# Checklist for BS in Biology

**BIOLOGY (38 Hours):**

- BIOL 1106: Biology for Science Majors I Lab
- BIOL 1306: Biology for Science Majors I
- BIOL 1107: Biology for Science Majors II Lab
- BIOL 1307: Biology for Science Majors II
- BIOL 3311: Advanced Methods and Writing in Genetics Lab **WID**
- BIOL 3301: Mendelian and Population Genetics
- BIOL 3306: Evolutionary Biology
- BIOL 4103: Integration of Biological Knowledge
- BIOL 4374: Cellular Biology
- BCHS 3304: General Biochemistry
- OR BIOL 4206: Ecology and Evolution Lab
- OR BIOL 4272: Cellular Biology Lab
- OR BCHS 3201: General Biochemistry Lab

**CHEMISTRY (12 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
- CHEM 2123: Organic Chemistry Lab I
- CHEM 2323: Organic Chemistry I

**PHYSICS (8 Hours):**

- PHYS 1101: College Physics I Lab
- PHYS 1301: College Physics I
- PHYS 1102: College Physics II Lab
- PHYS 1302: College Physics II
- OR PHYS 2125: University Physics Lab I
- PHYS 2325: University Physics I
- PHYS 2126: University Physics Lab II
- PHYS 2326: University Physics II

**MATHEMATICS (12 Hours):**

- MATH 2413: Calculus I
- MATH 2414: Calculus II
- MATH 2415: Calculus III
- OR MATH 3338: Probability
- OR MATH 3339: Statistics for the Sciences

**FREE ELECTIVES**

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

**RULES YOU NEED TO KNOW:**

- **Numbers in parentheses indicate UH course numbers prior to Fall 2021.**
- 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 BIOL courses
- 3. PRE-REQ RULE: Must earn a C- or better in all BIOL courses
- 4. LAST 30 hours must be exclusively completed at UH
- 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

**EXAMPLES OF BIOLOGY ELECTIVES**

- BIOL 2301/2302: Anatomy & Physiology I/II
- BIOL 2321: Microbiology for Science Majors
- BIOL 3304: The Biology of Social Behavior**
- BIOL 3305: Biodiversity**
- BIOL 3324: Human Physiology
- BIOL 3326: History and Philosophy of Biology**
- BIOL 3330: Biological Field Research**
- BIOL 3341: Human Genetics
- BIOL 3345: Plant Physiology**
- BIOL 3350: Science Communication Strategies**
- BIOL 3368: Ecology**
- BIOL 4315: Neuroscience**
- BIOL 4320: Molecular Biology**
- BIOL 4323: Immunology**
- BIOL 4324: Bioinformatics**
- BIOL 4347: Animal Behavior**
- BIOL 4354: Endocrinology**
- BIOL 4355: Human Virology**
- BIOL 4373: Microbial Physiology**
- BIOL 3397/4397: Selected Topics**
- CHEM 1112: Fundamentals of Chemistry Lab II
- CHEM 2326: University Physics II

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

- Must choose from one of the following:
  - Minor
  - Senior Research Project
  - Double Major
  - Senior Honors Thesis
  - Dual Degree
  - teachHouston

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

**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 Sciences (3 Hours)

**See BIOL 3311: Writing in the Disciplines (3 Hours)**

Advisor: [Name]