McGill

FAPC18-022

New Program/Major or Minor/Concentration Proposal Form

(2013)

1.0 Degree Title
Please specify the two degrees for concurrent degree programs

Master of Science, Applied (M.Sc.A.)

1.1 Major (Legacy= Subject)(30-char. max.)

Plant Science

1.2 Concentration (Legacy = Concentration/Option)
If applicable to Majors only (30 char. max.)

Sustainable Agriculture Option

1.3 Minor (with Concentration, if Applicable) (30 char. max.)

N/A

2.0 Administering Faculty/Unit

Graduate and Postdoctoral Studies

Offering Faculty/Department

FAES / Plant Science

3.0 Effective Term of Implementation
(Ex. Sept. 2004 = 200409)
Term

201809

4.0 Rationale and Admission Requirements for New Proposal

This program has been designed to attract students who want to do a non-thesis graduate degree, but still carry out a research project in plant science, focusing on sustainable agriculture. The required coursework will give students the foundations that they require to carry out their research project. Additional coursework will focus on plant science, with course options ranging the academic options of the Faculty of Agricultural and Environmental Sciences. This is the first of three possible options for the MSc applied in Plant Science (two more are in development).

5.0 Program Information
Please check appropriate box(es)

5.1 Program Type
- ☐ Bachelor's Program
- ☐ Master's
- ☒ M.Sc. (Applied) Program
- ☐ Dual Degree/Concurrent Program
- ☐ Certificate
- ☐ Diploma
- ☐ Graduate Certificate
- ☐ Graduate Diploma
- ☐ Ph.D. Program
- ☐ Doctorate Program (Other than Ph.D.)
- ☐ Private Program
- ☐ Off-Campus Program
- ☐ Distance Education Program (By Correspondence)
- ☐ Other (Please specify)

5.2 Category
- ☐ Faculty Program (FP)
- ☐ Major
- ☐ Joint Major
- ☐ Major Concentration (CON)
- ☐ Minor
- ☐ Minor Concentration (CON)
- ☐ Honours (HON)
- ☐ Joint Honours Component (HC)
- ☐ Internship/Co-op
- ☐ Thesis (T)
- ☒ Non-Thesis (N)
- ☐ Other

Please specify

5.3 Level
- ☐ Undergraduate
- ☐ Dentistry/Law/Medicine
- ☐ Continuing Ed (Non-Credit)
- ☐ Collegial
- ☒ Masters & Grad Dips & Certs
- ☐ Doctorate
- ☐ Post-Graduate Medicine/Dentistry
- ☐ Graduate Qualifying
- ☐ Postdoctoral Fellows

5.4 FQRSC (Research) Indicator
(for GPS) Yes No

6.0 Total Credits

45

7.0 Consultation with
Related Units Yes ☒ No ☐
Financial Consult 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, taken with the M.Sc. Applied in Plant Science (Non-Thesis) program, is designed for students who wish to supplement their basic degree with graduate studies focusing on sustainability relating to plant production within the context of implementation of agro-ecological principles. This program therefore aims at developing skillsets to evaluate and develop sustainable agro-ecosystems. Students will be exposed to different approaches to improve the sustainability of agricultural systems through specialized coursework and a research project. In addition to the core requirements of the program, the requirements of this option include 15 credits (12 required and 3 complementary) of graduate coursework focused specifically on sustainability of agriculture production from the Department of Plant Science and other academic units.

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 courses) of existing Major/Minor.

Proposed program (list course as follow: Subj Code/Crse Num, Title, Credit weight, under the heading of: Required Courses, Complementary Courses, and Elective Courses).

Existing Master of Science Applied (M.Sc.A.) in Plant Science

Project component - Required ~~(18 credits)~~
- ~~367-693C Project Proposal (6)~~
- ~~367-694C Project Progress Report (6)~~
- ~~367-695C Project (6)~~

Required courses ~~(27 credits)~~
- ~~360-~~610 Statistical Methods II (3)
- ~~367-670 Special Topics I (3)~~
- ~~350-454 Pest Insects (3)~~
- ~~367-632 Plant Virus Diseases (3)~~
- ~~367-636 Epidemiology and Management of Plant Diseases (3)~~
- ~~336-251 Microcomputer Applications (3)~~
- ~~350-726 Insect Population Dynamics (3)~~
- ~~330-401 Integrated Crop Protection (3)~~
- ~~367-687 Seminar in Plant Science (3)~~

Master of Science Applied (M.Sc.A.) in Plant Science: Sustainable Agriculture Option

Project component - Required (15 credits)
- **PLNT 643 Research Project 1 (3)**
- **PLNT 644 Research Project 2 (6)**
- **PLNT 645 Research Project 3 (6)**

Required courses (24 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)
- PLNT 622 Advances in Plant Protection (3)
- PLNT 646 Advances in Plant-Biotic & Abiotic Interactions (3)
- PLNT 650 Advances in Plant Biodiversity and Ecology (3)
- PLNT 662 Advances in Plant Biotechnology (3)

Complementary courses (6 credits)
3 credits from the following list:
- AEMA 610 Statistical Methods 2 (3)
- AEMA 611 Experimental Designs 1 (3)
- AEMA 614 Temporal and Spatial Statistics 1 (3)

3 credits from the following list:
- **ANSC 637 Livestock Breeding Schemes (3)**
- BINF 511 Bioinformatics for Genomics (3)
- BTEC 621 Biotechnology Management (3)
- ENTO 610 Insect Phylogeny and Diversity (3)
- FDSC 626 Food Safety Risk Assessment (3)
- PLNT 619 Advances in Plant Biology and Physiology (3)
- SOIL 535 Ecological Soil Management (3)

Or 500- or 600-level recommended by the Advisory Committee.

10.0 Approvals

Routing Sequence	Name	Signature	Date
Department	Martina Stromvik		Feb 26, 2018
Curric/Acad Committee	Marilyn Scott	Marilyn Scott	2018-03-02
Faculty 1			
Faculty 2			
Faculty 3			
CGPS			
SCTP			
APC			
Senate			

Submitted by

Name	Valerie Gravel
Phone	8132
Email	valerie.gravel@mcgill.ca
Submission Date	

To be completed by ARR:

CIP Code

CONSULTATION REPORT FORM
RE PROGRAM PROPOSAL

DATE: January 23, 2018

TO: Martina Stromvik, Chair
Department of Plant Science

FROM: Joanne Ten Eyck

The attached proposal has been submitted to the Curriculum Committee, and it has been decided that your department should be consulted.

Complete Program 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

CONSULTATION REPORT FORM
RE PROGRAM PROPOSAL

DATE: January 23, 2018

TO: Kevin Wade, Chair
Department of Animal Science

FROM: Joanne Ten Eyck

The attached proposals have been submitted to the Curriculum Committee, and it has been decided that your department should be consulted.

Complete Program Title:

M.Sc. (Applied) in Plant Science
M.Sc. (Applied) in Plant Science, Sustainable Agriculture option

Would you be good enough to review these proposals and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposals. 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:

Animal Science whole-heartedly supports this joint approach to an option in Sustainable Agriculture in the MSc Applied, and has no objection to the inclusion, in both programs, of the stated 500- and 600-level courses, that come over under the purview of Animal Science.

Signature: 

Date: **February 23, 2018**

CONSULTATION REPORT FORM
RE PROGRAM PROPOSAL

DATE: January 23, 2018

TO: Brian Driscoll, Chair
Department of Natural Resource Sciences

FROM: Joanne Ten Eyck

The attached proposal has been submitted to the Curriculum Committee, and it has been decided that your department should be consulted.

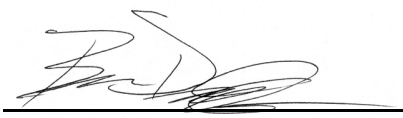
Complete Program Title:

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: 

Date: **January 23, 2018**

CONSULTATION REPORT FORM
RE PROGRAM PROPOSAL

DATE: January 23, 2018

TO: Varoujan Yaylayan, Chair
Department of Food Science and Agricultural Chemistry

FROM: Joanne Ten Eyck

The attached proposals have been submitted to the Curriculum Committee, and it has been decided that your department should be consulted.

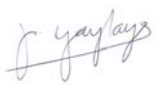
Complete Program Title:

M.Sc. (Applied) in Animal Science, Sustainable Agriculture option
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: 

Date: **January 24, 2018**

APPENDIX 1

CONSULTATION REPORT FORM
RE PROGRAM PROPOSAL

DATE: October 4, 2017

TO: Prof Valerie Orsat, Chair, Bioresource Engineering

FROM: Prof Martina Stromvik, Chair, Plant Science

The attached proposals have been submitted to the Curriculum Committee, and it has been decided that your department should be consulted.

Complete Program Title:
MSc (Applied) Animal Science, option Sustainable Agriculture
MSc (Applied) Plant Science, option Sustainable Agriculture

Would you be good enough to review these proposals and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposals. 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:
BREE is in agreement

Signature: Valerie Orsat

Date: **October 16th, 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

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www.mcgill.ca/animal