



**ARTICULATION AGREEMENT:**

**ONTARIO COLLEGE DIPLOMA IN ECOSYSTEM MANAGEMENT TECHNICIAN**

**TO**

**BACHELOR OF SCIENCE (HONOURS), ENVIRONMENTAL AND RESOURCE  
SCIENCE**

**BETWEEN**

**THE SIR SANDFORD FLEMING COLLEGE OF APPLIED ARTS AND  
TECHNOLOGY**

**AND**

**TRENT UNIVERSITY**

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**ORIGINAL AGREEMENT DATE: February 2022**

# **The Sir Sandford Fleming College of Applied Arts and Technology's**

Ontario College Diploma in Ecosystem Management Technician

to

## **Trent University's**

Bachelor of Science (Honours) in Environmental and Resource Science

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This agreement establishes the principles, guidelines and procedures governing admission and assessment of selected qualified students to enter Trent University on an advanced standing basis, subsequent to the successful completion of the Ontario College Diploma in Ecosystem Management Technician at The Sir Sandford Fleming College of Applied Arts and Technology (Fleming College).

### **1. PURPOSE**

- 1.1. The purpose of this agreement is to provide qualified graduates of Fleming College's Ecosystem Management Technician Diploma program with a seamless option for continuing their education in the Environmental and Resource Science degree program at Trent University.

### **2. ROLES AND RESPONSIBILITIES**

#### 2.1. Student Supports

Trent's program faculty will support incoming students by providing them with relevant information related to their program.

#### 2.2. Admissions

The Admissions Office at Trent University will be responsible for ensuring that eligible students will be awarded credit transfers as stated in the agreement.

#### 2.3. Recruitment and Marketing

Recruitment and Marketing representatives at Trent University will be responsible for promoting the articulation pathway and recruiting students.

#### 2.4. Students

Through communication with program faculty and orientation sessions, students will be advised to consult academic advisors to ensure they are successfully completing program requirements.

### **3. TERMS AND CONDITIONS OF THE AGREEMENT**

- 3.1. Graduates of Fleming College's Ecosystem Management Technician Diploma will be granted 7.0 credits toward a 20.0 credit Bachelor of Science (Honours) in Environmental and Resource Science at Trent University.

- 3.2. Upon successful admission to Trent University, students are required to complete an additional 13.0 credits to meet degree requirements.

3.3. Students who have graduated from Fleming College’s Ecosystem Management Technician Diploma, who commenced studies since Fall 2020, will be awarded the full 7.0 transfer credits provided they meet admission requirements listed under Section 4 of this agreement. Students commencing studies prior to this term will be evaluated for transfer credits on a course-by-course basis.

#### 4. **ADMISSION REQUIREMENTS**

4.1. To qualify for this agreement, students must have:

- Successfully completed Fleming College’s Ecosystem Management Technician Diploma;
- A minimum overall average of 75%.

4.2. Students must meet all specific admission and enrollment standards, and requirements for the program. Students will be accepted subject to capacity, if applicable.

#### 5. **TRANSFER OF CREDITS**

5.1. Students who are eligible, graduating from Fleming College’s Ecosystem Management Technician program with a minimum average of 75%, will be granted 7.0 credits toward the successful completion of a 20.0 credit Bachelor of Science (Honours) in Environmental and Resource Science at Trent University. Credits will be transferred as follows:

<b>Courses completed at Fleming College</b>	<b>Course equivalencies at Trent University</b>	<b>Credits received</b>
ENVR 20 – Ecology and Environment (60 hours)	ERSC 1010H – Environmental Science and Sustainability	0.5
MATH 25 – Statistics (45 hours)	ERSC-GEOG-BIOL 2080H – Natural Science Statistics	0.5
NART 129 - Soil and Ecosystems (45 hours)	ERSC-GEOG 3560H – Soil Science	0.5
FSTY 73 – Forest Measurement (45 hours) ECOS 7 – Ecosystem Monitoring and Assessment (45 hours)	ERSC 2240H – Ecological Assessment for Natural Resource Management	0.5
ECOS 3 – Aquatic Ecosystems (60 hours) ECOS 11 – Terrestrial Ecosystems (45 hours)	ERSC-BIOL 2260H – Introductory Ecology	0.5
ECOS 14 – Ecology: Concepts and Linkages (60 hours) ECOS 10 – Restoration Ecology (45 hours)	ERSC 4520H – Restoration Ecology	0.5
ECOS 13 – Ecosystem Skills (60 hours)	BIOL 1020H – Foundations of Biodiversity	0.5
FSTY 50 – Trees and Shrubs of Ontario (60 hours)	BIOL 3190H – Wild Plants of Ontario	0.5
GNEG 49 – Introduction to Indigenous Studies (45 hours)	INDG 1001H – The Foundation for Reconciliation	0.5
COMM 201 – Communications I (45 hours)	WRIT 1001H – Write in Time	0.5
COMM 202 – Communications II (45 hours)	WRIT 2002H – Write It Up: Effective Communication	0.5
Completion of all program components	ERSC 1020H – Cases in Environment and Sustainability 1.0 unassigned Science credit at the 2000 level	1.5

5.2. As these credits recognize areas covered in Fleming College’s Ecosystem Management Technician Diploma program rather than the completion of Trent University courses, numerical grades will not be recorded on the Trent transcript. Completion of these credits will be recognized with a pass grade.

## 6. **PROGAM AND GRADUATION REQUIREMENTS**

6.1. Upon admission to the Bachelor of Science (Honours) at Trent, students must satisfy all general education, graduation and major requirements as outlined in the University’s undergraduate calendar. If a student does not have the foundation or skills to enroll in an upper level course because of a lack of the appropriate introductory course(s), any necessary prerequisite course(s) will be required.

6.2. If a student transfers to a different degree program, all transfer credits outlined in this agreement may not apply to the new degree program. It is the student’s responsibility to consult an academic advisor, and to notify the Registrar’s Office of any program changes.

6.3. To satisfy the requirements of Trent’s Bachelor of Science (Honours) in Environmental and Resource Science, students will need to complete specific courses to meet program requirements in addition to the courses they have already been granted from Fleming College. Program requirements are subject to change annually and the Academic Calendar should be consulted for all degree requirements and regulations.  
<http://www.trentu.ca/calendar>.

Program Requirements	Courses Granted Through Transfer Equivalency	Courses Students Still Need to Take
<b>3.0 ERSC credits consisting of ERSC 1010H, 1020H, 2080H, 2220H, 2230H, and 2240H</b>	ERSC 1010H, 1020H, 2080H and 2240H	ERSC 2220H and 2230H
<b>0.5 ERST credit consisting of ERST 3000H</b>	---	ERST 3000H
<b>3.0 additional ERSC credits from Category A</b>	ERSC 4520H ERSC-GEOG 3560H	2.0 additional ERSC credits from Category A
<b>1.5 additional ERSC/T credits from Category B</b>	---	1.5 additional ERSC/T credits from Category B
<b>0.5 additional ERST credit from Category C</b>	---	0.5 additional ERST credit from Category C
<b>0.5 ERSC/T credit from Category D</b>	---	0.5 ERSC/T credit from Category D
<b>1.0 ERSC/T credit at the 3000 level or beyond in addition to the above</b>	---	1.0 ERSC/T credit at the 3000 level or beyond in addition to the above
<b>10.0 additional credits</b>	BIOL 1020H and 3190H; ERSC-BIOL 2260H; INDG 1001H; WRIT 1001H and 2002H; 1.0 unassigned SCIE 2000 level	6.0 additional credits
<b>General University Requirements</b>		
<b>A minimum of 14.0 science credits, including 1.0 MATH credit</b>	5.0 assigned through transfer credit	Minimum 3.5 required above; Minimum 5.5 additional required, including 1.0 MATH credit
<b>A minimum of 7.0 credits at the 3000 or 4000 level</b>	1.0 assigned through transfer credit	Minimum 2.0 required above; Minimum 4.0 additional required
<b>A minimum of 3.0 credits with a grade of 60% leading to majors in a different discipline</b>	Fulfilled through transfer credit	---
<b>Maximum of 7.0 credits at the 1000 level</b>	2.5 assigned through transfer credit	Maximum 4.5 additional permitted

Minimum of 0.5 credit from the Approved Indigenous Course List	INDG 1001H	---
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6.4. Completion of required courses will vary on an individual basis based on the flexibility and course options within the Bachelor of Science (Honours) degree and specific program chosen. Students must achieve the following to fulfill Trent University degree requirements:

- i. A maximum of 7.0 credits at the 1000 level can count towards the degree;
- ii. A maximum of 1.0 credit with a D grade (50-59%) in courses in a major or each joint-major or minor;
- iii. At least 0.5 credit from the Approved Indigenous Course List;
- iv. 7.0 credits completed at the 3000 or 4000 level through both program requirements and general elective options;
- v. An overall minimum average of 65% in Trent University courses to obtain an Honours degree;
- vi. The maximum credits in a discipline that can count towards the degree is 8.0 (General degree) or 13.0 (Honours degree);
- vii. A minimum of 14.0 science credits (including 1.0 Math credit).

*Note: It is recommended that students transferring into the Bachelor of Science (Honours) in Environmental and Resource Science meet with an Academic Advisor at Trent University prior to completing any course selections.*

## **7. IMPLEMENTATION AND REVIEW**

This agreement is subject to review whenever either party makes curricular changes that impact the agreement. When a change occurs, the program departments will notify their respective articulation designates so that the agreement can be updated. Articulation designates at each institution will review the agreement annually to ensure it is current. This Agreement may be terminated by either party. In this case, notice of one year is required. In the event of termination of the Agreement, every effort will be made to ensure that students currently enrolled in the program will not be effected.

**8. ACCEPTANCE OF AGREEMENT**

We, the undersigned, as the representatives of Trent University and The Sir Sandford Fleming College of Applied Arts and Technology hereby demonstrate our commitment to full implementation of the Agreement.

For, and on behalf of,  
Trent University



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Dr. Holger Hintelmann  
Dean of Science

February 25, 2022

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Date

For, and on behalf of,  
The Sir Sandford Fleming College of Applied Arts and  
Technology



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Sandra Dupret  
Executive Vice President, Academic and Student  
Experiences

March 2, 2022

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Date



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Dr. Michael Khan  
Provost & Vice-President Academic

March 1, 2022

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Date

APRIL 2022  
**ADDENDUM**  
 TO THE  
**ARTICULATION AGREEMENT #5761**  
 BETWEEN  
**THE SIR SANDFORD FLEMING COLLEGE OF APPLIED ARTS AND TECHNOLOGY'S**  
**ONTARIO COLLEGE DIPLOMA IN ECOSYSTEM MANAGEMENT TECHNICIAN**  
 AND  
**TRENT UNIVERSITY'S**  
**BACHELOR OF SCIENCE (HONOURS), ENVIRONMENTAL AND RESOURCE**  
**SCIENCE**

This Addendum recognizes the changes outlined below, which shall become effective as of the Spring 2023 intake at Trent University. These changes will remain effective until the above-mentioned Agreement expires or until a new agreement is entered into, whichever occurs first.

The following change will occur in Fleming College's Diploma in Ecosystems Management Technician starting in Fall 2022:

- GNED 49 – Introduction to Indigenous Studies (45 hours) will be replaced with INDG 49 – Introduction to Indigenous Studies (45 Hours)

These changes specifically refer to Section 5 of the Agreement.

**BACHELOR OF SCIENCE (HONOURS), ENVIRONMENTAL AND RESOURCE SCIENCE TRANSFER CREDITS**

Students who are eligible, graduating from Fleming College's Ecosystem Management Technician program with a minimum average of 75%, will be granted 7.0 credits toward the successful completion of a 20.0 credit Bachelor of Science (Honours) in Environmental and Resource Science at Trent University.

<b>Courses completed at Fleming College</b>	<b>Course equivalencies at Trent University</b>	<b>Credits received</b>
ENVR 20 – Ecology and Environment (60 hours)	ERSC 1010H – Environmental Science and Sustainability	0.5
MATH 25 – Statistics (45 hours)	ERSC-GEOG-BIOL 2080H – Natural Science Statistics	0.5
NART 129 - Soil and Ecosystems (45 hours)	ERSC-GEOG 3560H – Soil Science	0.5
FSTY 73 – Forest Measurement (45 hours) ECOS 7 – Ecosystem Monitoring and Assessment (45 hours)	ERSC 2240H – Ecological Assessment for Natural Resource Management	0.5
ECOS 3 – Aquatic Ecosystems (60 hours) ECOS 11 – Terrestrial Ecosystems (45 hours)	ERSC-BIOL 2260H – Introductory Ecology	0.5
ECOS 14 – Ecology: Concepts and Linkages (60 hours) ECOS 10 – Restoration Ecology (45 hours)	ERSC 4520H – Restoration Ecology	0.5
ECOS 13 – Ecosystem Skills (60 hours)	BIOL 1020H – Foundations of Biodiversity	0.5

FSTY 50 – Trees and Shrubs of Ontario (60 hours)	BIOL 3190H – Wild Plants of Ontario	0.5
INDG 49 – Introduction to Indigenous Studies (45 hours)	INDG 1001H – The Foundation for Reconciliation	0.5
COMM 201 – Communications I (45 hours)	WRIT 1001H – Write in Time	0.5
COMM 202 – Communications II (45 hours)	WRIT 2002H – Write It Up: Effective Communication	0.5
Completion of all program components	ERSC 1020H – Cases in Environment and Sustainability 1.0 unassigned Science credit at the 2000 level	1.5



**JUNE 2023**  
**ADDENDUM**  
**TO THE**  
**ARTICULATION AGREEMENT #5761**  
**BETWEEN**  
**THE SIR SANDFORD FLEMING COLLEGE OF APPLIED ARTS AND TECHNOLOGY'S**  
**ONTARIO COLLEGE DIPLOMA IN ECOSYSTEM MANAGEMENT TECHNICIAN**  
**AND**  
**TRENT UNIVERSITY'S**  
**BACHELOR OF SCIENCE (HONOURS), ENVIRONMENTAL AND RESOURCE SCIENCE**

This Addendum recognizes the changes outlined below, which became effective as of the Fall 2022 intake at Fleming College. These changes will remain effective until the above-mentioned Agreement expires or until a new agreement is entered in to, whichever occurs first.

The following changes have occurred:

- ECOS 13 – Ecosystem Skills (60 hours) has been renamed ECOS 13 – Field Skills (60 hours). The transfer credits received remain unchanged.

These changes specifically refer to Section 5 of the Agreement.

**BACHELOR OF SCIENCE (HONOURS), ENVIRONMENTAL AND RESOURCE SCIENCE: TRANSFER CREDITS**

Students graduating from Fleming College's Ecosystem Management Technician Diploma program with a minimum overall average of 75%, who are eligible, will be granted 7.0 credits toward the successful completion of a 20.0 credit Bachelor of Science (Honours) in Environmental and Resource Science degree.

<b>Courses Completed at Fleming College</b>	<b>Course Equivalencies at Trent University</b>	<b># of Credits Received</b>
ENVR 20 – Ecology and Environment (60 hours)	ERSC 1010H – Environmental Science and Sustainability	0.5
MATH 25 – Statistics (45 hours)	ERSC-GEOG-BIOL 2080H – Natural Science Statistics	0.5
ECOS 3 – Aquatic Ecosystems (60 hours); ECOS 11 – Terrestrial Ecosystems (45 hours)	ERSC-BIOL 2260H – Introductory Ecology	0.5
FSTY 73 – Forestry Measurement (45 hours); ECOS 7 – Ecosystem Monitoring and Assessment (45 hours)	ERSC 2240H – Ecological Assessment for Natural Resource Management	0.5
NATR 129 – Soil and Ecosystems (45 hours)	ERSC-GEOG 3560H – Soil Science	0.5
ECOS 14 – Ecology: Concepts and Linkages (60 hours); ECOS 10 – Restoration Ecology (45 hours)	ERSC 4520H – Restoration Ecology	0.5
ECOS 13 – Field Skills (60 hours)	BIOL 1020H – Foundations of Biodiversity	0.5
FSTY 50 – Trees and Shrubs of Ontario (60 hours)	BIOL 3190H – Wild Plants of Ontario	0.5
INDG 49 – Introduction to Indigenous Studies (45 hours)	INDG 1001H – The Foundation for Reconciliation	0.5
COMM 201 – Communications I (45 hours)	WRIT 1001H – Write in Time	0.5

COMM 202 – Communications II (45 hours)	WRIT 2002H – Write It Up: Effective Communication	0.5
Completion of all program components	ERSC 1020H – Cases in Environment and Sustainability; 1.0 unassigned Science credit at the 2000 level	1.5

**JUNE 2023**  
**ADDENDUM**  
**TO THE**  
**ARTICULATION AGREEMENT #5761**  
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**THE SIR SANDFORD FLEMING COLLEGE OF APPLIED ARTS AND TECHNOLOGY'S**  
**ONTARIO COLLEGE DIPLOMA IN ECOSYSTEM MANAGEMENT TECHNICIAN**  
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**TRENT UNIVERSITY'S**  
**BACHELOR OF SCIENCE (HONOURS), ENVIRONMENTAL AND RESOURCE SCIENCE**

This Addendum recognizes the changes outlined below, which became effective as of the Fall 2022 intake at Fleming College. These changes will remain effective until the above-mentioned Agreement expires or until a new agreement is entered in to, whichever occurs first.

The following changes have occurred:

- ECOS 13 – Ecosystem Skills (60 hours) has been renamed ECOS 13 – Field Skills (60 hours);
- Updated transfer credits to align with the Ecosystem Management Technology agreement (#1487);
- This addendum will replace the June 2023 addendum.

These changes specifically refer to Section 5 of the Agreement.

**BACHELOR OF SCIENCE (HONOURS), ENVIRONMENTAL AND RESOURCE SCIENCE: TRANSFER CREDITS**

Students graduating from Fleming College's Ecosystem Management Technician Diploma program with a minimum overall average of 75%, who are eligible, will be granted 7.0 credits toward the successful completion of a 20.0 credit Bachelor of Science (Honours) in Environmental and Resource Science degree.

<b>Courses Completed at Fleming College</b>	<b>Course Equivalencies at Trent University</b>	<b># of Credits Received</b>
ENVR 20 – Ecology and Environment (60 hours)	ERSC 1010H – Environmental Science and Sustainability	0.5
MATH 25 – Statistics (45 hours)	ERSC-GEOG-BIOL 2080H – Natural Science Statistics	0.5
GEOL 83 – Earth and Atmosphere (60 hours); GEOM 163 – Fundamentals of Geomatics (45 hours)	ERSC 2090H – Introduction to Geographical Information Systems	0.5
ECOS 3 – Aquatic Ecosystems (60 hours); ECOS 11 – Terrestrial Ecosystems (45 hours)	ERSC-BIOL 2260H – Introductory Ecology	0.5
FSTY 73 – Forestry Measurement (45 hours); ECOS 7 – Ecosystem Monitoring and Assessment (45 hours)	ERSC 2240H – Ecological Assessment for Natural Resource Management	0.5
NATR 129 – Soil and Ecosystems (45 hours)	ERSC-GEOG 3560H – Soil Science	0.5
ECOS 14 – Ecology: Concepts and Linkages (60 hours); ECOS 10 – Restoration Ecology (45 hours)	ERSC 4520H – Restoration Ecology	0.5
ECOS 13 – Field Skills (60 hours)	BIOL 1020H – Foundations of Biodiversity	0.5
FSTY 50 – Trees and Shrubs of Ontario (60 hours)	BIOL 3190H – Wild Plants of Ontario	0.5

INDG 49 – Introduction to Indigenous Studies (45 hours)	INDG 1001H – The Foundation for Reconciliation	0.5
COMM 201 – Communications I (45 hours)	WRIT 1001H – Write in Time	0.5
COMM 202 – Communications II (45 hours)	WRIT 2002H – Write It Up: Effective Communication	0.5
Completion of all program components	ERSC 1020H – Cases in Environment and Sustainability; 0.5 unassigned Science credit at the 2000 level	1.0

### **BACHELOR OF SCIENCE (HONOURS), ENVIRONMENTAL AND RESOURCE SCIENCE: PROGRAM REQUIREMENTS**

<b>Program Requirements</b>	<b>Courses Granted Through Transfer Equivalency</b>	<b>Courses Students Still Need to Take</b>
<b>3.0 ERSC credits consisting of ERSC 1010H, 1020H, 2080H, 2220H, 2230H and 2240H</b>	ERSC 1010H, 1020H, 2080H, and 2240H	ERSC 2220H and 2230H
<b>0.5 ERST credit consisting of ERST 3000H</b>	---	ERST 3000H
<b>3.0 additional ERSC credits from Category A</b>	ERSC 2090H and 4520H; ERSC-GEOG 3560H	1.5 additional ERSC credits from Category A
<b>1.5 additional ERSC/T credits from Category B</b>	---	1.5 additional ERSC/T credits from Category B
<b>0.5 additional ERST credit from Category C</b>	---	0.5 additional ERST credit from Category C
<b>0.5 ERSC/T credit from Category D</b>	---	0.5 ERSC/T credit from Category D
<b>1.0 ERSC/T credit at the 3000 level or beyond in addition to the above</b>	---	1.0 ERSC/T credit at the 3000 level or beyond in addition to the above
<b>10.0 additional credits</b>	BIOL 1020H and 3190H; ERSC-BIOL 2260H; INDG 1001H; WRIT 1001H and 2002H; 0.5 unassigned SCIE 2000 level	6.5 additional credits
<b>General University Requirements</b>		
<b>A minimum of 14.0 science credits, including 1.0 MATH credit</b>	5.5 assigned through transfer credit	Minimum 2.5 required above; Minimum 6.0 additional required, including 1.0 MATH credit
<b>A minimum of 7.0 credits at the 3000 or 4000 level</b>	1.5 assigned through transfer credit	Minimum 2.0 required above; Minimum 3.5 additional required
<b>A minimum of 3.0 credits with a grade of 60% leading to majors in a different discipline</b>	Fulfilled through transfer credit	---
<b>Maximum of 7.0 credits at the 1000 level</b>	2.5 assigned through transfer credit	Maximum 4.5 additional permitted
<b>Minimum of 0.5 credit from the Approved Indigenous Course List</b>	INDG 1001H	---