

Student Name: _____ Class Year: _____ Career Interests: _____

BIOMEDICAL SCIENCES MAJOR REQUIREMENTS (updated April 2024)

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 (NRSCI/BIOL 233): Summer Abroad Course

BIOMEDICAL CONTEXTS- two of these

ANTH 242: Dealing with the Dead
ANTH 270: Plagues and Peoples
ANTH 3072: Medicines and Meanings w/ CBL
ANTH 4020: Anthropology of the Body
BIOL 412: Cross-Cultural Healing
EDUC 325: Sexuality Education
ENGL/AFS/FR: Zombies, Epidemics & Illnesses
in the Francophone World
GNDR 224: Global Advocacy for Women's Sexual
Reproductive Health & Rights
GS264: Global Public Health: Critical Approaches
GS 268: Global Health and Justice
GS 365: Rethinking Population, Health, and
Environment
HIST 294: Medicine & Empire
HIST 3097: Public Health in History
HIST 4017: Health and Healing in Africa
PCA 335: Sex Talk
PCA 370: Against Health: Rhetoric & the Health
Humanities
PH/AFS/FR: Intro to Health Humanities
PHIL 347: Philosophy of Psychiatry
PHIL 354: Biomedical Ethics
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

ABROAD:

Ethical and Scientific Legacy of Nazi Medical Crimes: DENMARK (DIS)
Medical Ethics: DENMARK (DIS)

EXPERIENTIAL LEARNING COMPONENT- one of these

Credit bearing options:

BIOL 304 & 305: Health Coaches I & II (0.5 unit each) BIOL 489/490: SYE Research

Non-credit bearing options*

Certified Nursing Assistant (CNA) training	Approved external research opportunity
Certified Phlebotomy Technician (CPT) training	St. Lawrence University Fellowship
Emergency Medical Technician (EMT) training	McNair Fellowship
Hospice training and volunteering	CSTEP Internship/Fellowship
Approved external internship	

** 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 who major in Biomedical Sciences **cannot also** minor in Biology.
2. Students must complete at least **two** Core or Biomedical Sciences Elective biology courses at the 300 or 400 level. SYE 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.

SEMESTER PLANNING:

Fall ____	Spring ____
Fall ____	Spring ____
Fall ____	Spring ____
Fall ____	Spring ____