

## MASTER OF PHYSICS EDUCATION

### A. UNDERGRADUATE PREREQUISITE SUBJECTS

Prospective students of the program should have successfully passed courses at the level of university physics and mathematical analysis such as finding the solutions to differential and integral equations, vector calculus, and linear algebra.

### B. REQUIRED (CORE) SUBJECTS

		UNITS
ED 225	Modern Trends and Directions in Curriculum and Teaching	3
PS ED 200.31	General Physics Education I	5
PS ED 200.32	General Physics Education II	5
PS ED 200.33	General Physics Education III	5
<b>TOTAL:</b>		<b>18</b>

### C. COMPREHENSIVE EXAMINATIONS

PS COMPRE 200 Comprehensive Examinations

### D. GRADUATE SEMINAR AND COLLOQUIUM

PS 307	Graduate Seminar	1
PS 308.1	Graduate Colloquium	1
PS 308.2	Graduate Colloquium	1
<b>TOTAL:</b>		<b>3</b>

### E. FIELD OF CONCENTRATION COURSES

Choose a minimum of **6 units** from the courses listed below with the approval of the Academic Adviser.

PS ED 201	Classical Mechanics Education	3
PS ED 208	Modern Physics Education	3
PS ED 213	Statistical Mechanics and Thermodynamics Education	3
PS ED 223	Mathematical Methods for Physicists I	3
PS ED 224	Mathematical Methods for Physicists II	3
PS ED 241	Electronics Education	3
<b>TOTAL:</b>		<b>6</b>

### F. ELECTIVES

Choose a minimum of **6 units** from the courses listed below with the approval of the Academic Adviser.

ED 234	Educational Materials and Media	3
ED 253	Psychology of Learning and Teaching	3
PS ED 202	Classical Mechanics II	3
PS ED 209	Introduction to Quantum Mechanics Education	3
PS ED 215	Advanced Physics Laboratory	3
PS ED 216	Research Laboratory Series	3
PS ED 226	Topics in Materials Physics Series	3
PS ED 242	Topics in Environmental Physics Series	3
PS ED 245	Electronics Education II	3
PS ED 271	Electromagnetics	3
PS ED 272	Electromagnetic Energy Transfer	3
PS ED 275	Topics in Photonic Series	3
<b>TOTAL:</b>		<b>6</b>

### G. PROJECT

Units for the project are credited after the student successfully passes the oral defense and submits the final revised copy of the project write up.

PS ED 309.1	Project	0
PS ED 309.2	Project	0
<b>TOTAL:</b>		<b>6</b>

**SUMMARY**

Required Subjects	18 Units
Comprehensive Examinations	---
Graduate Seminar and Colloquium	3 Units
Field of Concentration	6 Units
Electives	6 Units
Project	6 Units
<b>TOTAL:</b>	<b>30 Units</b>