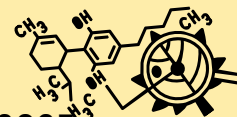


# BIOCHEMISTRY SPECIALIZATION



Courses for Students Enrolled Prior to Fall 2023

## FIRST YEAR

BIOL 1506E Biology I\*  
BIOL 1507E Biology II  
CHMI 1006E General Chemistry I #  
CHMI 1007E General Chemistry II  
MATH 1036E Calculus I##  
MATH 1037E Calculus II OR MATH 1057E Linear Algebra I  
PHYS 1006E Introductory Physics I  
**OR** PHYS 1206E Physics for the Life Sciences I  
PHYS 1007E Introductory Physics II  
**OR** PHYS 1207E Physics for the Life Sciences II

6 elective credits

# Students lacking grade 12 4U Chemistry must first take CHMI 1041.

## Students lacking grade 12 4U Advanced Functions or who have attained a grade of less than 60% must first take MATH 1912.

## SECOND YEAR

BIOL 2026E Introduction to Microbiology  
CHMI 2117E Introductory Quantitative Analysis  
CHMI 2227E Biochemistry I  
CHMI 2316E Inorganic Chemistry I  
CHMI 2426E Organic Chemistry I  
CHMI 2427E Organic Chemistry II  
CHMI 2516E Introductory Physical Chemistry I  
COSC 2836E Computer Software for the Sciences  
**OR** STAT 2246E Statistics for Scientists

**3 credits from:**

BIOL 2126E Cell Biology \*\*

BIOL \*\*\*

3 elective credits

§This program has a co-op option. Please contact the Department of Chemistry and Biochemistry for more information.

## THIRD YEAR

CHMI 3226E Biochemistry II  
CHMI 3227E Experimental Biochemistry  
CHMI 3416E Intermediate Organic Chemistry  
CHMI 4226E Recombinant DNA Technology  
CHMI 3217E Biochemistry of Nucleic Acids  
**OR** CHMI 4217E Biomembranes, Structure and Function

**3 credits from list A and 3 credits from list B:**

See QR Code for Credit list



**3 credits from:**

BIOL 2126E Cell Biology \*\*

BIOL \*\*\*

6 elective credits

§This program has a co-op option. Please contact the Department of Chemistry and Biochemistry for more information.

## FOURTH YEAR

CHMI 4615E Research and Seminar  
CHMI 3217E Biochemistry of Nucleic Acids  
**OR** CHMI 4217E Biomembranes, Structure and Function  
3 credits from list A and 3 credits from list B:

See QR Code for Credit list

3 credits from:

BIOL 2126E Cell Biology \*\*

BIOL \*\*\*

3 upper year BIOL credits

9 elective credits



**Students must include a minimum of 12 credits from the Arts.**

**PHIL 2345E or PHIL 2525E is highly recommended as an elective.**

**\* Students must take at least 21 BIOL credits as part of their program**

**\*\* BIOL 2126E is mandatory and can be taken in 2nd, 3rd or 4th year**

**\*\*\*BIOL 2007E is highly recommended**

**The following courses may be used as BIOL credits in the Biochemistry program: ANTR 3047E, ANTR 3086E, PHED 2506E, PHED 2507E, PHYS 2606E, PSYC 2606E, PSYC 2617E, PSYC 3506E.**

**In addition, CHMI 3427E, CHMI 4237E, CHMI 4286, CHMI 4287, and CHMI 4297 may be used as BIOL credits if not used as CHMI credits.**

**Note: Students may not exceed 48 credits at the 1000 or 9100 level in their degree program.**

