Physics and Pre-Engineering Department

1200 North DuPont Hwy.
Dover, DE 19901

Luna I. Mishoe Science Center South
Room 201
302-857-6659
Fax: 302-857-7482

Chairperson: Dr. Noureddine MELIKECHI
Professor: GLEESON, GWANMESIA, KHAN, MELIKECHI, PURDY
Associate Professor: MARCANO, ZERRAD
Assistant Professor: SABANAYAGAM

CURRICULUM OPTIONS IN PHYSICS

Students must get updated curriculum sheets from their advisors.

PHYSICS MAJOR: All students who select a major within the Department of Physics and Pre-Engineering must complete the general education program [1]as required of all students. In addition, students who wish to major in physics must take fifty-two (52) hours of Physics including the following Physics 201-202, 203, 204, 305, 311-312, 316, 323-324, 401-402, 404, 418; Chemistry 101-102; and nine (9) credits of technical electives.

Every non-teaching physics major must minor in mathematics. The minor program includes: Mathematics 251, 252, 253, 351, 451, 452.

PHYSICS EDUCATION: All students who select this major must complete the general education program [1]as required by all students. In addition, students who plan to teach on the secondary level must take 29 hours in Physics including: Physics 201- 202, 316, 323-324, 401, 409. Every physics teaching major must take Astronomy 101,; Biology 100; Chemistry 101-102; Mathematics 208, 251, 252, 253, 351; Education 204, 210, 309, 313, 318, 322, 355, 411, 412; Psychology 201, 204, 302; Geology 101; Ecology 205.

PHYSICS/PRE-ENGINEERING EMPHASIS: All students who select this major must complete the general education program [1] as required of all students. In addition, students must take Physics 200, 201-202, 203, 204, 311-312, 351-352; Engineering 105 or 106; Electrical Engineering 205, 210, 211, 220, 221, 309; Metallurgy 302; Chemistry 101-102; and nine credits of technical electives.

PHYSICS/MEDICAL EMPHASIS: All students who select this major must complete the general education program [1]as required of all students. In addition, students must take Physics 200, 201-202, 203, 204, 311-312, 341-342; Mathematics 251, 252, 253, 351; Engineering 105 or 106; Electrical Engineering 205, 210, 211, 220, 221; Chemistry 101-102; Biology 207, 208; and nine credits of technical electives.

PHYSICS MINOR: A student who desires a minor in physics must complete Physics 201, 202, 203, and twelve (12) additional hours of physics with the approval of the department.

COOPERATIVE ENGINEERING

See PRE-ENGINEERING PROGRAM [2] for program and course descriptions, and curriculum details (Students must get updated curriculum sheets from their advisors).

DUAL DEGREE OPTIONS:

PHYSICS/CIVIL ENGINEERING,
PHYSICS/ELECTRICAL ENGINEERING,
PHYSICS/MECHANICAL AEROSPACE ENGINEERING

After successfully completing all requirements for any of the above degrees, students receive a B.S. in physics from Delaware State University and a B.S. in an engineering discipline from the cooperating engineering institution.

SINGLE DEGREE OPTIONS:

CIVIL ENGINEERING
ELECTRICAL ENGINEERING
MECHANICAL ENGINEERING

For these options B.S. degrees are offered by the cooperating engineering school.

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Links
[1] http://www.desu.edu/general-education
[2] http://www.desu.edu/pre-engineering-program