Electrical Engineering and Engineering Physics

This dual-degree curriculum is particularly well suited for students seeking thorough preparation in the field of electronic device physics. It is a combination of the basic electrical engineering and engineering physics curricula and requires 162 credit hours, distributed over five years. The student will earn two degrees: B.S. in electrical engineering and B.S. in engineering physics.

Two alternative course sequences are listed below. Students who follow the EE-EP (EE first) course sequence will complete 135 credit hours, including all of the required electrical engineering courses, by the end of the fourth year and the remaining credit hours at the end of the fifth year. Since 134 credit hours are required for the electrical engineering degree, the student will complete the requirements for that degree at the end of the fourth year, and the requirements for the engineering physics degree at the end of the fifth year.

In the alternative EP-EE (EP first) course sequence, the student completes 133 credit hours by the end of the fourth year, including all the required physics courses, and the remaining credits at the end of the fifth year. Since 131 credit hours are required for the engineering physics degree, the student will complete the requirements for that degree at the end of the fourth year, and the requirements for the electrical engineering degree at the end of the fifth year.

Students interested in a dual-degree program combining physics (rather than engineering physics) and electrical engineering should consult the Physics section of this catalog. That program allows the student to earn the B.S. in physics and the B.S. in electrical engineering.

Students interested in either dual-degree program should contact Prof. Jerome Licini, Department of Physics.

THE RECOMMENDED SEQUENCES OF COURSES FOR THE TWO DIFFERENT EEEP SEQUENCES

EE-EP

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Credits in 4 yrs [135]

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- PHY 363 Physics of Solids 3
- PHY 369 Quantum Mechanics II 3
- PHY 352 Modern Optics 3
  or PHY 355 Nonlinear Optics
- PHY 348 Plasma Physics 3
  or PHY 365 Physics Of Fluids
- PHY 380 Introduction to Computational Physics 3

The ECE-approved electives must be approved by the student’s advisor.

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