

UPenn Physics Major Requirements

Core Requirements (11 cu)

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|--|--|------------------------------------|
| <input type="checkbox"/> MATH 1400 | <input type="checkbox"/> PHYS 0150/0170 (1.5 cu) | <input type="checkbox"/> PHYS 3361 |
| <input type="checkbox"/> MATH 1410/MATH 1610 | <input type="checkbox"/> PHYS 0151/0171 (1.5 cu) | <input type="checkbox"/> PHYS 3362 |
| <input type="checkbox"/> MATH 2400/MATH 2600 | <input type="checkbox"/> PHYS 1230 | <input type="checkbox"/> PHYS 4411 |
| <input type="checkbox"/> MATH 2410/MATH 4250 | | |

Concentration Requirements

Phys. Theory/Experimental Technique (6.5 cu)

- PHYS 1250 (1.5 cu)
- PHYS 3351
- PHYS 4401
- PHYS Lab Course *
- PHYS 4412
- Any PHYS/ASTR 3300+

Chemical Principles (7.5 cu)

- PHYS 1250 (1.5 cu)
- PHYS 3351
- PHYS 4401
- CHEM 1012/CHEM 1151
- CHEM 1022/CHEM 1161
- CHEM 2210/2410
- CHEM 2220/2420

Computer Techniques (7.5 cu)

- PHYS 1250 (1.5 cu)
- PHYS 3351
- PHYS 4401
- PHYS Lab Course*
- Computer Elective*
- Computer Elective*
- Computer Elective*

Astrophysics (8.5cu)

- PHYS 1250 (1.5 cu)
- PHYS 3351
- ASTR 1211
- ASTR 1212
- PHYS 4401
- PHYS Lab Course *
- PHYS Lab Course *
- ADV. ASTR Course*

Business and Technology (8.5 cu)

- PHYS 1250 (1.5 cu)
- PHYS 3351
- PHYS 3364 or PHYS 4414
- PHYS Lab* or Computer Elective*
- Business Elective*
- Business Elective*
- Business Elective*
- Business Elective*

Biological Sciences (8 cu)

- PHYS 1240/1250
- PHYS 4401
- PHYS 2280
- BIOL 1121
- BIOL 2810/2010
- BIOL 2210
- Any BIOL 2000+
- Any BIOL 3000+

PHYS Labs Course = PHYS 3364/PHYS 4414/ASTR 1250/PHYS 2260/PHYS 3358/3359/3360

ADV. ASTR Course = PHYS 5503/PHYS 5505/PHYS 5526/PHYS 5530/ASTR 5503/ASTR 5533/PHYS 5533/ PHYS 5517

Business Elective = Any MGMT/FNCE/ACCT/ECON/STAT course 1000+

Computer Elective = CIS 1000+/ENGR1050/PHYS 2260/PHYS 3358/3359/3360