FAPC 18-023



New Program/Major or Minor/Concentration Proposal Form

(2013)

1.0 Degree Title Please specify the two degrees for cor	ocurrent degree	2.0 Administerii	ng Faculty/Unit
programs	- J	Graduate and	Postdoctoral Studies
Master of Science, Applied (M.Sc.A.)			
1.1 Major (Legacy= Subject)(30-char. max	(.)	Offering Fa	culty/Department
Animal Science		FAES / Anima	Science
1.2 Concentration (Legacy = Concentratio If applicable to Majors only (30 char. n		(Ex. Sept. 2	erm of Implementation 2004 = 200409)
Sustainable Agriculture Option		201809	
1.3 Minor (with Concentration, if Applicable	e) (30 char. max.)		
N/A			
	1		
4.0 Rationale and Admission Requiremen	ts for New Proposal		
			e degree, but still carry out a research project in
			dents the foundations that they require to carry
out their research project. Additional course			
5.0 Program Information		:	
Please check appropriate box(es)			-
5.1 Program Type	5.2 Category		5.3 Level
☐ Bachelor's Program	☐ Faculty Progra	ım (FP)	☐ Undergraduate
☐ Master's	☐ Major		☐ Dentistry/Law/Medicine
☑ M.Sc. (Applied) Program	☐ Joint Major		☐ Continuing Ed (Non-Credit)
☐ Dual Degree/Concurrent Program	☐ Major Concent	tration (CON)	☐ Collegial
☐ Certificate	☐ Minor		▼ Masters & Grad Dips & Certs
☐ Diploma	☐ Minor Concent	tration (CON)	□ Doctorate
☐ Graduate Certificate	☐ Honours (HON	1)	☐ Post-Graduate Medicine/Dentistry
☐ Graduate Diploma	☐ Joint Honours	Component (HC)	☐ Graduate Qualifying
☐ Ph.D. Program	☐ Internship/Co-	-op	☐ Postdoctoral Fellows
☐ Doctorate Program	☐ Thesis (T)		5.4 FQRSC (Research) Indicator
(Other than Ph.D.)	Non-Thesis (N	1)	(for GPS) Yes No
☐ Private Program	☐ Other		
☐ Off-Campus Program	Please specify	1	
☐ Distance Education Program	. ,		1
(By Correspondence)			
Other (Please specify)			-
6.0 Total Credits		7.0 Consultation	with
		Related Units	
45		Financial Co	nsult Yes 🗷 No 🔲
		Attach list of	consultations.

8.0 Program Description (Maximum 150 words)

Climate change and rising human population have increased the need for sustainable agricultural practices. The Sustainable Agriculture option is taken with a M.Sc. Applied (Non-Thesis) program, and designed for students who wish to supplement their basic degree with graduate studies in animal science, with a specific focus on sustainability and agriculture. Students will be exposed to different approaches to improve the sustainability of agricultural systems through specialized coursework and a research project. The degree requirements include 15 credits of coursework focused on sustainability, 15 credits in complementary and elective courses from the Department of Animal Science and other academic units, as well as a 15-credit research project.

9.0 List of proposed program for the New Program/Major or Minor/Concentration.

If new concentration (option) of existing Major/Minor (program), please attach a program layout (list of all courses) of existing Major/Minor.

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight under the headings of: Required Courses, Complementary Courses, Elective Courses)

Program Requirements

The program aims to provide graduate training in applied areas of animal production with a view toward integrating technology and management in animal production with allied areas of agricultural resource utilization.

Project component - Required (15 credits)

- ANSC 643 Project 1 (3)
- ANSC 644 Project 2 (3)
- ANSC 645 Project 3 (3)
- ANSC 646 Project 4 (3)
- ANSC 647 Project 5 (3)

Required Courses (12 credits)

- ANSC 555 The Use and Welfare of Animals (3)
- BREE 533 Water Quality Management (3)
- IGFS 611 Advanced Issues on Development, Food and Agriculture (3)
- PLNT 602 Advances in Agronomy (3)

Complementary Course List 1 (3 credits)

- AEMA 610 Statistical Methods 2 (3)
- AEMA 611 Experimental Designs 1 (3)
- AEMA 614 Temporal and Spatial Statistics 1 (3)

Complementary Course List 2 (9 - 15 credits)

At least 9 credits from the following list:

- ANSC 530 Experimental Techniques in Nutrition (3)
- ANSC 551 Carbohydrate and Lipid Metabolism (3)
- ANSC 552 Protein Metabolism and Nutrition (3)
- ANSC 560 Biology of Lactation (3)
- ANSC 565 Applied Information Systems (3)
- ANSC 637 Livestock Breeding Systems (3)
- ANSC 604 Advanced Animal Biotechnology (3)
- ANSC 611D1 / D2 Advanced Reproductive Biology (2 x 11/2)
- ANSC 622 Experimental Techniques in Animal Science (3)
- ANSC 635 Vitamins and Minerals in Nutrition (3)
- FDSC 545 Advances in Food Microbiology (3)
- PLNT 662 Advances in Plant Biotechnology (3)

Complementary Course List 3 (0 - 6 credits)

Sufficient 500-, or 600-level courses (with Advisor's approval) to bring the total credits to 45.

10.0 Approvals				1
Routing Sequence	Name	Si	ignature	Date
Department	Kevin Wade	Shuc	Date 2017 11 13 17 38 50	November 13, 2017
Curric/Acad Committee	Marilyn E. Scott	Manha	Butt	2017-10-30
Faculty 1	[J. TenGyck]]	2018-01-19
Faculty 2		19		
Faculty 3				
CGPS			***************************************	
SCTP				
APC				
Senate	\$\text{\tilde{\text{U}}}			
1)				
Submitted by				
Name	Kevin Wade	To be completed	d by ARR:	
Phone	7973	CIP Code	_	
Email	kevin.wade@mcgill.ca			
Submission Date	November 13, 2017			
Current Program Listing Master of Science, Applied (M.Sc.	A.) Animal Science (Non-Thesis) (45 credits)			
Offered by: Animal Science	Degree: Master of Science Applied			
Program Requirements The program aims to provide grac agricultural resource utilization.	duate training in applied areas of animal production with a	view toward integrating te	chnology and management in an	imal production with allied areas of
Research Project (15 credits) • ANSC 643 Project 1 (3 credits)				
 ANSC 644 Project 2 (3 credits) ANSC 645 Project 3 (3 credits) ANSC 646 Project 4 (3 credits) 				
ANSC 647 Project 5 (3 credits)				
Complementary Courses (30 credits) — 15-30 credits from the following: AEMA 610 Statistical Methods 2 (3 credits)				
ANSC 504 Population Genetics (3 credits) ANSC 530 Experimental Techniques in Nutrition (3 credits)				
ANSC 551 Carbohydrate and Lipid Metabolism (3 credits) ANSC 552 Protein Metabolism and Nutrition (3 credits) ANSC 560 Biology of Lactation (3 credits)				
ANSC 565 Applied Information Systems (3 credits) ANSC 600 Advanced Eukaryotic Cells and Viruses (3 credits)				
ANSC 604 Advanced Animal Biotechnology (3 credits) ANSC 605 Estimation: Genetic Parameters (3 credits) ANSC 606 Selection Index and Animal Improvement (3 credits)				
ANSC 622 Experimental Techniques in Animal Science (3 credits)* ANSC 635 Vitamins and Minerals in Nutrition (3 credits)*				
	eeding Research Data (3 credits) a l Sciences (3 credits)			
	nd 600-level courses from across the Faculty (with the po	ssibility of up to 9 credits fr	rom outside the Faculty if deeme	d appropriate by the supervisor).
* Recently revised to "Experimental Techniques in Animal Science"				

January 23, 2018

DATE:

TO:	Martina Stromvik, Chair Department of Plant Science		
FROM:	Joanne Ten Eyck		
	proposal has been submitted to the Curriculum Committee, and it has been decided that int should be consulted.		
Complete Prog	ram Title:		
M.Sc. (Applied)	in Animal Science, Sustainable Agriculture option		
Would you be good enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal. Specifically, a course [or courses] taught by your department that has [have] been included in the program's list of courses.			
X	NO OBJECTIONS SOME OBJECTIONS		
COMMENTS:			
Signature:			
Date:	Jan 25, 2018		

DATE:

January 23, 2018

TO:	Kevin Wade, Chair Department of Animal Science
FROM:	Joanne Ten Eyck
	d proposals have been submitted to the Curriculum Committee, and it has been decided that ment should be consulted.
Complete P	rogram Title:
	d) in Plant Science d) in Plant Science, Sustainable Agriculture option
whether or Specifically,	be good enough to review these proposals and let me know as soon as possible, on this form, not your department has any objections to, or comments regarding, the proposals, a course [or courses] taught by your department that has [have] been included in the ist of courses.
<u>X</u>	NO OBJECTIONS SOME OBJECTIONS
COMMENT	rs:
the MSc Ap	ence whole-heartedly supports this joint approach to an option in Sustainable Agriculture in plied, and has no objection to the inclusion, in both programs, of the stated 500- and 600-level t come over under the purview of Animal Science.
Signature:	Mull
Date:	February 23, 2018

January 23, 2018

DATE:

TO:	Brian Driscoll, Chair Department of Natural Resource Sciences		
FROM:	Joanne Ten Eyck		
_	proposal has been submitted to the Curriculum Committee, and it has been decided that your ould be consulted.		
Complete Prog	gram Title:		
M.Sc. (Applied)	in Plant Science, Sustainable Agriculture option		
Would you be good enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal. Specifically, a course [or courses] taught by your department that has [have] been included in the program's list of courses.			
X	NO OBJECTIONS SOME OBJECTIONS		
COMMENTS:			
Signature:	Final Control of the		
Date:	January 23, 2018		

DATE:

January 23, 2018

TO:	Varoujan Yaylayan, Chair Department of Food Science and Agricultural Chemistry		
FROM:	Joanne Ten Eyck		
	proposals have been submitted to the Curriculum Committee, and it has been decided that ent should be consulted.		
Complete Prog	gram Title:		
	in Animal Science, Sustainable Agriculture option in Plant Science, Sustainable Agriculture option		
Would you be good enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal. Specifically, a course [or courses] taught by your department that has [have] been included in the program's list of courses.			
X	NO OBJECTIONS SOME OBJECTIONS		
COMMENTS:			
Signature:	J. Gaylays		
Date:	January 24, 2018		

APPENDIX 1

CONSULTATION REPORT FORM RE PROGRAM PROPOSAL

DATE: October	4, 2017		
TO: Prof Valer	ie Orsat, Chair, Bioresource I	Engineering	
FROM: Prof M	artina Stromvik, Chair, Plan	t Science	
-	coposals have been submitted ur department should be cons		ommittee, and it has been
	ram Title: Animal Science, option Sustai Plant Science, option Sustaina	_	
this form, wheth proposals. Spec	ood enough to review these propertion of your department hat ifically, a course [or courses] program's list of courses.	as any objections to, or	comments regarding, the
X	NO OBJECTIONS		SOME OBJECTIONS
COMMENTS: BREE is in agre	eement		
Signature:	Volene Cht		
Date:	October 16 th , 2017		

Joanne TenEyck

From: Hugo Ramiro Melgar-Quiñonez, Dr.

Sent: January-26-18 10:59 AM

To: Joanne TenEyck

Cc: Martina Stromvik, Dr.; Kevin Wade, Dr.

Subject: Re: M.Sc. (A.) in Animal Science - new option in Sustainable Agriculture

Importance: High

Dear Joanne.

Sorry for the delay in responding. I have been away during the last couple of weeks.

Hereby I confirm I have no objection.

Many thanks,

Hugo

Sent from my LG Mobile

----- Original message----- **From:** Joanne TenEyck

Date: Tue, Jan 23, 2018 9:20 AM **To:** Hugo Ramiro Melgar-Quiñonez, Dr.; **Cc:** Martina Stromvik, Dr.;Kevin Wade, Dr.;

Subject: RE: M.Sc. (A.) in Animal Science - new option in Sustainable Agriculture

Hugo,

Could you please confirm you have no objection to the inclusion of IGFS in the attached programs.

Thanks.

Joanne

----Original Message----

From: Kevin Wade [mailto:kevin.wade@mcgill.ca]

Sent: November-15-17 12:34 PM

To: Hugo Ramiro Melgar-Quiñonez, Dr. <hugo.melgar-quinonez@mcgill.ca>

Cc: Humberto Monardes, Dr. humberto.monardes@mcgill.ca; Joanne TenEyck joanne.teneyck@mcgill.ca; Martina

Stromvik, Dr. <martina.stromvik@mcgill.ca>

Subject: M.Sc. (A.) in Animal Science - new option in Sustainable Agriculture

Dear Hugo,

Both Animal Science and Plant Science are proposing a new option under our respective MScA offerings in the area of Sustainable Agriculture.

We are (both) proposing that IGFS 611 be a required course in the option (the Animal Science submission is attached but the Plant Science is identical for the required courses).

Please advise me (and Joanne) if you or the course instructor have any objections to us ptromoting this course as part of our option.

Kind regards,

Kevin.

Kevin Wade, PhD, Chair Department of Animal Science McGill University

Macdonald Campus, 21111 Lakeshore Rd. Ste. Anne de Bellevue QC H9X 3V9

+1 514 398 7973

www.mcgill.ca/animal