

## BS PHYSICS CHECKLIST: Requirements for Graduation

### UNIVERSITY REQUIREMENTS

ENGL 1013 \_\_\_\_\_  
 ENGL 1023 \_\_\_\_\_  
 Junior English \_\_\_\_\_  
 Government (choose 1) \_\_\_\_\_  
 HIST 2003 or 2013 \_\_\_\_\_  
 PLSC 2003 \_\_\_\_\_

### COLLEGE REQUIREMENTS

#### Arts {9 hours from 2 or more areas}:

ARCH 1003 (arch) \_\_\_\_\_  
 LARC 1003 (landsc arch) \_\_\_\_\_  
 ARHS 1003 (art lect.) \_\_\_\_\_  
 ARTS 1003 (art studio) \_\_\_\_\_  
 COMM 1003 (film) \_\_\_\_\_ Area I  
 DANC 1003 (dance) \_\_\_\_\_  
 DRAM 1003 (theater) \_\_\_\_\_  
 HUMN 1003 (aesthetics) \_\_\_\_\_  
 MLIT 1003 (music) \_\_\_\_\_  
 PHIL 2003, 2103, 2203 \_\_\_\_\_ Area II  
 Foreign Literature \_\_\_\_\_  
 World Literature: \_\_\_\_\_  
 WLIT 1113 \_\_\_\_\_  
 WLIT 1123 \_\_\_\_\_ Area III  
 Any world lit. \_\_\_\_\_  
 CLST 1003 (Greece) \_\_\_\_\_  
 CLST 1013 (Rome) \_\_\_\_\_

#### Western Civilization (both courses):

WCIV 1003 \_\_\_\_\_  
 WCIV 1013 \_\_\_\_\_

#### Social Sciences (choose 1):

ANTH 1023 \_\_\_\_\_  
 ECON 2013 or 2143 \_\_\_\_\_  
 GEOG 2103 or 2203 \_\_\_\_\_  
 PSYC 2003 \_\_\_\_\_  
 SOCI 2013 \_\_\_\_\_

#### Foreign Language (0 to 3 Courses)

\_\_\_\_\_ 1003 \_\_\_\_\_  
 \_\_\_\_\_ 1013 \_\_\_\_\_  
 \_\_\_\_\_ 2003 \_\_\_\_\_

#### Free Electives (to bring the total to 124 semester hours)

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### DEPARTMENTAL REQUIREMENTS

#### Mathematics (19 hours):

MATH 1285 (preCalc. not req.) \_\_\_\_\_  
 MATH 2554 (Calc I) \_\_\_\_\_  
 MATH 2564 (Calc II) \_\_\_\_\_  
 MATH 2574 (Calc III) \_\_\_\_\_  
 MATH 3404 (Diff Eqs.) \_\_\_\_\_  
 MATH 3423 (Adv.Appl. I) \_\_\_\_\_  
 or CSEG 4513 (software eng.) \_\_\_\_\_

#### Other science (8 hours: line 1 or 2, or 9 hours in last line):

CHEM 1103/1101L \_\_\_\_\_ and \_\_\_\_\_  
 1123/1121L \_\_\_\_\_  
 CENG 1113/1111L \_\_\_\_\_ and 1123/1121L \_\_\_\_\_  
 Or CENG 1113, CENG/CSCE 1123, 2143, or CSCE 3313.

#### Physics Core Requirements (24 hours):

PHYS 2054 (University Physics I) \_\_\_\_\_  
 PHYS 2050L (UP I Lab) \_\_\_\_\_  
 PHYS 2074 (University Physics II) \_\_\_\_\_  
 PHYS 2070L (UP II Lab) \_\_\_\_\_  
 PHYS 2094 (Univ. Phys. III) \_\_\_\_\_  
 PHYS 2090L (UP III Lab) \_\_\_\_\_  
 PHYS 3614 (Modern Physics) \_\_\_\_\_  
 PHYS 3414 (Electromagnetic Theory) \_\_\_\_\_  
 PHYS 4073 (Quantum Mechanics) \_\_\_\_\_  
 PHYS 4991 (Senior Seminar—writing) \_\_\_\_\_

#### Select One of Five Tracks (16 hours)

##### Professional Track:

PHYS 3113 (Analytical Mechanics) \_\_\_\_\_  
 PHYS 4333 (Thermal Physics) \_\_\_\_\_  
 +10 hours physics electives \_\_\_\_\_

##### Optics Track:

PHYS 3544 (Optics) \_\_\_\_\_  
 Optics Elective I (4 hours) \_\_\_\_\_  
 Optics Elective II (4 hours) \_\_\_\_\_  
 +4 hours physics electives \_\_\_\_\_

##### Electronics Track:

PHYS 2202 (Intro Electronics I) \_\_\_\_\_  
 PHYS 3204 (Intro Electronics II) \_\_\_\_\_  
 PHYS 4333 (Thermal Physics) \_\_\_\_\_  
 PHYS 4713 (Solid State) \_\_\_\_\_  
 +4 hours physics electives \_\_\_\_\_

##### Computational Track:

PHYS 3113 (Analytical Mechanics) \_\_\_\_\_  
 +13 hours physics, math, &  
 computer science electives \_\_\_\_\_

##### Biophysics Track:

PHYS 3113 (Analytical Mechanics) \_\_\_\_\_  
 +13 hours physics, biology, &  
 chemistry science electives \_\_\_\_\_

#### Physics Electives (requirements vary with track):

PHYS 306V (Projects) \_\_\_\_\_  
 PHYS 320V (Intro to Electronics II) \_\_\_\_\_  
 PHYS 3113 (Analytical Mechanics) \_\_\_\_\_  
 PHYS 3544/3540L (Optics & Lab) \_\_\_\_\_  
 PHYS 3923H (Honors Colloquium) \_\_\_\_\_  
 PHYS 399VH (Indep. Honors Study) \_\_\_\_\_  
 PHYS 4113 (Physics in Perspective) \_\_\_\_\_  
 PHYS 4213 (Physics of Devices) \_\_\_\_\_  
 PHYS 4333 (Thermal Physics) \_\_\_\_\_  
 PHYS 4621L (Modern Physics Lab) \_\_\_\_\_  
 PHYS 4653 (Subatomic Physics) \_\_\_\_\_  
 PHYS 4713 (Solid State Physics) \_\_\_\_\_  
 PHYS 4734 (Laser Physics) \_\_\_\_\_  
 PHYS 4754 (Nonlinear Optics) \_\_\_\_\_  
 PHYS 4774 (Optical Properties) \_\_\_\_\_  
 PHYS 4794 (Lightwave Comm.) \_\_\_\_\_  
 PHYS 4803 (Mathematical Physics) \_\_\_\_\_  
 PHYS 498V (Senior Thesis) \_\_\_\_\_  
 ASTR 3033 (Solar System) \_\_\_\_\_  
 ASTR 3053 (Stellar Systems) \_\_\_\_\_  
 ASTR 4013 (Astrophysics) \_\_\_\_\_

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