

# MASTER OF SCIENCE IN BIOMEDICAL SCIENCES, PLAN B, REPRODUCTIVE TECHNOLOGY SPECIALIZATION

## Required Scholarly Paper<sup>2</sup>

<b>Program Total Credits</b>	<b>30</b>
------------------------------	-----------

A minimum of 30 credits are required to complete this program.

- <sup>1</sup> Students must undertake an extensive laboratory project or internship working with oocyte culture IVF, embryo development, or cryopreservation.
- <sup>2</sup> Students must complete a scholarly paper detailing their extensive laboratory project or internship BMS 795E.
- <sup>3</sup> Select additional courses with advisor approval.

## Requirements Effective Fall 2021

Code	Title	Credits
<b>Core Courses</b>		
BMS 521	Comparative Reproductive Physiology	3
BMS 540	Assisted Reproductive Technologies Lab I	3
BMS 541	Assisted Reproductive Technologies Lab II	3
BMS 642	Research Techniques for Gametes and Embryos	1
BMS 792C	Seminar: Reproductive Physiology	1
BMS 795E	Independent Study: Reproductive Physiology <sup>1, 2</sup>	3-4
Select one course from the following:		3-4
BMS 409	Human and Animal Reproductive Biology	
BMS 640	Reproductive Physiology and Endocrinology	
Select one course from the following:		4
BMS 500	Mammalian Physiology I	
BMS 501	Mammalian Physiology II	
Select one course from the following:		1
BMS 610A	Managing a Career in Science: Survival Skills for Coursework (M.S.)	
GRAD 544	Ethical Conduct of Research	
<b>Selected Courses</b>		
Select 6-8 credits from the following: (No more than 4 credits at the 300- or 400-level will count toward the master's degree) <sup>3</sup>		6-8
ANEQ 510	Bovine Reproduction Management	
BC 463	Molecular Genetics	
BMS 430	Endocrinology	
BMS 501	Mammalian Physiology II	
BMS 631	Mechanisms of Hormone Action	
BMS 632	Metabolic Endocrinology	
BMS 640	Reproductive Physiology and Endocrinology	
BZ 455	Human Heredity and Birth Defects	
CM 666/PHIL 666	Science and Ethics	
FW 465	Managing Human-Wildlife Conflicts	
FW 469	Conservation and Management of Large Mammals	
FW 555	Conservation Biology	
STAR 511	Design and Data Analysis for Researchers I	
VS 626	Infertility and Genital Disease	