

Degree Program Course List (DPCL) of major requirements for students entering Loyola in 2022-23

NAME:

B.S. PHYSICS PRE-ENGINEERING - PHYE/PHYS.BS.ENGR (CIP: 40.0801)

DATE:

| | | | | |
|--|---|---|--|---|
| <p>English Composition Placement is: Take ENGL T122, then choose a Writing About Literature (any N-coded course). AP, IB, CLEP, transfers, & dual-enrollment can fulfill each requirement. Students with WAL credit must still satisfy ENGL T122.</p> | <p>Mathematics Placement: See bulletin for criteria and see your Degree Audit Report for LUPL scores: ___ Register for Math A257 ___ Register for Math A118 ___ Register for Math A110</p> | <p>MAJOR.....33 Crs Intro to Physics and Engineering A120 _____ 1 ____ Intro Mechanics A101 _____ 4 ____ Mechanics Lab A103 _____ 1 ____</p> | <p>ADJUNCT.....20 Crs Into Linear Algebra Math-A200 _____ 3 ____ Calculus II Math-A258 _____ 4 ____ Calculus III Math-A259 _____ 3 ____</p> | <p>NOTES: Loyola Core requirements are governed by the catalog year that a student is admitted.</p> |
| <p align="center">LOYOLA CORE - 41 Credits</p> | | | | <p>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</p> |
| <p>FOUNDATION COURSES</p> <p>First-Year Seminar T121 _____ 3 ____ Engl T122: Critical Reading and Writing _____ 3 ____ Math A257: Calculus I _____ 4 ____ Sci I: Chem-A105/A107, General Chemistry I/Lab ___3+1___ 4 ____</p> | <p align="right">Crs/Grade</p> <p align="right">14</p> | <p>EM & Relativity A102 _____ 4 ____ EM Lab A104 _____ 1 ____</p> | <p>Intro Differential Equations Math-A310 _____ 3 ____ **Adv. Math or Comp. Sci. course approved by advisor _____ 3 ____</p> | <p>GPA: Must achieve 2.0 in Major, Minor (if declared), and Loyola cumulative.</p> |
| <p>KNOWLEDGE/VALUES COURSES</p> <p>Creative Arts and Cultures _____ 3 ____ Hist I: (any T# course) _____ 3 ____ Hist II (any Q# course) _____ 3 ____ Phil I: Reasoning _____ 3 ____ Phil II: Knowledge & Morality _____ 3 ____ Rels I: Christian Tradition _____ 3 ____ Rels II: World Religions _____ 3 ____ Social Science _____ 3 ____ Sci II: Chem-A106/108 or Biol-A106/107 (fulfilled in adjun 0 _____ Writing About Literature _____ 3 ____</p> | <p align="right">27</p> | <p>Intro Waves and Quant. A240 _____ 4 ____ Intro Thermal Physics A241 _____ 3 ____ Classical Mechanics A340 _____ 4 ____ Electricity and Magnetism A350 _____ 4 ____</p> | <p>Choose : Chem-A106/108 or Biol-A106/107 _____ 3 ____ _____ 1 ____</p> | <p>**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</p> |
| <p><i>*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.</i></p> | | <p>Adv. Laboratory Physics A445 _____ 3 ____ Quantum Mechanics A450 _____ 4 ____</p> | | <p>Use your Degree Audit Report to keep this document updated.</p> |
| <p><i>*For information about this program, see the Chair of the Department of Physics.</i></p> | | | | <p>Loyola Core..... 41 crs Major.....33 crs Adjunct.....20 crs Total94 crs</p> |