



## Bachelor of Science in Physical Sciences (Chemistry Concentration) (120 hours)

This table shows a sample recommended course sequence for this degree based on the **UHD 2026-27 Undergraduate Catalog**. Students should verify degree requirements and registration plans with an advisor to ensure accuracy. Please note that some degrees and colleges have specific GPA and other requirements. Courses with asterisks (\*) indicate Common Core courses.

### First Year (Freshman 0-29 hrs)

| Semester 1                       | Hours     | Grade | TCCNS          | ACGM                       | Semester 2                       | Hours     | Grade | TCCNS          | ACGM                        |
|----------------------------------|-----------|-------|----------------|----------------------------|----------------------------------|-----------|-------|----------------|-----------------------------|
| ENG 1301*                        | 3         |       | ENGL 1301      | Composition I              | ENG 1302*                        | 3         |       | ENGL 1302      | Composition II              |
| MATH 2401                        | 4         |       | MATH 2413      | Calculus I                 | CHEM 1308/1108*                  | 4         |       | CHEM 1312/1112 | General Chemistry II w/ Lab |
| CHEM 1307/1107*                  | 4         |       | CHEM 1311/1111 | General Chemistry I w/ Lab | POLS 2305*                       | 3         |       | GOVT 2305      | Federal Government          |
| UHD 1303*<br>(Freshman Seminar*) | 3         |       |                |                            | Language, Philosophy, & Culture* | 3         |       |                |                             |
| <b>Total Hours</b>               | <b>14</b> |       |                |                            | <b>Total Hours</b>               | <b>13</b> |       |                |                             |

### Second Year (Sophomore 30-59 hrs)

| Semester 1                           | Hours     | Grade | TCCNS          | ACGM                    | Semester 2                             | Hours     | Grade | TCCNS          | ACGM                      |
|--------------------------------------|-----------|-------|----------------|-------------------------|----------------------------------------|-----------|-------|----------------|---------------------------|
| CS 1411<br>(Intro to CS w/ Python)   | 4         |       |                |                         | GEOL 1306/1106<br>(Historical Geology) | 4         |       | GEOL 1304/1104 | Historical Geology w/ Lab |
| GEOL 1305/1105<br>(Physical Geology) | 4         |       | GEOL 1303/1103 | Physical Geology w/ Lab | Oral Communication *                   | 3         |       |                |                           |
| POLS 2306*                           | 3         |       | GOVT 2306      | Texas Government        | Social and Behavioral Sciences Course* | 3         |       |                |                           |
| CHEM 2301/2101<br>(Organic Chem I)   | 4         |       |                |                         | PHYS 1307/1107                         | 4         |       | PHYS 1301/1101 | Physics w/ Lab            |
| <b>Total Hours</b>                   | <b>15</b> |       |                |                         | <b>Total Hours</b>                     | <b>14</b> |       |                |                           |

### Third Year (Junior 60-89 hrs)

| Semester 1            | Hours | Grade | TCCNS | ACGM | Semester 2                                      | Hours | Grade | TCCNS | ACGM |
|-----------------------|-------|-------|-------|------|-------------------------------------------------|-------|-------|-------|------|
| Creative Arts Course* | 3     |       |       |      | CHEM 4410<br>(Instrumental Methods of Analysis) | 4     |       |       |      |

|                                                        |              |              |                |                           |                                      |              |              |              |             |
|--------------------------------------------------------|--------------|--------------|----------------|---------------------------|--------------------------------------|--------------|--------------|--------------|-------------|
| <b>CHEM 3310/3110</b><br>(Quantitative Analysis & Lab) | 4            |              |                |                           | <b>American History Course*</b>      | 3            |              |              |             |
| <b>PHYS 1308/1108</b>                                  | 4            |              | PHYS 1302/1102 | College Physics II w/ Lab | <b>Chemistry Conc Hours</b>          | 4            |              |              |             |
| <b>American History</b>                                | 3            |              |                |                           | <b>Upper Level Elective</b>          | 3            |              |              |             |
| <b>Upper Level Science Elective</b>                    | 3            |              |                |                           |                                      |              |              |              |             |
| <b>Total Hours</b>                                     | <b>17</b>    |              |                |                           | <b>Total Hours</b>                   | <b>14</b>    |              |              |             |
| <b>Fourth Year (Senior 90-120 hrs)</b>                 |              |              |                |                           |                                      |              |              |              |             |
| <b>Semester 1</b>                                      | <b>Hours</b> | <b>Grade</b> | <b>TCCNS</b>   | <b>ACGM</b>               | <b>Semester 2</b>                    | <b>Hours</b> | <b>Grade</b> | <b>TCCNS</b> | <b>ACGM</b> |
| <b>CHEM 3300</b><br>(Chem Conc Hrs)                    | 3            |              |                |                           | <b>Chemistry Conc Hours</b>          | 3            |              |              |             |
| <b>Upper Level Science Elective</b>                    | 3            |              |                |                           | <b>Upper Level Science Elective</b>  | 3            |              |              |             |
| <b>Upper Level Elective</b>                            | 3            |              |                |                           | <b>Upper Level Elective</b>          | 3            |              |              |             |
| <b>Upper Level Elective</b>                            | 3            |              |                |                           | <b>Upper Level Elective</b>          | 2            |              |              |             |
| <b>Upper Level Science Elective</b>                    | 3            |              |                |                           | <b>Free Electives</b><br>(if needed) | 4            |              |              |             |
| <b>Free Electives</b><br>(if needed)                   | 3            |              |                |                           |                                      |              |              |              |             |
| <b>Total Hours</b>                                     | <b>18</b>    |              |                |                           | <b>Total Hours</b>                   | <b>15</b>    |              |              |             |