



**ARTICULATION AGREEMENT  
BETWEEN  
SIR SANDFORD FLEMING COLLEGE  
AND  
HASTINGS AND PRINCE EDWARD DISTRICT SCHOOL BOARD  
Effective June 2006  
Revised May 1, 2008**

This document sets forth the understanding between the School of Environmental and Natural Resource Sciences (SENRS) at Sir Sandford Fleming College (Fleming College) and North Hastings Secondary School of the Hastings and Prince Edward District School Board (HPEDSB) with respect to the examination and crediting of the curriculum in the "Natural Bridges" (4 credit) enriched program offered at North Hastings Secondary School.

The curriculum assessment has been completed by SENRS faculty and the outcome of this process is the establishment of an articulation agreement between Fleming College and HPEDSB that outlines the conditions under which specific secondary school students may take advantage of this opportunity.

Students who successfully complete the enriched "Natural Bridges" Program (average grade of 70% across the program) and have completed their OSSD with the courses identified below would be awarded exemption for all first semester courses at the SENRS. The enriched components of the Natural Bridges program are outlined in Appendix A.

Required OSSD courses:

CGR 4M Environment and Resource Management  
CGO 4M Geomatics: Geotechnology in Action  
CGR 4EC0/CGR4E Environment and Resource Management Co-Op Ed.  
MAP 4C College and Apprenticeship Mathematics

A committee including representatives from North Hastings Secondary School (Colleen Baehre, Glen Pomerory) and SENRS (Barb Elliott, Trudy Heffernan) have contributed to the definition to the terms of this articulation agreement and will be responsible for ongoing communications as well as annual review.

This agreement also includes the following elements:

- Adherence to our normal admissions process to specific SENRS programs, with entrance based on availability of seats in second semester.
- Provision for an advising model for the students participating in the articulation activity

- This articulation agreement will be reviewed every two years, with the next date of review to be May 2010.

Both parties by signing this document are indicating their agreement and acceptance of the foregoing.

For  
Sir Sandford Fleming College

For  
Hastings and Prince Edward District School Board

June 9/08  
Date

June 16/08  
Date

R. Donovan  
Signature

K Soule  
Signature

Rachael Donovan,  
Vice President, Academic

Kathy Soule  
Director of Education

## APPENDIX A

### Additional Information Activities of 'Natural Bridges' Enriched Program

<b>Additional Information Activities of Environmental Program</b>			
<b>Course:</b>	<b>Description of Activities</b> (outside of Classroom)	<b>Learning Outcome Met</b> (include code)	<b>Additional Evaluation</b>
Northern Outdoor Studies Four-credit "Natural Bridges" program	The focus of "NOS" is to give students hands-on job-related skills and qualifications related to the Natural Resources industry. The certifications obtained include: First Aid/CPR, ORCA Canoe Tripping, PCO Chainsaw and Clearing Saw, Firearms and Hunter Safety, Trapper and Fur Conservation, Service Excellence, Boating proficiency, Search and Rescue., Working in Bear Country Safety Training , Radio Operators Aeronautical Licence, S102 Fire Fighting Course	ES1, ES2, ES3	Attainment of certifications through standard industry or organization testing programs

	<p><b>Resource Management Activities</b> include: Lake Trout Spawning Survey, Woodlot Management, Timber Cruising, Tree Identification, Deer Harvest Survey, Deer Hunt Economic Impact Study.</p>	<p>ES1, ES2, ES3, ES4, ES5, EL1, EL3, EL4, EL5</p>	<p>Written reports, field observation and testing</p>

<b>Course:</b>	<b>Description of Activities</b> (outside of Classroom)	<b>Learning Outcome Met</b> (include code)	<b>Additional Evaluation</b>
<b>CGR4M</b>	<p><b>Course Text:</b> Draper, Dianne, 2002. <u>Our Environment: A Canadian Perspective, 2<sup>nd</sup> Edition</u> Nelson Thomson: Scarborough</p> <p>NOTE: SSFC currently using Cunningham et al text: Environmental Science: A Global Concern</p>	<p>Material from this text is used to address aspects of the following learning outcomes: EE1, EE4, EE5, EE6, EE8, EE9 EL1, EL5</p>	<p>SEE TABLES ABOVE</p>

CGR4M	<p><b>Summary of Out-of-class Activities:</b> (included in tables above)</p> <p>1. Water Quality Analysis/ Lake Assessment : biological, chemical, physical</p>	<p>ES1, ES2, ES3, ES4, (ES5 - fish and other aquatic organisms), ES6 EE5, EE6, EL5 CT1</p>	SEE TABLES ABOVE
	<p>2. Forest Management Activities:</p> <ul style="list-style-type: none"> <li>- tree ID</li> <li>- timber cruising: compass, calipers, prism, suunto, increment bore</li> <li>- long term woodlot management planning</li> </ul>	<p>ES1, ES2, ES3, ES5 (trees), ES6, EE6 EL5</p>	SEE TABLES ABOVE

<b>Course:</b>	<b>Description of Activities</b> (outside of Classroom)	<b>Learning Outcome Met</b> (include code)	<b>Additional Evaluation</b>
CGR4M (Continued)	3. Field Trip: sawmill/chip mill tour and sustainable logging operation tour	EL1, EL3, EL5	evaluated along with in-class discussion of forest management on written test.)
CGO4M	Numerous field activities using GPS units to track and mark trails, landmarks and physical features	GT4	
MAP4C	Where MAP4C is indicated in the "Met in Course" section, the topics are covered extensively. Generally speaking they do not have specific resource management examples, however, they would be happy to use resource-related material if provided. For example - deer harvest data for graphing.		