

NAME: B.S. PHYSICS PRE-ENGINEERING - PHYE DATE:

UHP CURRICULUM: PHYSICS PRE-ENGINEERING -- 46 Credits

HONORS CORE CURRICULUM	Crs.	Grade
First-Year Seminar H121	3	
Ignatian Colloquium H193 or H194	1	
Social Justice Seminar H396	3	
Honors Ethics H215	3	
Subtotal	10	

MATH/ NATURAL SCIENCE REQUIREMENTS

Mathematics A257 or H257 Calculus I	4	
Chemistry A105/A107 Gen Chem I/Lab	3 + 1	
Chemistry A106/A108 Gen Chem II/Lab	3 + 1	
OR Biology A106/A107 Cells and Heredity/Lab	3 + 1	
Subtotal	12	

HONORS DISCIPLINARY REQUIREMENTS* (H295)**

History		
Philosophy		
Religious Studies		
Social Science		
Literature		
Creative Arts and Cultures		
Subtotal	12	

ADVANCED HONORS/ACC (H295 or U-Z courses)

English	3	
History	3	
Subtotal	6	

LANGUAGE Placement Level

Placement course	3	
Higher course	3	
Subtotal	6	

HONORS THESIS/CREDITS IN THE MAJOR

Subtotal	(6)
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*FYS, Social Justice Seminar, and Ethics may fulfill up to 6 crs. (or two disciplines) as determined by the UHP.

**The UHP reserves the right to determine which discipline an H295 course satisfies due to the inherent interdisciplinary nature of most H295 courses.

Courses include spoken language A100, A101, A200, A201; Classical language A100, A101, A250, A251-A499; or Cosc-A211, Cosc-A212, Math-A271

MAJOR31 Crs.

Intro Mechanics A101	4
Intro Mechanics Lab A103	1
Intro EM & Relativity A102	4
Intro EM Lab A104	1
Intro Waves and Quant. A240	3
Intro Thermal Physics A241	3
Classical Mechanics A340	4
Electricity and Magnetism A350	4
Adv. Laboratory Physics A445	3
Quantum Mechanics A450	4

Courses used in the major cannot also be used to satisfy requirements for a minor.

Common Curr.	39 crs.
Comm Curr Lang.	6 crs.
Major	31 crs.
Adjunct	16 crs.
General Elect.	2 crs.
Total	94 Crs.

ADJUNCT 16 Crs.

Intro Linear Algebra Math-A200	3
Calculus II Math-A258	4
Calculus III Math-A259	3
Intro to Differential Equa. Math-A310	3
Adv. Math Elective: (Choose one) A350, Differential Equations A410, Advanced Calculus I A415, Complex Variables	3

GENERAL ELECTIVES 2 Crs.

Students interested in engineering may acquire their pre-engineering training at Loyola and then transfer to a school of engineering to complete their studies. If the student successfully completes the courses listed on this page (i.e., 2.0 GPA in major courses and 2.0 GPA cumulative) and then transfers to a school of engineering and successfully completes the engineering degree there, Loyola will, upon official certification of student's engineering degree, award the B.S. Physics degree.

Loyola has a specific 3-2 program with the University of New Orleans.

For information about this program, see the Chair of the Department of Physics.

REQUIREMENTS ACROSS THE CURRICULUM (RAC)

Note: Cannot be satisfied with an Intro Comm Curr course

Catholic Tradition	
Diversity	
Premodern	

Use space for comments or for Minor Check-off.

GPA: Must achieve 2.0 in Major, Minor (if declared), and Loyola cumulative.

Math-A092 will not be used in total credits needed for degree.

*Note: Common Curriculum requirements are governed by the catalog year that a student is admitted.