**HALMOS COLLEGE OF NATURAL SCIENCES AND OCEANOGRAPHY**
**SAMPLE FOUR YEAR CURRICULUM | 2025-2026 CATALOG**
**Bachelor of Science - Chemistry: American Chemical Society Track**

| Freshman Year | | | |
|---|---|---|---|
| **Fall** | | **Winter** | |
| Course | Credits | Course | Credits |
| UNIV 1000: First Year Seminar | 3 | Open Written Communication | 3 |
| Open Written Communication | 3 | Open Arts & Humanities | 3 |
| BIOL 1500 Biology I/Lab | 4 | CHEM 1310 General Chemistry II/Lab | 4 |
| CHEM 1300 General Chemistry I/Lab | 4 | MATH 2200 Calculus II | 4 |
| MATH 2100 Calculus I* | 4 | | |
| **Total Credits** | **18** | **Total Credits** | **14** |
| **Sophomore Year** | | | |
| **Fall** | | **Winter** | |
| Course | Credits | Course | Credits |
| Open Social & Behavioral Sciences | 3 | Open Social & Behavioral Sciences | 3 |
| CHEM 2400 Organic Chemistry I/Lab | 4 | Open Arts & Humanities | 3 |
| MATH 3200 Calculus III** | 4 | CHEM 2410 Organic Chemistry II/Lab | 4 |
| PHYS 2400 Physics I/Lab | 4 | PHYS 2500 Physics II/Lab | 4 |
| **Total Credits** | **15** | **Total Credits** | **14** |
| **Junior Year** | | | |
| **Fall** | | **Winter** | |
| Course | Credits | Course | Credits |
| CHEM 3460 Quantitative Analysis /Lab | 4 | CHEM 3050 Chemical Literature and Seminar | 3 |
| CHEM 3700 Physical Chemistry I/Lab | 4 | CHEM 3710 Physical Chemistry II/Lab | 4 |
| CHEM 4990 Independent Study in Chemistry | 3 | CHEM 4150 Chemical Instrumentation | 4 |
| Open Elective | 3 | Open Elective | 3 |
| **Total Credits** | **14** | **Total Credits** | **14** |
| **Senior Year** | | | |
| **Fall** | | **Winter** | |
| Course | Credits | Course | Credits |
| CHEM 4005 Inorganic Chemistry I | 3 | CHEM 4101 Senior Chemistry Seminar | 1 |
| CHEM 3660 Biochemistry I/Lab | 3 | CHEM 4010 Inorganic Chemistry II/Lab | 5 |
| Open Elective | 3 | Open Elective | 3 |
| Open Elective | 3 | Open Elective | 3 |
| Open Elective | 3 | Open Elective | 3 |
| **Total Credits** | **15** | **Total Credits** | **15** |

**TOTAL CREDITS 120**

**This sample plan is based on the student beginning at least at the level of MATH 2100: Calculus I.*

***NOTE: This requirement may also be fulfilled by completing MATH 3400: Ordinary Differential Equations, which is offered each Winter.*