### Mercyhurst REACH Curriculum

#### First Year Experience
- ( ) iMU 101 – Introduction to Mercyhurst
- ( ) iMU 102 – Involvement at Mercyhurst
- ( ) COMP 120 – Writing and Research

#### Liberal Arts Experience
- Reason and Faith: **CST, PHIL, RLST**
- ( ) Course 1
- ( ) Course 2

- Expression: **ENG, ART, DANC, MUS, THEA**
  - ( ) ENG
  - ( ) Course 2

- Analytical
  - (✓) CHEM 121/122 – General Chemistry I /Lab
  - (✓) MATH 171 – Calculus I

- Contexts and Systems: **ECON, HIS, POLI**
  - ( ) Course 1
  - ( ) Course 2

- Humans in Connection: **ANTH, PSYC, SOC, ASIA, CHNS, FREN, JPNS, RUSS, SPAN**
  - ( ) Course 1
  - ( ) Course 2

- Senior Capstone
  - ( ) ETH 400 – Reach Capstone
  - (✓) CHEM 410 – Research I

- Outreach
  - ( ) BTG 300 – Beyond the Gates

### General Elective Courses
- ( ) At least 18 credits of general elective courses

### Biochemistry Major Curriculum

#### First-Year Level (16 cr)
- ( ) CHEM 121/122 General Chemistry I/Lab
- ( ) CHEM 131/132 General Chemistry II/Lab
- ( ) MATH 170 Calculus I
- ( ) MATH 171 Calculus II

#### Sophomore Level (24 cr)
- ( ) BIO 142/143 Cellular & Molecular Biology/Lab
- ( ) BIO 310/311 Genetics/Lab
- ( ) CHEM 240/241 Organic Chemistry I/Lab
- ( ) CHEM 242/243 Organic Chemistry II/Lab
- ( ) PHYS 201/203 General Physics I/Lab
- ( ) PHYS 202/206 General Physics II/Lab

#### Junior/Senior Level (≥ 30 cr)
- ( ) CHEM 230/231 Quantitative Analysis/Lab
- ( ) CHEM 331/332 Biochemistry I/Lab
- ( ) CHEM 338/339 Biochemistry II/Lab
- ( ) CHEM 341 Physical Chemistry I
- ( ) CHEM 409 Senior Seminar
- ( ) CHEM 410 Research I
- ( ) CHEM 412 Research I Lab
- ( ) CHEM 420 Chemical Biology
- ( ) Major Elective Course
- ( ) Major Elective Course
- ( ) Major Elective Course [if necessary for credit hours]

### Major Elective Courses
- ( ) BIO 200/201 Microbiology/Lab
- ( ) BIO 244/245 Histology/Lab
- ( ) BIO 330/331 Immunology/Lab
- ( ) BIO 334/325 Human Anatomy/Lab
- ( ) BIO 344/345 Human Physiology/Lab
- ( ) BIO 360/361 Systems Physiology/Lab
- ( ) BIO 430 Molecular Biology
- ( ) CHEM 310 Advanced Inorganic Chemistry
- ( ) CHEM 314 Advanced Organic Chemistry
- ( ) CHEM 333/334 Instrumental Analysis/Lab
- ( ) CHEM 335/336 Spectral Interpretation/Lab
- ( ) CHEM 343 Experimental Physical Chemistry
- ( ) CHEM 351 Physical Chemistry II
- ( ) FRSC 360 Forensic Chemistry
- ( ) MATH 233 Calculus III

At least 121 credit hours are required for graduation. Students earn a minimum of 33 hr in the REACH Curriculum, 18 hr in general electives, and 70 hr in the major curriculum.