

# Master of Science Program in Physiology

## Research Focus

- Electrophysiology
- Neurophysiology and Behavioral Neuroscience
- Cardiovascular Physiology
- Molecular Physiology
- Membrane Biology and Membrane Biology of Ion Transport
- Exercise Physiology

## Structure of the Program

### 1. Credit Requirements \*

Requirements	Option 1.1	Option 1.2
Coursework	-	24
- Required Course	-	3
- Core Courses	-	8
- Electives	-	13
Required Non-credit Courses	5	5
Thesis	36	12
<b>Total</b>	<b>36</b>	<b>36</b>

\* Minimum credits required

### 2. Required Course

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Cell Biology	-	-	422513	3
<b>Total</b>	-	-	<b>1</b>	<b>3</b>

### 3. Core Courses

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
System Physiology	-	-	421511	3
Integrative Physiology	-	-	421512	3
Physiology Research Techniques	-	-	421513	2
<b>Total</b>	-	-	<b>3</b>	<b>8</b>

### 4. Electives

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Respiratory Physiology	-	-	421521	2
Renal Physiology	-	-	421522	2
Gastrointestinal Physiology	-	-	421523	2
Endocrine Physiology	-	-	421524	2
Basic Neuroscience	-	-	421525	2
Applied Vascular Physiology	-	-	421526	2
Cardiovascular Physiology	-	-	421527	2
Cellular Physiology	-	-	421528	2
Electrophysiology of Ion Channels	-	-	421529	2
Applications in Exercise Physiology	-	-	421530	2
Physiology of Aging and Rejuvenation	-	-	421531	2
Applied Nutrition Science in Health and Disease	-	-	421532	2
Use of Laboratory Animals and Animal Ethics	-	-	421533	2
Research Project in Physiology	-	-	421534	5
Advanced Cell Biology Techniques	-	-	421535	2
<b>Total</b>	-	-	<b>≥5</b>	<b>≥13</b>

### 5. Required Non-credit Courses

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Research Methodology in Health Sciences	422510	3	422510	3
Seminar 1	421596	1	421596	1
Seminar 2	421597	1	421597	1
<b>Total</b>	<b>3</b>	<b>5</b>	<b>3</b>	<b>5</b>

## 6. Thesis Credit Requirements

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Thesis 1, Option 1.1	421551	9	-	-
Thesis 2, Option 1.1	421552	9	-	-
Thesis 3, Option 1.1	421553	9	-	-
Thesis 4, Option 1.1	421554	9	-	-
Thesis 1, Option 1.2	-	-	421561	4
Thesis 2, Option 1.2	-	-	421562	4
Thesis 3, Option 1.2	-	-	421563	4
<b>Total</b>	<b>4</b>	<b>36</b>	<b>3</b>	<b>12</b>