Degree Level Expectations, Learning Outcomes, Indicators of Achievement and the Program Requirements that Support the Learning Outcomes

DLE	Learning Outcomes	Relevant Courses,	Indicators of Achievement
		Academic Requirement	
1. Depth and	This degree is awarded to students who	ENSC 801	Positive feedback from
preadth of	demonstrate a thorough understanding of	ENSC 802	supervisor and advisory
nowledge in the	knowledge of sustainability, which will support	1 Grad-level elective	committee on progress.
ield of	the student's future academic activities or		
Sustainability	professional practice with government, private	Successful performance in	Demonstrated depth of
	or civil society sectors. This knowledge would	both parts of the	knowledge in sustainability
	include techiques, tools, perspectives, concepts,	comprehensive exam,	as evidenced by a defendab
	and/or theories from two or more disciplines	courses and finally PhD	well written thesis and abili
	and the ability to integrate this knowledge to	oral defense.	to field questions related to
	advance the understanding of an environmental		environmental sustainabilit
	issue. Students will also demonstrate a critical	Successful feedback from	
	awareness of the current issues in the area of	seminar presentations and	
	sustainability.	committee meetings.	

2. Research and	This degree is sworded to students who are able	ENSC 801	It is evenested that students
	This degree is awarded to students who are able		It is expected that students
scholarship in	to: conceptualize, design, and implement	ENSC 802	will have the ability to
Sustainability	research for the generation of new knowledge,	1 Grad-level elective	conceptualize, design, and
	applications, or understanding of sustainability.	Successful performance in	implement research for the
	The unique aspect of this program is that the	the research proposal part	generation of new
	thesis research must encompass two or more	of the comprehensive	knowledge, applications, or
	disciplines (i.e. toxicology and sociology;	exam.	understanding at the
	geography and philosophy; geology, biology and	Successful feedback from	forefront of the
	chemistry; planning and epidemiology).	seminar presentations and	sustainability, and to adjust
	Students graduating from this program will	thesis advisory meetings.	their research design or
	recognize and appreciate the value of combining	Thesis research	methodology in the light of
	research in different disciplines to address		unforeseen problems. It is
	problems related to environmental		expected that the
	sustainability.		dissertation research in
			sustainability will lead to
			original research, or other
			advanced scholarship, which
			merit publication. Positive
			feedback from supervisor
			and advisory committee on
			progress.
			Successful performance in
			comprehensive exam,
			courses and finally PhD oral
			defense.
			derense.

3. Application of knowledge and contribution to solutions to environmental challenges	This degree is awarded to students who make informed judgments on complex issues in the area of sustainability. This may include the application of knowledge, whereby graduates build on their science/social backgrounds and have incorporated methods from a variety of disciplines (politics, sociology, geography etc.) to ensure their results are meaningful to society and contribute to solutions to environmental challenges we face.	ENSC 801 ENSC 802 1 Grad-level elective Thesis research	Successful performance in courses and PhD oral defense. The ability to translate research findings for use by decision making in the form of white briefs and/or other types of publications.
4. Communication skills	This degree is awarded to students who demonstrate the ability to communicate their findings to experts in the area of sustainability via conference presentations and/or peer review publications. Traditional journals such as <i>Environmental</i> <i>Monitoring and Assessment</i> , and <i>Arctic</i> are accepting environmental studies research and new journals have emerged to service the needs of environmental studies researchers such as <i>Local Environment</i> , and <i>Society and</i> <i>Environment</i> . Less traditional work will include art, websites, blogs, video and other social media which examine the social aspects sustainability. For example, a previous SES MES student sculptured human hands and displayed them on Wolfe Island as an expression of the emotions involved in the sustainability issues surrounding the use of wind turbines for energy generation.	ENSC 801 ENSC 802 1 Grad-level elective Research Day presentations ENSC seminar presentation Thesis and oral defense	Positive feedback from supervisor and advisory committee on quality of presentations. Successful performance of oral PhD defense.The ability to communicate complex and/or ambiguous ideas, issues and conclusions clearly and effectively in public forums.

5. Autonomy and professional capacity	This degree is awarded to students who consistently demonstrate responsibility, integrity and intellectual independence.	ENSC 801 ENSC 802 1 Grad-level elective Thesis Research	Demonstration of ethical behavior consistent with academic integrity.
6. Appreciation of the limitations of their research in Sustainability	This degree is awarded to students who demonstrate the understanding of the limitations of their research methods, current literature and interpretation of results. This will occur through the student's understanding of the assumptions upon which their research is based and accepting that there are always different ways of understanding based on the perspectives we bring to research. A clear example of this issue involves research in Canada's north (an area of increasing interest among our faculty). Graduates will understand that their research, if based on western science, may be viewed by First Nation and aboriginal groups with skepticism, as these communities rely on a different knowledge system based on oral and traditional knowledge.	ENSC 801 ENSC 802 1 Grad-level elective Comprehensive examination Research Day presentations ENSC seminar presentation Thesis and oral defense	Reasoned response to questioning during presentations, comprehensive and PhD oral examinations that demonstrate a knowledge and understanding of research limitations and of the potential contributions of other interpretations, methods, and disciplines.