# Checklist for BS in Chemistry

## CHEMISTRY (50 Hours - At least 36 Advanced Hours):

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- CHEM 1111 Fundamentals of Chemistry Lab I
- CHEM 1331 Fundamentals of Chemistry I
- CHEM 1112 Fundamentals of Chemistry Lab II
- CHEM 1332 Fundamentals of Chemistry II
- CHEM 2133 Inorganic Chemistry Lab I
- CHEM 2233 Inorganic Chemistry I
- CHEM 3221 Fundamentals of Organic Chemistry Lab I
- CHEM 3331 Fundamentals of Organic Chemistry I
- CHEM 3222 Fundamentals of Organic Chemistry Lab II
- CHEM 3332 Fundamentals of Organic Chemistry II
- CHEM 3119 Analytical Chemistry Lab
- CHEM 3369 Analytical Chemistry
- CHEM 4270 Physical Chemistry Lab I
- CHEM 4370 Physical Chemistry I
- CHEM 4272 Physical Chemistry Lab II
- CHEM 4372 Physical Chemistry II
- CHEM 429 Inorganic Chemistry II
- CHEM 4115 Inorganic Chemistry Lab II
- CHEM 4365 Inorganic Chemistry II
- CHEM 4366 Fundamental Biochemistry
- CHEM 43___ 3 hrs advanced CHEM Elective*

## PHYSICS (8 Hours):

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- PHYS 1121 University Physics Lab I
- PHYS 1321 University Physics I
- PHYS 1122 University Physics Lab II
- PHYS 1322 University Physics II

## MATHEMATICS (15 Hours):

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- MATH 1431 Calculus I
- MATH 1432 Calculus II
- MATH 2433 Calculus III
- MATH 3321 Engineering Mathematics

## NATURAL SCIENCES (6 Hours)**

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**CANNOT BE OTHER CHEMISTRY OR BIOCHEMISTRY COURSES**

CHECK UH CATALOG FOR ELIGIBILITY AND PRE-REQUISITES

**COMMONLY-TAKEN COURSES ARE:**

- **Biol:** 1361, 1362;
- **Geol:** 1302, 1330, 1340, 1350, 1360, 1376;

### 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 CHEM courses
3. **Last 30 hours** must be exclusively completed at UH
4. **Maximum of 6 W's** allowed during entire undergraduate career
5. **Minimum of 36 advanced hours and 120 total hours** to graduate
6. **Maximum of 66 lower level transfer hours** may be applied towards UH degree
7. **At 60 hours, must request a Major Degree Plan "REQUIRED TO GRADUATE"**

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**EXAMPLES OF CHEMISTRY ELECTIVES**

- CHEM 4330 Polymer Chemistry
- CHEM 4364 Advanced Organic Chemistry

**Select Graduate Level Courses** (need consent of Chemistry Faculty Advisor)

**NOTE:** At least 15 credit hours must be hands-on laboratory experiences, that include a minimum of 450 contact hours in physical (i.e., not virtual or computer-based) laboratories.

**NSM CAPSTONE** (Minimum 6 Advanced Hours):

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

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

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**COMMUNICATION (6 Hours):**

- ENGL 1303 First Year Writing I
- ENGL 1304 First Year Writing II

**STATE REQUIREMENTS (12 Hours):**

- HIST 1376 or 1377 The United States to 1877
- MATH 1431 Calculus I
- HIST 1378 or 1379 The United States Since 1877
- MATH 1432 Calculus II
- POLS 1336 U.S. and Texas Constitutions and Politics
- MATH 2433 Calculus III
- POLS 1337 U.S. Government: Congress, President, and Court

**FROM APPROVED CORE LIST (12 Hours):** Choose from UH Core Website

- Creative Arts (3 Hours)
- Lang/Phil/Culture (3 Hours)
- Social & Behavioral Science (3 Hours)
- Writing in the Disciplines (3 Hours)

**FREE ELECTIVES**

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

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