

DOCTOR OF PHILOSOPHY IN PHYSICS

The Doctor of Philosophy (Ph.D.)in Physics program is designed to provide students with advanced graduate training in physics, which will prepare them for scientific careers in academe, as well as industry. The strength of the department lies in solid state physics, semiconductor physics, materials science, theoretical physics, laser remote sensing, computational physics, and instrumentation.

A student with a Bachelor’s Degree may qualify for a straight Ph.D. program which carries 48 units of coursework, 3 units of seminar, and 12 units of dissertation. A student with a degree of M.S. Physics may qualify for the regular Ph.D. program requiring 27 units of coursework to be programmed by the Physics Department Graduate Committee based on courses taken during the M.S. Physics, 3 units of seminar, and 12 units of dissertation.

Program Requirements

Straight Ph.D. Program

Basic Courses	9 units
Major Courses	18 units
Elective Courses	21 units
Seminar	3 units
Comprehensive Examination	0 unit
Dissertation	12 units
TOTAL	63 units

Regular Ph.D. Program

Specialization and Breadth courses	27 units
Seminar	3 units
Candidacy Examination	0 unit
Dissertation	12 units
TOTAL	42 units

MASTER OF SCIENCE IN PHYSICS

The Master of Science in Physics program aims to develop competent manpower to fill the demands of industry and academe. At the end of the program, the students should have acquired a deeper understanding of the fundamental principles and concepts in physics. This would enable them to make creditable contributions to the research and development programs of industries involved in solid state physics, materials science, semiconductor physics, laser remote sensing, computational physics, and instrumentation.

Program Requirements

Basic Courses	9 units
Major Courses	15 units
Elective Courses	6 units
Comprehensive Examination	0 unit
Thesis	6 units
TOTAL	36 units

MASTER IN PHYSICS

Master in Physics aims to hone the skills of college physics teachers and produce graduates who have concrete understanding of the fundamental physical principles and techniques, with a capacity for quantitative and technical analysis. It is hoped that this will enable the graduates of the program to be critical thinkers able to conduct intelligent valuation of text and materials that they use in physical teaching. It is further hoped that graduates of the program understand the scope of applicability of physical theories and laws and are able to relate physical theories and concepts to practical situations.

Program Requirements

Advance Academic Writing	6 units
Basic Courses	15 units
Major Courses	18 units
Cognate/Elective Courses	3 units
Comprehensive Examination	0 unit
TOTAL	36 units

FACULTY PROFILE

Nelson B. Arboleda Jr.

Ph.D. in Engineering  
(Applied Physics)  
Osaka University  
Surface and Interface Physics  
Theoretical / Computational  
Physics

Melanie Y. David

Ph.D. in Engineering  
(Applied Physics)  
Osaka University  
Nanoscale Materials Modeling  
Theoretical/Computational  
Physics

Ma. Cecilia D. Galvez

Ph.D. in Physics  
University of the Philippines  
LIDAR

Shirley T. Palisoc

Ph.D. in Materials Science  
Okayama University  
Materials Science

Romeric F. Pobre

Ph.D. in Physics  
University of the Philippines  
Instrumentation Physics

Emmanuel T. Rodulfo

Ph.D. in Physics  
University of the Philippines  
Theoretical Physics

Robert C. Roleda

Ph.D. in Physics  
University of the Philippines  
Theoretical Physics

Lydia S. Roleda

Ph.D. in Physics  
De La Salle University  
Solid State Physics /  
Superconductivity

Gil Nonato C. Santos

Ph.D. in Materials Science and  
Engineering  
University of the Philippines  
Materials Science  
and Engineering

Joseph L. Scheiter FSC

Ph.D. in Education  
University of Sto. Tomas  
Physics Education

Jade D. Trono

Ph.D. in Nuclear Engineering  
and Management  
University of Tokyo  
Nanobioengineering  
Biomedical Engineering/Physics

Edgar A. Vallar

Ph.D. in Physics  
University of the Philippines  
LIDAR

Associate Professorial

Lecturer:

Abbas Ibrahim Maarof

Ph.D. in Physics  
University of Reading, UK  
Nanotechnology

Visiting Professor:

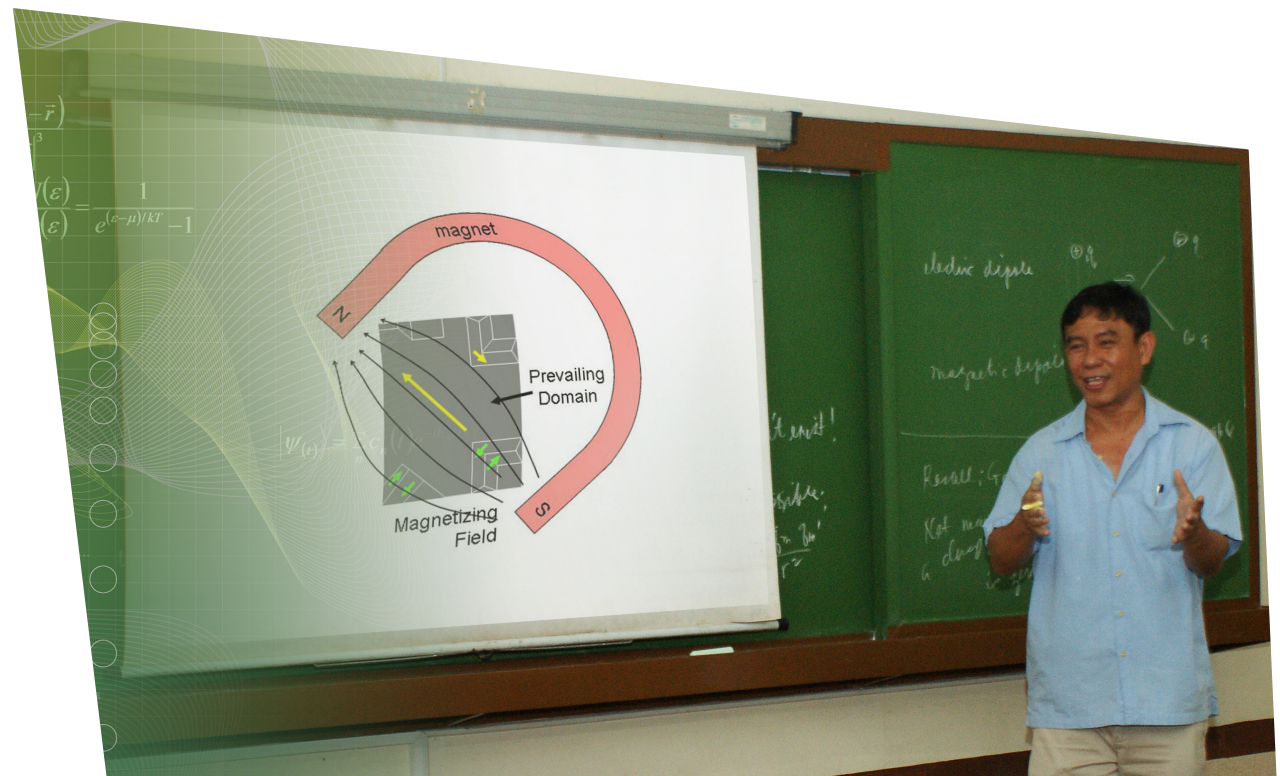
Dr. Vernon Morris

Director, NOAA  
Center for Atmospheric  
Sciences  
Howard University, USA

Board of Adviser:

Prof. Hideaki Kasai

Full Professor  
Osaka University  
Computational Materials  
Design



## ENTRY QUALIFICATION

- General average of 85%, B, 2.0 or higher.
- For the MS and Straight Ph.D. program: Bachelor’s degree in Physics or its equivalent.
- For the Ph.D. program: Masters degree in Physics or its equivalent.

Applicants who do not meet the minimum entry qualification for a graduate program may be advised to take preparatory or refresher courses prior to admission to the program.

## ACADEMIC LINKAGES

Osaka University, Japan  
Howard University, USA  
National Central University, Taiwan

## RESEARCH AREAS

Atmospheric Physics	Physics Education
Computational Materials Design	Remote Sensing
Instrumentation Physics	Solid State Physics
Light Detection and Ranging	Surface and Interface Physics
Materials Science	Superconductivity
Medical Physics	Theoretical Physics
Nanotechnology	

## FOR ADDITIONAL INFORMATION, WRITE, CALL, OR VISIT US:

### The Chair

Physics Department  
De La Salle University  
2401 Taft Avenue Manila  
(632) 536 0229  
(632) 524 4611 loc. 450

### Graduate Coordinator

email: p6.gscoor@dlsu.edu.ph

### The Dean

College of Science  
William Hall 208  
De La Salle University  
2401 Taft Avenue Manila  
(632) 524 0451  
(632) 524 4611

### Admissions Office

Room 101, St. La Salle Hall De La Salle University  
2401 Taft Avenue, Manila  
admissions@dlsu.edu.ph  
Tel Nos. (632)523 4230 (Direct) or (632)524 4611 locals 166 and 167



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## PHYSICS DEPARTMENT

The De La Salle University Physics Department is committed to develop lifelong learners who are logical, analytical, creative, and critical thinkers appreciative of God’s creation. The Department envisions itself as an advocate of effective educational practices in physics. The quest for nature’s fundamental laws is accompanied by a concerted search for relevant applications benefiting Philippine society.

## CAMPUS RESOURCES

DLSU provides a number of support services to graduate students. These include the University Library, Lasallian Pastoral Office, graduate student housing, research center, bookstore, audio-visual center, University Clinic, guidance office, internet facilities, among others.

## SCHOLARSHIPS

The University provides scholarship assistance through the Student Financial Assistance (SFA). Students who avail of this support must maintain a grade of 2.5 (for MS students) and 3.0 (for Ph.D. students). The scholarship requires a minimum load of 6 units for the duration of one term, renewable and subject to compliance with SFA guidelines.

In addition, De La Salle University - College of Science is recognized by both DOST and CHED as degree-granting institution for their scholarship programs.

**PHYSICS**  
GRADUATE  
PROGRAMS  
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Beyond Higher Learning.