Name: **Date:**

PeopleSoft ID:

Checklist for BS in Physics

PHYSICS (42 Hours):

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		PHYS 2125	University Physics Lab I
		PHYS 2325	University Physics I
		PHYS 2126	University Physics Lab II
		PHYS 2326	University Physics II
		PHYS 3110	Advanced Lab Analysis
		PHYS 3313	Advanced Lab I
		PHYS 3214	Advanced Lab II
		PHYS 3309	Intermediate Mechanics
		PHYS 3312 & PHYS 3112	Modern Optics & Lab
		OR PHYS 4421	Electronic Devices & Applications
		PHYS 3315	Modern Physics I
		PHYS 3316	Quantum Mechanics
		PHYS 3327	Thermal Physics
		PHYS 4321	Intermediate Electromagnetic Theory I
		PHYS 4322	Intermediate Electromagnetic Theory II
		PHYS _3__	Advanced PHYS Elective - 3 hours
		PHYS _3__	Advanced PHYS Elective - 3 hours

CHEMISTRY (8 Hours):

		CHEM 1111	Fundamentals of Chemistry Lab I
		CHEM 1311	Fundamentals of Chemistry I
		CHEM 1112	Fundamentals of Chemistry Lab II
		CHEM 1312	Fundamentals of Chemistry II

MATHEMATICS (24 Hours):

		MATH 2413	Calculus I
		MATH 2414	Calculus II
		MATH 2318	Linear Algebra
		MATH 2415	Calculus III
		MATH 3331	Differential Equations
		MATH 3363	Intro to Partial Differential Equations
		OR MATH 4370	Mathematics for Physicists
		MATH 3364	Complex Analysis

NATURAL SCIENCES (6 Hours)**

		Approved 3 hours:
		Approved 3 hours:

****CANNOT BE OTHER PHYSICS COURSES****

CHECK UH CATALOG FOR ELIGIBILITY AND PRE-REQUISITES

Course options: BIOL 1306, 1307, 2301, 2302
GEOL 1302, 1303, 1304, 1340, 1345, 1347, 1370

FREE ELECTIVES

(Additional hours to complete a total of **120 hours**, including at least **36 advanced hours**)

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RULES YOU NEED TO KNOW:

1. MINIMUM of a **2.00 GPA** in cumulative, major, and minor GPA to graduate
2. **C- RULE**: MAXIMUM of **6 hours of grades below C-** allowed in UH PHYS courses
3. **PRE-REQ RULE:** Must earn **C- or better** in pre-requisite for PHYS courses
4. See **Residency Rule** here: https://publications.uh.edu/content.php?catoid=56&navoid=21157
5. MAXIMUM of 6 W's allowed during entire undergraduate career
6. MINIMUM of 36 advanced hours and 120 total hours to graduate
7. MAXIMUM of 66 lower level transfer hours may be applied towards UH degree

APPROVED ADVANCED PHYSICS ELECTIVES

(Check Catalog for Pre-Requisites)

PHYS 3305: Introduction to Astrophysics
PHYS 3312: Modern Optics
PHYS 4337: Introduction to Solid State Physics
PHYS 4421: Electronic Devices & their Applications
PHYS 4350: Computational Physics
PHYS 4356: Introduction to Particle Physics
PHYS 4360 Suborbital Methods in Space & Atmospheric Physics
PHYS 4370 Nanophysics
PHYS 4397: Selected Topics in Physics (With consent from the Physics Department)

NOTE:** ***Students are required to take either PHYS 3312 and 3112 OR PHYS 4421; however, the course the student does not take CAN be taken as a Physics elective.

Students in catalogs before 2011 are required to complete MATH 3335 Vector Analysis. Students in the 2011-2012 Catalog are required to complete MATH 3364 Complex Analysis.

NSM CAPSTONE (Minimum 6 Advanced Hours):

Must choose from one of the following:

- ☐ Minor
- ☐ Double Major
- ☐ Double Degree
- ☐ Senior Research Project
- ☐ Senior Honors Thesis
- ☐ teachHouston

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CORE (Check UH catalog or Core Website for Pre-Requisites)

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		COMMUNICATION (6 Hours):
		ENGL 1301 First Year Writing I
		ENGL 1302 First Year Writing II

		STATE REQUIREMENTS (12 Hours):
		American History (3 Hours)
		American History (3 Hours)
		GOVT 2305 U.S. Government: Congress, President, and Court
		GOVT 2306 U.S. and Texas Constitutions and Politics

		FROM APPROVED CORE LIST (12 Hours): Choose from UH Core Website
		Creative Arts (3 Hours)
		Language, Philosophy & Culture (3 Hours)
		Social & Behavioral Science (3 Hours)
		Writing in the Disciplines (3 Hours) ***

Advisor: _____

10.5.2026 AC