements at the time of application for admission to EMU, including submitting transcripts from all previously attended colleges. WCC students will receive equal consideration with other students for course registration and financial aid.
6. Students are encouraged to contact EMU's Undergraduate Admissions Office before applying to EMU. To facilitate advising and the evaluation of transcripts, bring a copy of this articulation guide to all advising sessions.

Review and Renewal Date: September 1, 2025 until August 31, 2028.

This agreement is consistent with the 2025-2026 catalog. Students have until summer 2033 to graduate from Eastern Michigan University following this agreement. In the event that a student does not complete the program within seven years, they may be required to have their credits reevaluated using the requirements of the current articulation guide.

Contacts:

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Eastern Michigan University

Undergraduate Admissions
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[Schedule an appointment](#)