Checklist for BS in Biochemistry

**BIOCHEMISTRY (29 Hours):**

- BCHS 3201 Biochemistry I LAB Fall, Spring
- BCHS 3304 General Biochemistry I Fall, Spring
- BCHS 3305 General Biochemistry II Fall, Spring
- BCHS 4304 Biophysics Spring
- BCHS 4306 Nucleic Acids Fall
- BCHS 4307 Proteins Spring
- BCHS 33 3 hours Advanced BCHS Elective*
- BCHS 33 3 hours Advanced BCHS Elective*
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**BIOLOGY (11 Hours):**

- BIOL 1161 Intro to Biological Science I LAB Fall, Sum I
- BIOL 1361 Intro to Biological Science I Fall, Sum I
- BIOL 1162 Intro to Biological Science II LAB Spring, Sum II
- BIOL 1362 Intro to Biological Science II Spring, Sum II
- BIOL 3301 Genetics Fall, Spring

**CHEMISTRY (21 Hours):**

- 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 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 4370 Physical Chemistry
- OR CHEM 4373 Survey of Physical Chemistry

**PHYSICS (8 Hours):**

- PHYS 1101 Introductory General Physics Lab I
- PHYS 1301 Introductory General Physics Lecture I
- PHYS 1102 Introductory General Physics Lab II
- PHYS 1302 Introductory General Physics Lecture II
- OR PHYS 1121 University Physics Lab I
- PHYS 1321 University Physics I
- PHYS 1122 University Physics Lab II
- PHYS 1322 University Physics II

**MATHEMATICS (12 Hours):**

- MATH 1431 Calculus I
- MATH 1432 Calculus II
- MATH 2433 Calculus III
- OR MATH 3338 Probability Fall, Spring
- OR MATH 3339 Statistics for the Sciences Fall, Spring

**EXAMPLES OF BIOCHEMISTRY ELECTIVES**

- BCHS 4312 Molecular Modeling of Biological Macromolecules**
- BCHS 4313 Cell Biochemistry Fall, Spring
- BCHS 4314 Biochemistry of Lipids and Carbohydrates**
- BCHS 4321 Genomics and Proteomics**
- BCHS 4322 Biochemistry of Organelles**
- BCHS 4324 Bioinformatics for Biologists**
- BCHS 4325 Molecular Microbiology**
- BCHS 4361 Clinical Biochemistry**
- BCHS 4397 Selected Topics**

**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

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

**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
- HIST 1387 or 1379 The United States Since 1877
- POLS 1336 U.S. and Texas Constitutions and Politics
- POLS 1337 U.S. Government: Congress, President, and Court

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

- Language, Philosophy & Culture (3 Hours)
- Creative Arts (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)

**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 BIOL 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"

Advisor: ________________________________

VN 06.13.2014