McGill

FAPC18-020 revised

CGPS-MPR-M.Sc.A.PltSci-NT_R00

Program/Major or Minor/Concentration Revision Form

(2013)

1.0 Degree Title
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 (30 char. max.)

N/A

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

N/A

1.4 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

1.5 Complete Program Title

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

2.0 Administering Faculty/Unit

Graduate and Postdoctoral Studies

Offering Faculty/Department

FAES/ Plant Science

3.0 Effective Term of revision or retirement
Please give reasons in 5.0"Rationale" in the case of retirement
(Ex. Sept. 2004 = 200409) ☐ Retirement

Term: Fall 2018

4.0 Existing Credit Weight: 45

Proposed Credit Weight: 45

5.0 Rationale for revised program

This program is being revised in order to meet the demand for a M.Sc. Applied program in Plant Science in line with today's context and challenges. This demand is coming from professionals in the plant agriculture sector who are targeting further advancement in their careers. Currently, the program is out of date as it is comprised of courses no longer given in the Unit or the Faculty and did not include a research component. The research project was added as it was deemed essential as part of the skillset needed to be acquired by the students taking this program and it gives the opportunity to students to apply concepts learned through the coursework. The program has been redesigned to cover essential topics related to plant management based on plant breeding and improvement, integrated stress management, and agro-ecology.

6.0 Revised Program Description (Maximum 150 words)

The M.Sc. Applied (Non-Thesis) in Plant Science degree is designed for students who wish to supplement their basic degree with graduate studies in plant science. The core requirements of the program focus on state of the art technologies in plant breeding and improvement; integrated abiotic and biotic stress management, and agro-ecology. Students will be required to complete 30 credits (15 required and 15 complementary) of graduate coursework, as well as a 15-credit research project.

7.0 List of existing program and proposed program

Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)	Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)
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)~~	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 (15 credits) • 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 (15 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) 12 credits from the following list: • BINF 511 Bioinformatics for Genomics (3) • BREE 533 Water Quality Management (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.

Attach extra page(s) as needed

8.0 Consultation with Related Units ☒ Yes ☐ No Financial Consult ☐ Yes ☒ No

Attach list of consultations

9. 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

10. FQRSC (Research) Indicator (for GPS): Yes No