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**CURRICULUJM 1: PROFESSIONQAL CHEMISTRY-ACS APPROVED**

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| FRESHMEN YEAR |
| *Fall*  |  |  | *Spring* |  |
| CHEM 1110/1111 OR 1112/ 1113 | 4 |  | CHEM 1120/ 1121 OR 1122/ 1123 | 4 |
| ENGL 1010 | 3 |  | ENGL 1020\* | 3 |
| MATH 1910 | 4 |  | MATH 1920 | 4 |
| UNIV 1000\* | 1 |  | SOC/BEH SCI | 3 |
| HUMANITIES\*\*  | 3 |  | COMM 2200 | 3 |
| Total Hours | **15** |  | **Total Hours**  | **17** |

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| SOPHOMORE YEAR |
| *Fall*  |  |  | *Spring* |  |
| CHEM 2100/2101 | 4 |  | CHEM 2020/2021 OR 2022/2023 | 4 |
| CHEM 2010/ 2011 OR 2012/ 2013 | 4 |  | HUMANITIES\* | 3 |
| ENGL LIT\* | 3 |  | HIST 2010 | 3 |
| PHYS 2110/2111 | 4 |  | PHYS 2120/2121 | 4 |
| Total Hours | **15** |  | **Total Hours** | **14** |

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| JUNIOR YEAR |
| *Fall* |  |  | *Spring* |  |
| Semester 5 | Hrs. |  | Semester 6 | Hrs. |
| CHEM 3210/3211 | 4 |  | CHEM 3220/ 3221 | 4 |
| CHEM 4200/4201 | 4 |  | CHEM 4100 | 2 |
| MATH/SCIENCE ELECTIVE\* | 3 |  | CHEM 4210 | 3 |
| LOWER OR UPPER DIVISION ELECTIVE\*\*  | 2 |  | MATH/SCIENCE ELECTIVE\* | 3 |
| HIST 2020 | 3 |  | SOC/BEH SCI | 3 |
| Total Hours | 16 |  | Total Hours | 15 |

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| SENIOR YEAR |
| *Fall* |  |  | *Spring* |  |
| CHEM 3410 | 3 |  |  |  |
| CHEM 4505 | 2 |  | CHEM 4320/4321 | 4 |
| CHEM 4910 | 1 |  | CHEM 4506 | 2 |
| CHEM ELECTIVE | 3 |  | CHEM 4920 | 1 |
| UPPER DIVISION ELECTIVE\* | 3 |  | CHEM ELECTIVES | 3 |
| UPPER DIVIDION ELECTIVE\* | 3 |  | CHEM 3420 | 3 |
| TOTAL HOURS | 15 |  | TOTAL HOURS | 13 |