

| YEAR TERM | | CHEMISTRY/BIOLOGY | | | GENERAL ELECTIVES | MATH/PHYSICS | | CORE | | TOTAL CREDITS |
|-----------|--------|--|---|--|---------------------------|--|---|---|--|---------------|
| YEAR 1 | FALL | CHEM 110 4 GENERAL CHEMISTRY I Co-Req: MATH 135 or higher | | | | MATH 141** 4 PRECALCULUS Pre-Req: Placement Exam or MATH 101 | | FCWR 101* 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100 | FCSC 101 3 FOUNDATIONS OF SCIENTIFIC PROCESS | 14 |
| | SPRING | CHEM 150 4 GENERAL CHEMISTRY II Pre-Req: CHEM 110 | BIOL 110 4 GENERAL BIOLOGY I | | | MATH 170 4 CALCULUS I Pre-Req: Placement Exam, MATH 141, MATH 136, TMAT 155 | | FCWR 151* 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101 | | 15 |
| YEAR 2 | FALL | CHEM 210 4 ORGANIC CHEMISTRY I Pre-Req: CHEM 150 | | | | MATH 180 4 CALCULUS II Pre-Req: MATH 170 | PHYS 170/ 4/5 PHYS 175 PHYSICS REQUIREMENT Co-Req: MATH 170 | FCIQ 101 3 FOUNDATIONS OF INQUIRY | | 15 |
| | SPRING | CHEM 250 4 ORGANIC CHEMISTRY II Pre-Req: CHEM 210 | | | GENERAL ELECTIVE 3 | MATH 235 3 APPLIED STATISTICS Pre-Req: MATH 170 --- OR --- MATH 310 3 LINEAR ALGEBRA Pre-Req: MATH 180 | PHYS 180/ 4/5 PHYS 185 PHYSICS REQUIREMENT Pre-Req: PHYS 170 or PHYS 175 Co-Req: MATH 180 | FCSP 105 3 FOUNDATIONS OF SPEECH COMMUNICATION | | 17 |
| YEAR 3 | FALL | CHEM 310 4 QUANTITATIVE ANALYSIS Pre-Req: CHEM 150 | BIOL 340 4 BIOCHEMISTRY Pre-Req: BIOL 150 and CHEM 210 | | GENERAL ELECTIVE 3 | | | FCWR 304 or 3 FCWR 302 COMMUNICATION FOR TECH. PROFESSIONS OR HEALTHCARE CAREERS Pre-Req: FCWR 151 | ICPH 3XX*** 3 PHILOSOPHY CHOICE | 17 |
| | SPRING | CHEM 350 3 INSTRUMENTAL ANALYSIS Pre-Req: CHEM 310 | CHEM 410 4 PHYSICAL CHEMISTRY I Pre-Req: CHEM 310; Co-Req: MATH 170 | CHEM 395 3 INTRODUCTION TO RESEARCH DESIGN Pre-Req: Any 300 level CHEM course | GENERAL ELECTIVE 3 | | | ICBS 3XX*** 3 BEHAVIORAL SCIENCE CHOICE | | 16 |
| YEAR 4 | FALL | CHEM 493 3 INDEPENDENT RESEARCH III Pre-Req: CHEM 395 | CHEM 450 4 PHYSICAL CHEMISTRY II Pre-Req: CHEM 410 Co-Req: MATH 180 | SCIENCE ELECTIVE 3 (3 or 4 credits) | | | | ICLT 3XX*** 3 LITERATURE CHOICE | | 14 |
| | SPRING | CHEM 494 4 INDEPENDENT RESEARCH IV Pre-Req: CHEM 395 | SCIENCE ELECTIVE 3 (3 or 4 credits) | SCIENCE ELECTIVE 3 (3 or 4 credits) | GENERAL ELECTIVE 3 | | | ICSS 3XX*** 3 SOCIAL SCIENCES CHOICE | | 16 |

CREDITS 124-127

| Science Elective Options (credits) | Manhattan | Old Westbury | |
|--|-------------|-----------------|--|
| CHEM 320 ENVIRONMENTAL CHEMISTRY (3) | FALL ONLY | AS NEEDED | *Non-native English speakers take FCWR 111 instead of FCWR 101, and FCWR 161 instead of FCWR 151. ** Some students must take both MATH 135 and MATH 136. Both courses are the equivalent of MATH 141. ***Seminar pre-requisites include: FCWR 151, FCIQ 101, FCSC 101, and FCSP 105. Course names, numbers and/or pre-requisites are subject to change. (Rev. 05/19) |
| CHEM 470 INORGANIC CHEMISTRY (3) | FALL ONLY | FALL ONLY | |
| CHEM 420 PHARMACEUTICAL CHEMISTRY (3) | SPRING ONLY | SPRING ONLY | |
| BIOL 210 HUMAN GROSS ANATOMY (4) | SPRING ONLY | FALL and SPRING | |
| BIOL 310 HUMAN PHYSIOLOGY (4) | FALL ONLY | FALL and SPRING | |