

ENGINEERING PHYSICS CONCENTRATION, PHYSICS (BS)

DePaul University offers a joint program with Illinois Institute of Technology (IIT) in physics and engineering. This program allows students to enroll in courses at IIT while remaining full-time DePaul students. Students will receive a BS degree in Physics from DePaul University and a BS degree in Mechanical, Aerospace, Electrical, or Computer Engineering from IIT upon completion of the five year program.¹

Students interested in Engineering Physics or the joint program should promptly consult with a Physics Department advisor for information about scheduling, requirements, and admission to the joint program.

¹ Courses taken at an external institution such as IIT are excluded from the university's employee tuition waiver benefit program.

Course Requirements

Course	Title	Quarter Hours
Select one of the following:		4
PHY 370	ELECTRONICS (required for Mechanical/Aerospace)	
PHY 340	THERMAL PHYSICS (required for Electrical/Computer)	
Select one of the following two course sequences: ¹		8
Electromagnetism Sequence		
PHY 320 & PHY 321	ELECTRICITY AND MAGNETISM I and ELECTRICITY AND MAGNETISM II	
Quantum Mechanics Sequence		
PHY 360 & PHY 361	QUANTUM MECHANICS I and QUANTUM MECHANICS II	
Select two additional physics courses at the 300 or 400 level as approved by advisor		8

¹ Electrical Engineering students should take PHY 320 and PHY 321.

Mathematics

Course	Title	Quarter Hours
MAT 261	MULTIVARIABLE CALCULUS II	

Computer Science

Course	Title	Quarter Hours
CSC 241	INTRODUCTION TO COMPUTER SCIENCE I	
CSC 242	INTRODUCTION TO COMPUTER SCIENCE II	

¹ Electrical/Computer students must also take

Chemistry

Course	Title	Quarter Hours
CHE 130 & CHE 131	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY	
CHE 132 & CHE 133	GENERAL CHEMISTRY II and GENERAL CHEMISTRY LABORATORY II	

Engineering

- Approved twenty quarter hours at 300/400 level from the Mechanical, Aerospace, Electrical/Computer Engineering program at Illinois Institute of Technology (IIT). Students interested in obtaining a BS in Physics with the Engineering Physics concentration must be accepted into one of these programs at IIT as part of the DePaul-IIT Joint Engineering Program. Note that, in addition to the engineering courses mentioned above, students must take at least four courses at the 200-level and at least 10 additional 300-level and 400-level courses at IIT to earn their engineering degree. (The total number of courses will be determined by IIT). Please contact the Physics Department for details.

Open Electives

Open elective credit also is required to meet the minimum graduation requirement of 192 hours.