



PHYSICS PROGRAMS AT DE LA SALLE UNIVERSITY

DLSU Physics majors are trained to solve problems with a minimum of assumptions and using only the most fundamental principles. Physicists are valued for their ability to solve novel problems that usually require innovative solutions. The development of technology in the past century has demonstrated that more often than not,

“The technology of tomorrow starts with Physics today.”

Knowledge develops so quickly today that competitiveness depends more on adaptability to the changes that occur at an ever-increasing pace. Much of these changes are due to globalization and rapid technological breakthroughs. Today, progress in a discipline is usually spurred by inputs from other disciplines.

Because the world is so complex, problems in the workplace require varied solutions. The combinations of skills and knowledge you have acquired from different disciplines will be your distinct mark and your comparative advantage. Recognizing these, the Physics Department of De La Salle University offers degree programs that provide students with flexibility and adaptability to the demands of the workplace.

Physics deals with
the fundamental
laws of nature, and
forms the backbone
of scientific
knowledge.

WE OFFER THE FOLLOWING PHYSICS PROGRAMS:

BS-PREMED PHYSICS

The BS Premed Physics program is a 9-trimester premed program, satisfying all requirements for a premed course, thus enabling graduates to proceed to medical school right away after passing the NMAT. The program offers a different perspective to preparation for medical school by concentrating on the applications of physics in medicine. It is envisioned that graduates of the program will become technologically adept and technically oriented physicians—traits that are increasingly useful in the modern practice of medicine. Being in a trimester program also allows for a shortened preparation for medical school by one year.

BS-PHYSICS WITH SPECIALIZATION IN MEDICAL INSTRUMENTATION

BS-Physics with specialization in Medical Instrumentation is an 11-trimester (plus one trimester practicum) program that prepares students for possible careers as medical physicists.

Aside from the core physics courses taken in a BS Physics program, the medical instrumentation track also has

- 25 units of Chemistry and Biology
- 35 units of Medical Instrumentation and Radiation Physics courses, including Electronics and Computer Programming

Graduates of the program can immediately work as associate medical physicists and can readily go to graduate programs in medical physics, to prepare for careers as full-fledged medical physicists.

Being a full physics program, graduates of this track are also open to other opportunities available to graduates of BS-Physics programs. Since the program already includes a substantial number of chemistry and biology courses, a student will only need to take a few more subjects to qualify to take the NMAT and proceed to medical school.

BS-PHYSICS WITH SPECIALIZATION IN MATERIALS SCIENCE

The Bachelor of Science in Physics with specialization in Materials Science is an 11-trimester full BS-Physics program enhanced with

- 25 units of courses in Materials Science
- 12 units in Electronics, and
- 12 units of Computer courses

The program provides a classic training of physicists, which is known to produce people who are highly skilled in mathematical analysis, and the technical know-how for a career in industry.

Aside from the traditional career in academe, graduates of the program will be especially prepared for a career in the semiconductor industry, which at present contributes to more than half of Philippine exports. Graduates of Physics programs typically work in product engineering, quality control, process engineering, and failure analysis.

BS-PHYSICS, MINOR IN ECONOMICS OR FINANCE

The Bachelor of Science in Physics Minor in Economics or Finance are 11-trimester programs that bring together a full BS-Physics program enhanced with additional courses in Applied Mathematics and Economics/Finance. As 39 units of the mathematical courses will be handled by the Mathematics Department, and all 24 units of Economics/Finance courses will be handled by the Economics/Finance Departments, students of the program will enjoy a multi-disciplinary training that combines the best of physics, mathematics, and economics/finance that would serve well for careers in economic or financial analysis.



RESEARCH AREAS

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

PRACTICUM

Cardinal Santos Medical Center
HSBC Philippines
Littelfuse Phils. Inc.
Macquarie Group
Makati Medical Center
Perpetual Help Medical Center
Philippine Nuclear Research Institute (PNRI)
Philippine Stock Exchange
St. Luke's Medical Center
Sunpower Philippines Manufacturing Ltd
TDK Fujitsu Philippines Corp.

PHYSICS DEPARTMENT

Direct Line: (632) 536 0229
Trunkline: (632) 524 4611 loc. 450

Department Chair
email: p6.ugcoor@dlsu.edu.ph

Or visit our website:

<http://www.dlsu.edu.ph/academics/colleges/cos/physics/default.asp>

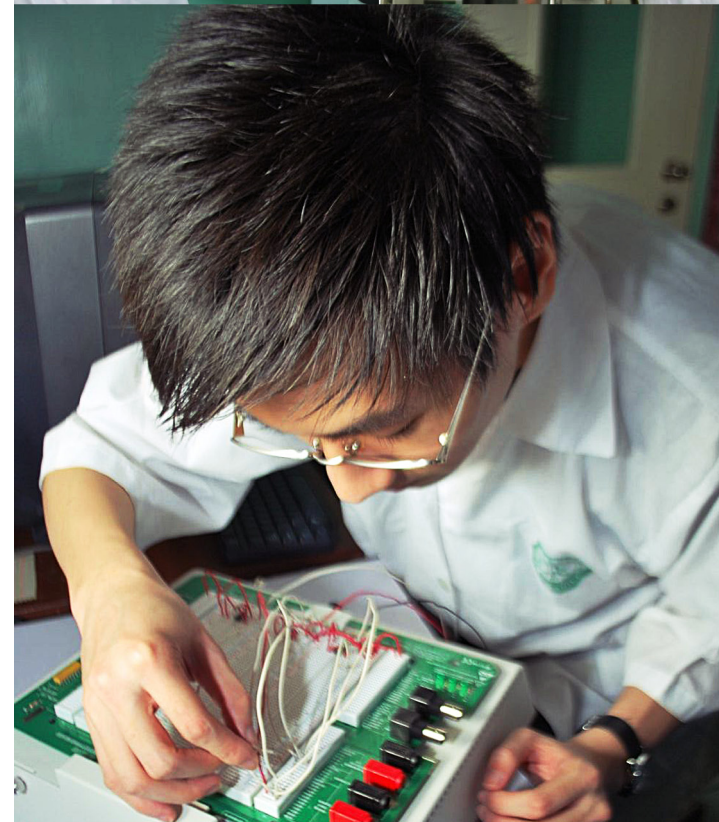
ADMISSIONS OFFICE

Br. Andrew Gonzalez 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
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