Degree Program Course List (DPCL) of major requirements for Honors students entering Loyola in 2020-21

NAME: **B.S. PHYSICS PRE-ENGINEERING - PHYE** (CIP: 40.0801) **DATE:**

HONORS CURRICULUM - 39 Credits

Foundation Requirements Crs/Grd

First-Year Seminar H121 3_____

Ignatian Colloquium H193 or H194 1_____

Social Justice Seminar H396 3_____

Honors Ethics H215* (check off once completed) □

Disciplinary Requirements

Creative Arts & Culture (H-level or approved performance course(s))

_____ 3_____

History I H-level _____ 3_____

Literature I H-level _____ 3_____

History II or Literature II (H-level, HIST-A/Q/P200+ course, ENGL-N200+ course, or AP credit)

_____ 3_____

Mathematics A257 or H257 Calculus I 4_____

Chemistry A105/A107 Gen Chem I/Lab 3/1____

Philosophy I H-level _____ 3_____

Philosophy II (H-level or PHIL-U/W200+ course)

_____ 3_____

Religious Studies I H-level _____ 3_____

Religious Studies II (H-level or a 200+ RELS course)

_____ 3_____

*May be satisfied with an ethics course in the major; if not, an honors ethics course must be used to satisfy at least one Honors Disciplinary Requirement

**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., 3.3 cumulative GPA)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. Additionally, students who have completed the Honors curriculum, including three credits of independent research (whether at Loyola or the school of engineering) will receive certification of having completed the University Honors Program curriculum.*

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

MAJOR.....33 Crs

Intro to Physics and Engineering
A120_____1____

Intro Mechanics
A101_____4____

Mechanics Lab
A103_____1____

EM & Relativity
A102_____4____

EM Lab
A104_____1____

Intro Waves and Quant.
A240_____4____

Intro Thermal Physics
A241_____3____

Classical Mechanics
A340_____4____

Electricity and Magnetism
A350_____4____

Adv. Laboratory Physics
A445_____3____

Quantum Mechanics
A450_____4____

ADJUNCT.....20 Crs

Into Linear Algebra
Math-A200_____3____

Calculus II
Math-A258_____4____

Calculus III
Math-A259_____3____

Intro Differential Equations
Math-A310_____3____

**Adv. Math or Comp. Sci. course approved by advisor

_____3____

Choose: Chem-A106/108 or Biol-A106/107

_____3____

_____1____

In order to graduate from the University Honors Program, students are required to complete a 3-credit honors thesis. Students completing an engineering degree at another institution will be permitted to graduate from the University Honors Program, provided they have a 3-credit independent research thesis or project, at Loyola or at the other institution.

NOTES:

Honors requirements are governed by the catalog year that a student is admitted. See Bulletin/Bulletin Archives.

Courses used in the major cannot also be used to satisfy requirements for a minor: Non-major courses WILL be applied to minors as appropriate.

Honors GPA: Must 3.3 in Loyola cumulative.

**For students transferring to UNO, EE students take COSC A211 Intro to Programming I; ME students take MATH A350 Diff. Equations; CE students take MATH A260 Statistical Inference for Scientists

Use your Academic Progress Report (LORA > Student Records Menu > Academic Progress Report) to keep this document updated.

Honors Core…..…….. 39 crs
Major…….……..33 crs
Adjunct…...…….…..20 crs
Total ..…….....94 crs