



GRADUATE SCHOOL

ENHANCED ACADEMIC PROGRAM IN THE GRADUATE SCHOOL CMO 15, SERIES OF 2019

EDUCATION PROGRAM

Course: **DOCTOR OF PHILOSOPHY IN EDUCATION**
Major: **SCIENCE EDUCATION**

Curriculum Year: **2022 - 2023**

Course Requirement	Units
Core Courses	12.0 units
Major Courses	12.0 units
Cognate Courses	6.0 units
Comprehensive Examination	-
Dissertation Writing	12.0 units
Total Number of Units	42.0 units

CORE COURSES

PHD 101	Philosophy of Education	3.0
PHD 102	Advanced Methods of Research 1 (Qualitative Method)	3.0
PHD 103A	Advanced Methods of Research 2 (Quantitative and Mixed Method) with Educational Statistics and Computer Application	3.0
PHD 104B	Creative Humanistic Philosophy in Education and Core Perpetualite Philosophy	3.0

MAJOR COURSES (Required to enroll: 1 Physical Science** ; 1 Life Science*)

PHDSCI 2211	Environmental Management*	3.0
PHDSCI 2212	Systematics and Evolutionary Biology*	3.0
PHDSCI 2213	Cytogenetics *	3.0
PHDSCI 2214	Advanced Mechanics and Dynamics**	3.0
PHDSCI 2215	Advanced Electricity, Magnetism & Optics**	3.0
PHDSCI 2216	Astronomy**	3.0
PHDSCI 2217	Intellectual Property Protection and Patent	3.0

COGNATE COURSES(Required to enroll: 1 Science Education***; 1 Physical Science**; 1 Life Science*)

PHDSCI 3318	Ethnobiology *	3.0
PHDSCI 3319	Environmental Chemistry & Toxicology**	3.0
PHDSCI 3320	Microbial Physiology*	3.0
PHDSCI 3321	Advanced Physiology – Plant & Animal*	3.0
PHDSCI 3322	Advanced Biochemistry**	3.0
PHDSCI 3323	Action Research for Reflective Practice***	3.0



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GRADUATE SCHOOL

PHDSCI 3324 Information & Communication Technology Integration in Science*** 3.0

COMPREHENSIVE EXAMINATION

DISSERTATION WRITING

PHD 401 Dissertation Writing 1 6.0

PHD 402 Dissertation Writing 2 6.0

Prepared by:

Recommended by:

Recommending Approval:

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