

**From:** [Osborne, Jeanne](#)  
**To:** [Smith, Randy](#)  
**Cc:** [Reed, Katie](#); [Meadows, Kendyl](#); [Violet, Cynthia A.](#); [Roe, Brian](#); [Neal, Steve](#); [Gerber, Carri](#)  
**Subject:** Requesting CAA Approval for ATI Environment and Natural Resources - AS, Natural Resource Management Specialization Revision  
**Date:** Friday, November 8, 2019 1:13:32 PM  
**Attachments:** [image001.png](#)  
[combined file ENV-NRM 19-20.pdf](#)

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Dear Dr. Smith,

The College of Food, Agricultural, and Environmental Sciences is requesting Council on Academic Affairs approval for a minor revision to the Environment and Natural Resources – AS Natural Resources Management Specialization program offered at Ohio State ATI as outlined in the attached document. We are requesting that these changes be made effective Autumn 2020. The proposed change – adding BIOLOGY 1114 as an option to meet the Natural Sciences GE requirement in the major – aligns this program with the corresponding BS degree program in the School of Environment and Natural Resources. There is no change in the overall credits required for the major, and since the modification is very minor, may not require a full review by CAA at your discretion.

This proposal has been approved by the Academic Affairs Committee of Ohio State ATI and by the College Academic Affairs Committee. Please let me know if any additional information is needed in support of this request.

Sincerely,

Jeanne



*Jeanne M. Osborne*

Assistant Dean for Academic Affairs  
College of Food, Agricultural, and Environmental Sciences  
100E Agricultural Administration, 2120 Fyffe Rd.  
Columbus, OH 43210  
Tel: 614-292-1734  
Fax: 614-292-1218  
e-mail: [Osborne.2@osu.edu](mailto:Osborne.2@osu.edu)



October 21, 2019

Ms. Jeanne Osborne  
Assistant Dean for Academic Programs  
100E Agricultural Administration Building  
2120 Fyffe Rd  
Columbus, OH 43210

Dear Ms. Osborne,

Enclosed please find the proposed revision to the curriculum plan and course sequence for the Associate of Science Environment and Natural Resources program Natural Resource Management specialization submitted for consideration by the FAES Academic Affairs Committee.

The proposed revision to the Associate of Science Environment and Natural Resources program was developed by the program coordinator. A Biology course option was added to the Natural Resource Management specialization. There were no changes to the Environmental Science specialization. The overall credits for the degree remained the same. This curricular change aligns the Biology requirement for students wishing to pursue the Bachelor of Science Environmental Policy and Decision Making program. The following is the rationale for the curricular change:

- **Add BIO 1114 Bio Sci: Form, Function, Diversity, and Ecology as a choice for the Natural Resource Management specialization:**

The School of Environment and Natural Resources changed the Biology course required for the Bachelor of Science Environmental Policy and Decision Making program. Previously, Biology 1113 was required. As of AU19, Biology 1114 is now required. At Ohio State ATI, the Environment and Natural Resources program Natural Resource Management specialization feeds into School of Environment and Natural Resources' Bachelor of Science Natural Resource Management, Environment, Economy, Development, and Sustainability, and Environmental Policy and Decision Making programs. The proposed program will direct students interested in Natural Resource Management or Environment, Economy, Development, and Sustainability to BIO 1113 and students interested in Environmental Policy and Decision Making to BIO 1114.

- BIO 1113 and BIO 1114 are both 4 credit hour courses. The proposed change does not alter the total credit load. Both courses involve a 3-hour laboratory session; hence, the proposed change does not diminish laboratory exposure.

In the course sequencing, the Biology options were moved to SP year 2. The elective courses were adjusted between the AU and SP year 2.

The proposed changes to the current curriculum plan and course sequence for the Associate of Science Environment and Natural Resources program Natural Resource Management specialization were approved by the Arts, Science, and Business Division at Ohio State ATI and the Ohio State ATI Academic Affairs committee. Ohio State ATI is committed to protecting the academic progress of students. This program change will not disrupt progress toward degree for students enrolled in this degree program. Course substitutions and manual management of the degree audits will occur as needed for students enrolled in this degree program during the transition. When appropriate, coursework completed by students under the current degree program will be utilized for completion of the proposed degree program.

Enclosed please find the following documents:

- Current curriculum plan and course sequence for the Associate of Science Environment and Natural Resources program Natural Resource Management specialization
- Proposed curriculum plan and course sequence for the Associate of Science Environment and Natural Resources program Natural Resource Management specialization

Please let me know if there are questions, or if additional information or documentation is required to accompany this submission. We look forward to hearing from the FAES Academic Affairs Committee regarding next steps in the approval process.

Sincerely,

A handwritten signature in cursive script that reads "Carri A. Gerber".

Carri A. Gerber  
Assistant Director, Academic Affairs

**ASSOCIATE OF SCIENCE DEGREE  
ENVIRONMENT AND NATURAL RESOURCES CURRICULUM PLAN  
Natural Resource Management Specialization**

Ohio State ATI		Major: Natural Resource Management	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
<b>ENGLISH COMPOSITION/ ORAL COMMUNICATION</b> ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01	3
	3	ENR 2367	3
<b>MATHEMATICS/ STATISTICS AND LOGIC</b> MATHEMATICS	4-5	MATH 1148	4
<b>ARTS AND HUMANITIES</b> Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	Choose 3 of the following courses: HISTORY 1152 COMPSTD 2301* MUSIC 2250* RELSTDS 2370*	3 3 3
<b>SOCIAL AND BEHAVIORAL SCIENCES</b> Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3	AEDECON 2001	3
	3	RURLSOC 1500	3
<b>NATURAL SCIENCES</b>	min. 6	BIOLOGY 1113 CHEM 1110	4 5
Additional OTM course(s) (from 5 GE categories above)  or Open Option (course(s) as defined by OSU Columbus major)		ENR 2100	3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201.01T	0.5
		ENVSCT 1201T	0.5
<b>Total General Education</b>	<b>37-40</b>	<b>Total General Education</b>	<b>38</b>
Transferable and major courses applicable to OSU bachelor's degree  Developed in consultation with affiliated department/unit where appropriate		COMLDR 3537 ENGTECH 2050T ENR 2300 ELECTIVES	3 3 3 13/14
		<b>Transferable and Major courses</b>	<b>22-23</b>
<b>DEGREE TOTAL</b>	<b>60-65</b>	<b>DEGREE TOTAL</b>	<b>60-61</b>

\*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ASSOCIATE OF SCIENCE DEGREE  
ENVIRONMENT AND NATURAL RESOURCES CURRICULUM PLAN  
Natural Resource Management Specialization**

Ohio State ATI		Major: Natural Resource Management	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
<b>ENGLISH COMPOSITION/ ORAL COMMUNICATION</b> ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01 ENR 2367	3
	3		3
<b>MATHEMATICS/ STATISTICS AND LOGIC</b> MATHEMATICS	4-5	MATH 1148	4
<b>ARTS AND HUMANITIES</b> Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	Choose 3 of the following courses: HISTORY 1152 COMPSTD 2301* MUSIC 2250* RELSTDS 2370*	3 3 3
<b>SOCIAL AND BEHAVIORAL SCIENCES</b> Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3	AEDECON 2001 RURLSOC 1500	3
	3		3
<b>NATURAL SCIENCES</b>	min. 6	<b>BIOLOGY 1113** or BIOLOGY 1114***</b> CHEM 1110	4 5
Additional OTM course(s) (from 5 GE categories above)  or Open Option (course(s) as defined by OSU Columbus major)		ENR 2100	3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201.01T	0.5
		ENVSCT 1201T	0.5
<b>Total General Education</b>	<b>37-40</b>	<b>Total General Education</b>	<b>38</b>
Transferable and major courses applicable to OSU bachelor's degree  Developed in consultation with affiliated department/unit where appropriate		COMLDR 3537 ENGTECH 2050T ENR 2300 ELECTIVES	3 3 3 13/14
		<b>Transferable and Major courses</b>	<b>22-23</b>
<b>DEGREE TOTAL</b>	<b>60-65</b>	<b>DEGREE TOTAL</b>	<b>60-61</b>

\*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

\*\* NRM and EED majors take Biology 1113; \*\*\* - EPDM majors take Biology 1114

**ASSOCIATE OF SCIENCE DEGREE  
ENVIRONMENT AND NATURAL RESOURCES CURRICULUM PLAN  
Natural Resource Management Specialization**

<b>Ohio State ATI</b>		<b>Major: Natural Resource Management</b>	
<b>General Education</b>		<b>General Education</b>	
Subject	Sem Cr	Course	Sem Cr.
<b>ENGLISH COMPOSITION/ ORAL COMMUNICATION</b> ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01 ENR 2367	3
	3		3
<b>MATHEMATICS/ STATISTICS AND LOGIC</b> MATHEMATICS	4-5	MATH 1148	4
<b>ARTS AND HUMANITIES</b> Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	Choose 3 of the following courses: HISTORY 1152 COMPSTD 2301* MUSIC 2250* RELSTDS 2370*	3 3 3
<b>SOCIAL AND BEHAVIORAL SCIENCES</b> Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3	AEDECON 2001 RURLSOC 1500	3
	3		3
<b>NATURAL SCIENCES</b>	min. 6	BIOLOGY 1113** or BIOLOGY 1114*** CHEM 1110	4 5
Additional OTM course(s) (from 5 GE categories above)  or Open Option (course(s) as defined by OSU Columbus major)		ENR 2100	3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201.01T	0.5
		ENVSCT 1201T	0.5
<b>Total General Education</b>	<b>37-40</b>	<b>Total General Education</b>	<b>38</b>
Transferable and major courses applicable to OSU bachelor's degree  Developed in consultation with affiliated department/unit where appropriate		COMLDR 3537 ENGTECH 2050T ENR 2300 ELECTIVES	3 3 3 13/14
		<b>Transferable and Major courses</b>	<b>22-23</b>
<b>DEGREE TOTAL</b>	<b>60-65</b>	<b>DEGREE TOTAL</b>	<b>60-61</b>

\*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

\*\* NRM and EED majors take Biology 1113; \*\*\* - EPDM majors take Biology 1114



<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b><u>1<sup>st</sup> Year – Autumn Semester</u></b>		
ENGLISH 1110.01	First-Year English Composition	3
ENR 2100	Introduction to Environmental Science	3
ENVSCT 1201T	Exploring Environmental Sciences	0.5
GENSTDS 1201.01T	College Orientation	0.5
MATH 1148	College Algebra	4
ARTS/HUMANITIES	COMPSTD 2301 or HISTORY 1152 or MUSIC 2250 or RELSTDS 2370	<u>3</u> <b>14</b>
<b><u>1<sup>st</sup> Year – Spring Semester</u></b>		
CHEM 1110	Elementary Chemistry	5
ENR 2367	Communicating Environmental and Natural Resources Information	3
RURLSOC 1500	Introduction to Rural Sociology	3
ELECTIVE	From approved List	<u>3/4</u> <b>14-15</b>
<b><u>2<sup>nd</sup> Year – Autumn Semester</u></b>		
AEDECON 2001	Principles of Food and Resource Economics	3
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
COMLDR 3537	Data Analysis in the Applied Sciences	3
ENR 2300	Society and Natural Resources	3
ARTS/HUMANITIES	COMPSTD 2301 or HISTORY 1152 or MUSIC 2250 or RELSTDS 2370	<u>3</u> <b>16</b>
<b><u>2<sup>nd</sup> Year – Spring Semester</u></b>		
ARTS/HUMANITIES	COMPSTD 2301 or HISTORY 1152 or MUSIC 2250 or RELSTDS 2370	3
ENGTECH 2050T	Introduction to Geographic Information Systems	3
ELECTIVE	From approved List	<u>10</u> <b>16</b>
<b>Total Credits</b>		<b>60-61</b>

**Electives for Natural Resources Management (NRM) BS Major****Minimum of 19 credits required**

9 hours MUST	HISTORY 1152 American Civilization since 1877	3
come from:	COMPSTD 2301 Introduction to World Literature	3
Arts & Humanities	MUSIC 2250 Music Cultures of the World	3
	RELSTDS 2370 Introduction to Comparative Religion	3
BUSTEC 2231T	Fundamentals of Marketing	3
BUSTEC 2247T	Business Law	3
BUSTEC 2249T	Fundamentals of Business Finance	3
*CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Lab	1
HCS 2201	Ecology of Managed Plant Systems	4
PLNTPTH 3001	General Plant Pathology Lecture	3

**Electives for Environmental Policy and Decision Making (EPDM) BS Major****Minimum of 19 credits required**

9 hours MUST	HISTORY 1152 American Civilization since 1877	3
come from:	COMPSTD 2301 Introduction to World Literature	3
Arts & Humanities	MUSIC 2250 Music Cultures of the World	3
	RELSTDS 2370 Introduction to Comparative Religion	3
*CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Lab	1
ENGTECH 2040T	Soil and Water Conservation Systems	4

**Electives for Environment, Economy, Development, and Sustainability (EEDS) BS Major****Minimum of 19 credits required**

9 hours MUST	HISTORY 1152 American Civilization since 1877	3
come from:	COMPSTD 2301 Introduction to World Literature	3
Arts & Humanities	MUSIC 2250 Music Cultures of the World	3
	RELSTDS 2370 Introduction to Comparative Religion	3
BUSTEC 2231T	Fundamentals of Marketing	3
BUSTEC 2247T	Business Law	3
BUSTEC 2249T	Fundamentals of Business Finance	3
*CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Lab	1

\* CRPSOIL 2300T fulfills the Additional Science option for the BS major





<u>Course</u>	<u>Title</u>	<u>Credits</u>
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**1<sup>st</sup> Year – Autumn Semester**

ENGLISH 1110.01	First-Year English Composition	3
ENR 2100	Introduction to Environmental Science	3
ENVSCT 1201T	Exploring Environmental Sciences	0.5
GENSTDS 1201.01T	College Orientation	0.5
MATH 1148	College Algebra	4
ARTS/HUMANITIES	COMPSTD 2301 or HISTORY 1152 or MUSIC 2250 or RELSTDS 2370	<u>3</u> <b>14</b>

**1<sup>st</sup> Year – Spring Semester**

CHEM 1110	Elementary Chemistry	5
ENR 2367	Communicating Environmental and Natural Resources Information	3
RURLSOC 1500	Introduction to Rural Sociology	3
ELECTIVE	From approved List	<u>3/4</u> <b>14-15</b>

**2<sup>nd</sup> Year – Autumn Semester**

AEDECON 2001	Principles of Food and Resource Economics	3
<b>BIOLOGY 1113</b>	<del>Bio Sci: Energy Transfer and Development</del>	<u>4</u>
COMLDR 3537	Data Analysis in the Applied Sciences	3
ENR 2300	Society and Natural Resources	3
ARTS/HUMANITIES	COMPSTD 2301 or HISTORY 1152 or MUSIC 2250 or RELSTDS 2370	<u>3</u>
<b>ELECTIVE</b>	<b>From approved List</b>	<u>3</u> <b>16-15</b>

**2<sup>nd</sup> Year – Spring Semester**

ARTS/HUMANITIES	COMPSTD 2301 or HISTORY 1152 or MUSIC 2250 or RELSTDS 2370	3
<b>BIOLOGY 1113* or</b>	<b>Bio Sci: Energy Transfer and Development</b>	<u>4</u>
<b>BIOLOGY 1114**</b>	<b>Bio Sci: Form, Function, Diversity, and Ecology</b>	
ENGTECH 2050T	Introduction to Geographic Information Systems	3
ELECTIVE	From approved List	<u>10-6-7</u> <b>16-17</b>

**Total Credits      60-61**

\* - NRM and EEDS majors take Biology 1113

\*\* - EPDM majors take Biology 1114

**Electives for Natural Resources Management (NRM) BS Major****Minimum of 19 credits required**

9 hours MUST	HISTORY 1152 American Civilization since 1877	3
come from:	COMPSTD 2301 Introduction to World Literature	3
Arts & Humanities	MUSIC 2250 Music Cultures of the World	3
	RELSTDS 2370 Introduction to Comparative Religion	3
BUSTEC 2231T	Fundamentals of Marketing	3
BUSTEC 2247T	Business Law	3
BUSTEC 2249T	Fundamentals of Business Finance	3
*CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Lab	1
HCS 2201	Ecology of Managed Plant Systems	4
PLNTPTH 3001	General Plant Pathology Lecture	3

**Electives for Environmental Policy and Decision Making (EPDM) BS Major****Minimum of 19 credits required**

9 hours MUST	HISTORY 1152 American Civilization since 1877	3
come from:	COMPSTD 2301 Introduction to World Literature	3
Arts & Humanities	MUSIC 2250 Music Cultures of the World	3
	RELSTDS 2370 Introduction to Comparative Religion	3
*CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Lab	1
ENGTECH 2040T	Soil and Water Conservation Systems	4

**Electives for Environment, Economy, Development, and Sustainability (EEDS) BS Major****Minimum of 19 credits required**

9 hours MUST	HISTORY 1152 American Civilization since 1877	3
come from:	COMPSTD 2301 Introduction to World Literature	3
Arts & Humanities	MUSIC 2250 Music Cultures of the World	3
	RELSTDS 2370 Introduction to Comparative Religion	3
BUSTEC 2231T	Fundamentals of Marketing	3
BUSTEC 2247T	Business Law	3
BUSTEC 2249T	Fundamentals of Business Finance	3
*CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Lab	1

\* CRPSOIL 2300T fulfills the Additional Science option for the BS major



## Associate of Science

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<b><u>1<sup>st</sup> Year – Autumn Semester</u></b>		
ENGLISH 1110.01	First-Year English Composition	3
ENR 2100	Introduction to Environmental Science	3
ENVSCT 1201T	Exploring Environmental Sciences	0.5
GENSTDS 1201.01T	College Orientation	0.5
MATH 1148	College Algebra	4
ARTS/HUMANITIES	COMPSTD 2301 or HISTORY 1152 or MUSIC 2250 or RELSTDS 2370	<u>3</u>
		<b>14</b>
<b><u>1<sup>st</sup> Year – Spring Semester</u></b>		
CHEM 1110	Elementary Chemistry	5
ENR 2367	Communicating Environmental and Natural Resources Information	3
RURLSOC 1500	Introduction to Rural Sociology	3
ELECTIVE	From approved List	<u>4</u>
		<b>15</b>
<b><u>2<sup>nd</sup> Year – Autumn Semester</u></b>		
AEDECON 2001	Principles of Food and Resource Economics	3
COMLDR 3537	Data Analysis in the Applied Sciences	3
ENR 2300	Society and Natural Resources	3
ARTS/HUMANITIES	COMPSTD 2301 or HISTORY 1152 or MUSIC 2250 or RELSTDS 2370	3
ELECTIVE	From approved List	<u>3</u>
		<b>15</b>
<b><u>2<sup>nd</sup> Year – Spring Semester</u></b>		
ARTS/HUMANITIES	COMPSTD 2301 or HISTORY 1152 or MUSIC 2250 or RELSTDS 2370	3
BIOLOGY 1113* or BIOLOGY 1114**	Bio Sci: Energy Transfer and Development	4
ENGTECH 2050T	Bio Sci: Form, Function, Diversity, and Ecology	3
ELECTIVE	Introduction to Geographic Information Systems	<u>3</u>
	From approved List	<u>6-7</u>
		<b>16-17</b>
<b>Total Credits</b>		<b>60-61</b>

\* - NRM and EEDS majors take Biology 1113

\*\* - EPDM majors take Biology 1114



## Associate of Science

**Electives for Natural Resources Management (NRM) BS Major**  
**Minimum of 19 credits required**

9 hours MUST	HISTORY 1152 American Civilization since 1877	3
come from:	COMPSTD 2301 Introduction to World Literature	3
Arts & Humanities	MUSIC 2250 Music Cultures of the World	3
	RELSTDS 2370 Introduction to Comparative Religion	3
BUSTEC 2231T	Fundamentals of Marketing	3
BUSTEC 2247T	Business Law	3
BUSTEC 2249T	Fundamentals of Business Finance	3
*CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Lab	1
HCS 2201	Ecology of Managed Plant Systems	4
PLNTPH 3001	General Plant Pathology Lecture	3

**Electives for Environmental Policy and Decision Making (EPDM) BS Major**  
**Minimum of 19 credits required**

9 hours MUST	HISTORY 1152 American Civilization since 1877	3
come from:	COMPSTD 2301 Introduction to World Literature	3
Arts & Humanities	MUSIC 2250 Music Cultures of the World	3
	RELSTDS 2370 Introduction to Comparative Religion	3
*CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Lab	1
ENGTECH 2040T	Soil and Water Conservation Systems	4

**Electives for Environment, Economy, Development, and Sustainability (EEDS) BS Major**  
**Minimum of 19 credits required**

9 hours MUST	HISTORY 1152 American Civilization since 1877	3
come from:	COMPSTD 2301 Introduction to World Literature	3
Arts & Humanities	MUSIC 2250 Music Cultures of the World	3
	RELSTDS 2370 Introduction to Comparative Religion	3
BUSTEC 2231T	Fundamentals of Marketing	3
BUSTEC 2247T	Business Law	3
BUSTEC 2249T	Fundamentals of Business Finance	3
*CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Lab	1

\* CRPSOIL 2300T fulfills the Additional Science option for the BS major