

**CENTRO ESCOLAR UNIVERSITY
Manila**

GRADUATE SCHOOL

**DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES
MAJOR IN OPTOMETRY
Effective School Year 2016-2017**

Degree Requirements

Core Courses		6 units
Area of Specialization		30 units
Cognates.....		9 units
Foreign Language.....		6 units
Dissertation.....		12 units
Total		63 units

Core Courses..... 6

<u>Course Code</u>	<u>Course Descriptive Title</u>	<u>Units</u>
PHILO 300	Philosophical Studies	3
STAT. 318	Advanced Research Studies	3

Area of Specialization..... 30

Professional Core 15

<u>Course Code</u>	<u>Course Descriptive Title</u>	<u>Units</u>
HLT.SCI 304	Medical, Socio-Anthropological Basis of Health Care	3
HLT.SCI 305	Resource Management in Health Science	3
HLT.SCI 306	Ethico-Legal Dimensions in Health Science Management	3
HLT.SCI 307	Management Information and Communication Systems in Health Sciences	3
HLT.SCI 308	Global Health and Policy Making	3

Professional Major 15

OPTO.SCI 331	Advances in Ocular Biology, Biochemistry, and Pathophysiology	3
OPTO.SCI 302	Advanced Clinical Optometry	3
OPTO.SCI 342	Advanced Pediatric Optometry	3
OPTO.SCI 344	Advances in Low Vision, Ageing and Visual Impairment	3
OPTO.SCI 309	Special Topics in Vision Science	3

Cognates (Any 2 of the following)..... 6

<u>Course Code</u>	<u>Course Descriptive Title</u>	<u>Units</u>
OPTO.SCI 310	Clinical Teaching and Educational Supervision in Health Science	3
	Any two major subjects (300 level) in Curriculum and Supervision, Guidance and Counselling, Public Administration, and Southeast Asian Studies	6

Foreign Language 6

<u>Course Code</u>	<u>Course Descriptive Title</u>	<u>Units</u>
FRL 311	Foreign Language 1	3
FRL 312	Foreign Language 2	3

Dissertation..... 12

RES. 391	Dissertation I	6
RES. 392	Dissertation II	6

Total 63 units

- Students must pass the comprehensive exam prior to enrolment in Dissertation I.

CENTRO ESCOLAR UNIVERSITY
Graduate School
Mendiola, Manila

Course Description
DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES
Major in Optometry

Course Code	Course Title	Course Description	Units
Core			6
PHILO 300	Philosophical Studies	A study of the classical and modern philosophies; exposes the students in the philosophical discipline, its nature, value and methods; examines the different questions and problems in philosophy.	3
STAT 318	Advanced Research Statistics	Reinforces knowledge acquired from Statistics in Research through analysis and data from various researches and deriving relevant interpretations from the analysis. Covers more advanced statistical tools and computer software applications used in data analysis and interpretation.	3
Professional Core			15
HLT.SCI 304	Medical, Socio-Anthropological Basis of Health Care	Medical, sociological perspective of human behavior and the role of culture in the health and well-being of the people	3
HLT.SCI 305	Resources Management in Health Science	Deployment and allocation of resources: financial, material, human as well as information/communication technology resources.	3
HLT.SCI 306	Ethico-Legal Dimensions in Health Science Management	Laws, policies, regulations, standards set by government regulatory bodies and accredited professional organizations, and ethical principles applied to management and governance in higher education.	3
HLT.SCI 307	Management Information and Communication Systems in Health Sciences	Information systems, informatics and technology-based communication used in education.	3
HLT.SCI 308	Global Health and Policy Making	Major health laws and policies that have influenced the health care system as well as current legislation activity affecting global health.	3
Professional Major			15

OPTO.SCI 331	Advances in Ocular Biology, Biochemistry, and Pathophysiology	Research and advanced studies on the anatomy, physiology and biochemistry of the globe, related visual structures and the visual system. Includes the study of the anatomy, biochemistry of the tear function, vitreous, retina, optic nerve and the visual pathway and functional changes caused by disease related conditions.	3
OPTO.SCI 302	Advanced Clinical Optometry	Advanced studies and research on the clinical measure of vision loss resulting from various ophthalmic conditions together with the development and innovations of clinical techniques and procedures and management/ interventions. The course aims to advance and enhance the clinical competence and knowledge of the practitioner/ educator. (2 units lec / 1unit clinic rotation)	3
OPTO.SCI 342	Advanced Pediatric Optometry	Advanced studies and research on eye and vision development, the child's level of visual-perceptual development, clinical techniques and tests for assessment, characteristics of children who deviate from the normal pattern, vision problems associated with growth development, application of clinical intervention and management.	3
OPTO.SCI 344	Advances in Low Vision, Ageing, and Visual Impairment	Advanced studies and research on low vision, ageing, and visual impairment focused on the analysis of clinical and functional data collected, visual impairment based on evidences presented, approaches to LV intervention, design and management, training and rehabilitation.	3
OPTO.SCI 309	Special Topics in Vision Science	Topics in the fields of specialization which are not offered on a regular basis such as Cell and Molecular Biology as it relates to the eye and vision, Neurophysiology of Vision, Visual Motor Neuroscience, Technology and Optics, Occupation Health and Safety, Sports Vision.	3
Cognates			9
OPTO.SCI 310	Clinical Teaching and	Advanced studies and research on	3

	Supervision in Health Science	learning theories, current strategies and methods of clinical instruction, and evaluation techniques that will equip practitioner/ educator with the effective transfer of knowledge and skills to motivate learning.	
		Any two major subjects (300 level) in Curriculum and Supervision, Guidance & Counselling, Public Administration, and Southeast Asian Studies	6
Foreign Language			6
FRL 311	Foreign Language I	Knowledge of a foreign language enabling students to acquire at least a reading knowledge in the language. Readings on Spanish or Chinese (or any other foreign language) culture are to complement the oral and written exercises	3
FRL 312	Foreign Language II	Functional grammar with emphasis on intonation, pronunciation, vocabulary building and conversation.	3
Dissertation			12
RES 391	Dissertation I	Writing of an acceptable doctoral dissertation proposal that can contribute new knowledge or innovation to the research community and society.	6
RES 392	Dissertation II	Writing of acceptable and publishable journal articles based on findings of the research before a panel of evaluators and critics.	6