

# BS IN PHYSICS COURSE FLOWCHART w/teachHOUSTON

| Freshman  |   | Sophomore  |  | Summer  | Junior  |   | Senior   |  |
|---|---|--|--|---|---|---|--|--|
| Fall (15 hrs)   | Spring (16 hrs)   | Fall (17 hrs)  | Spring (16 hrs)  | (6 hrs)   | Fall (14 hrs)   | Spring (18 hrs)   | Fall (16 hrs)  | Spring (9 hrs)   |
| ENGL 1301<br>1st Year Writing I<br>(See course placement criteria web page)                         | ENGL 1302<br>1st Year Writing II<br>(ENGL 1301 or equiv)  | HIST 1377<br>US Hist. I<br>(No Prerequisite)                                       | HIST 1378<br>US Hist. II<br>(No Prerequisite)  | Life and Physical Sciences<br>*(See your advisor)*<br>3 hours | GOVT 2305<br>US & TX Politics<br>(No Prerequisite)  | GOVT 2306<br>US Gov't<br>(No Prerequisite)                        | PHYS 4342<br>Physics By Inquiry<br>3 hours<br><b>Fall Only</b>   | EDUC 4314<br>Student Teaching  |
| Social and Behavioral Sciences<br>(See core approved web page)***                                   | CHEM 1312<br>Fund. of Chem. II<br>(CHEM 1311)   | MATH 2318<br>Linear Algebra<br>(Credit or concurrent enrollment in MATH 2414)      | MATH 3331<br>Differential Eqn.<br>(MATH 2415 & MATH 2318)  | Life and Physical Sciences<br>*(See your advisor)*<br>3 hours | MATH 3363<br>Intro. PDE<br>(MATH 2415 & either MATH 3321 or MATH 3331)<br>Spring and Fall<br><b>OR</b><br>Math 4397 Math Methods in Physics I<br><b>Fall Only</b> | PHYS 4340<br>Research Methods for Physics<br>3 hours              | Language, Phil and Culture<br>(See core approved web page)***<br>3 hours   | EDUC 4315<br>Student Teaching Seminar                                    |
| CHEM 1311<br>Fund. Of Chem. I<br>(MATH 1314 & HS Chemistry or CHEM 1305)                            | CHEM 1112<br>Fund. Of Chem. Lab II<br>(Credit or concurrent enrollment in CHEM 1312)                          | MATH 2415<br>Calculus III<br>(MATH 2414)   | PHYS 3110<br>Adv. Lab. Analysis<br>(PHYS 2126 & PHYS 2326)<br><b>Spring and Fall</b>   |   |   | MATH 3364<br>Complex Analysis<br>(MATH 2415)<br>Spring and Fall   | PHYS 4321<br>Inter. Elec. Theory I<br>(PHYS 2326 and MATH 3363 or MATH 4397 Math Methods in Physics I)<br><b>Fall only</b>   | PHYS 4322<br>Inter. Elec. Theory II<br>(PHYS 4321)<br><b>Spring only</b> |
| CHEM 1111<br>Fund. of Chem. Lab I<br>(Credit or concurrent enrollment in CHEM 1311)                 | MATH 2414<br>Calculus II<br>(MATH 2413)   | PHYS 2326<br>Univ. of Physics II<br>(Credit or concurrent enrollment in MATH 2415) | PHYS 3315<br>Modern Physics<br>(PHYS 1301 and 1302, or PHYS 2326, and credit or concurrent enrollment in MATH 3331)<br><b>Spring and Fall</b>                        |   | PHYS 3316<br>Quantum Mechanics<br>(PHYS 3315)<br><b>Spring and Fall</b>   | PHYS 3327<br>Thermal Physics<br>(PHYS 3309)<br><b>Spring Only</b> | PHYS 3312 & PHYS 3112<br>Modern Optics and Lab<br>(PHYS 2326 or, with consent of instructor, PHYS 1302 & MATH 2415; Credit or concurrent enrollment in PHYS 3110 & PHYS 3312) <b>Spring Only</b><br><b>OR</b><br>PHYS 4421<br>Elect. Devices & App.<br>(PHYS 2126)<br><b>Fall Only</b> |  |
| MATH 2413<br>Calculus I<br>(MPE score of 65 or MATH 2312 or See course placement criteria web page) | PHYS 2325<br>Univ. Physics I<br>(Credit or concurrent enrollment in MATH 2414)                                | PHYS 2126<br>Physics Lab II<br>(Credit or concurrent enrollment in PHYS 2326)      | PHYS 3313<br>Adv. Lab I<br>(PHYS 2126, PHYS 2326, and credit or concurrent enrollment in PHYS 3315 and 3110)<br><b>Spring and Fall</b><br>*Satisfies WID requirement |   | PHYS 3214<br>Adv. Lab II<br>(PHYS 2126, 2326, 3315, and credit or concurrent enrollment in PHYS 3110)<br><b>Spring and Fall</b>                                   | Creative Arts (See core approved web page)***<br>3 hours          |  |  |
| CUIN 1101<br>STEP 1   | PHYS 2125<br>Univ. Physics Lab I<br>(Credit or concurrent enrollment in PHYS 2325)<br><br>CUIN 1102<br>STEP 2 | CUIN 3350<br>Knowing & Learning  | CUIN 3351<br>Classroom Interactions  |   | PHYS 3309<br>Intermediate Mech.<br>(MATH 3331 & PHYS 2326)<br><b>Fall Only</b>  | CUIN 3352<br>Perspectives   | CUIN 4350<br>Multiple Teaching Strategies  |  |

\*\*\* Approved Core \*\*\* <https://www.uh.edu/academics/corecurriculum/>

\*\* FYI \*\* Math Minor complete with 3 hours of a 4000 level MATH course (Satisfies NSM Capstone)

\* Computer classes recommended

\* Meet with your advisor before registering for all classes

\* 127 total hours/ 36 advanced hours

\*42 Physics hours (34 advanced Physics hours)

\* 2.0 Cumulative GPA, 2.0 Major GPA, and 2.0 Minor GPA

\* Last 30 hours must be taken at U of H

\* No more than 6 hrs in major course work below a C-