

## **BIOMEDICAL SCIENCES MAJOR REQUIREMENTS** *(updated April 2025)*

### **CORE**

#### **All of these:**

BIOL 101: General Biology I with Lab

BIOL 102: General Biology II with Lab

BIOL 245: Genetics OR BIOL 250: Intro to Cell Biology

CHEM 103: General Chemistry I with Lab

CHEM 104: General Chemistry II with Lab

STAT 113: Applied Statistics

#### **Two of these:**

BIOL 231: Microbiology with Lab

BIOL 315: Human Nutrition

BIOL 341: Anatomy & Physiology I with Lab

BIOL 351: Anatomy & Physiology II with Lab

CHEM 221: Organic Chemistry I with Lab

CHEM 222: Organic Chemistry II with Lab

### **BIOLOGY ELECTIVES- Four of these, at least three with lab** \* (below) if not taken to fulfill a CORE requirement

BIOL 227 Mammalogy with Lab

BIOL 231 Microbiology with Lab\*

BIOL 245 Genetics\*

BIOL 250 Intro to Cell Biology\*

BIOL 252: Research Methods in Cell Biology (Lab)

BIOL 258: Ethnobotany with Lab

BIOL/NRSCI 288: Intro to Neuroscience with Lab

BIOL/CHEM/BIOCH 309: Biochemistry

BIOL 315: Human Nutrition\*

BIOL 333: Immunology with Lab

BIOL 341: Anatomy & Physiology I with Lab\*

BIOL 350: Cancer Biology

BIOL 351: Anatomy & Physiology II with Lab\*

BIOL 353: Human Embryology

BIOL 370: Hormones, Disease, and Development

BIOL/NRSCI 387: Cellular Mech. of Memory

BIOL/NRSCI 388: Drugs & the Brain with Lab

BIOL/NRSCI 389: Advanced Neuroscience

BIOL 392: Res Meth Fluor/Conf Microscopy (Lab)

BIOL 395: Res Methods in Molecular Biology (Lab)

BIOL 399 Current Topics in Neuroscience

BIOL 4033 Biology-Physics (300 level)

ABROAD: Anatomy & Physiology 2 (200 level lab course)\*: AUSTRALIA (James Cook University)

Neuropharmacology (300 level course): AUSTRALIA (James Cook University)

Neuroscience of Fear (200 level course): SLU summer course

#### **Note about the CORE and Biology Electives courses:**

- Students must complete at least **two** Core or Biomedical Sciences Electives biology courses at the 300 or 400 level. SYE courses or Independent Research courses at the 300 or 400 level may not be used to fulfill this requirement.
- SYE courses may not be counted as Biology Elective courses.

### **BIOMEDICAL CONTEXTS- Two of these**

ANTH 242: Dealing with the Dead

ANTH 243: Medicines and Meanings w/ CBL

ANTH 270: Plagues and Peoples

ANTH 4020: Anthropology of the Body

ANTH 4024: Paleoepidemiology

CLAS 303: Gender & Health among Latinx

EDUC 325: Sexuality Education

EDUC 4014: Great (S)expectations

ENGL/AFS/FR: Zombies, Epidemics & Illnesses  
in the Francophone World

ENGL 3085 LS: Narratives of Medicine

FRPG 2181: Health, Disease, and Death...

GS264: Global Public Health: Critical Approaches

GS 268: Global Health and Justice

GS 365: Rethinking Population, Health, and  
Environment

PCA 335: Sex Talk

PCA 370: Against Health: Rhetoric & the Health  
Humanities

PH/AFS/FR: Intro to Health Humanities

PH 3023: Gender and Health

PHIL 347: Philosophy of Psychiatry

PHIL 354: Biomedical Ethics

PHIL 4025: Phil. of the Health & Social Sciences

REL 3024: Women, Religion, and Food

SOC 225: Women's Health & Aging

SOC 246: What's so bad about Aging? w/CBL

SOC 275: Medical Sociology

SOC 308: Death & Dying

## **EXPERIENTIAL LEARNING COMPONENT- one of these**

### **Credit bearing options:**

- BIOL 306CBL & 307CBL Health & Wellness Coaching and Internship (BOTH course and internship required to fulfill the ELC)
- SYE Research (489 or 490): one semester worth 1 unit in one of these departments: Biology, Biochemistry, Biophysics, Chemistry, Neuroscience, Psychology

### **Non-credit bearing options\***

Certified Nursing Assistant (CNA) training  
Certified Phlebotomy Technician (CPT) training  
Emergency Medical Technician (EMT) training  
Hospice training and volunteering  
Approved external internship

Approved external research opportunity  
St. Lawrence University Fellowship  
McNair Fellowship  
CSTEP Internship/Fellowship

*\* Non-credit bearing options can be completed anywhere inside or outside of St. Lawrence University, but must be approved by the program directors. See website for much more detail!*

## **SPECIFIC GUIDELINES:**

1. Please note that students may not double-major in Biomedical Sciences and any of these: Biochemistry, Neuroscience, or Biology. Students may also not complete a major in Biomedical Sciences and a minor in Biology.
2. Students must complete at least **two** Core or Biomedical Sciences Electives biology courses at the 300 or 400 level. SYE courses or Independent Research courses at the 300 or 400 level may not be used to fulfill this requirement.
3. SYE courses may not be counted as Biology Elective courses.
4. Anatomy & Physiology I & II (with Lab) taken at another institution may be transferred to count toward Core or Biomedical Sciences Electives (if approved at the 200 level). Students will still need to meet the requirement of two Core or Biomedical Sciences Elective courses at the 300 or 400 level.
5. Only two courses total (from any category) may be transferred from another institution (including study abroad) to count toward the BMS major requirements.