Biomedical Laboratory & Clinical Sciences
BACHELOR OF SCIENCE
(128 total) 7.17 draft

DISTRIBUTION REQUIREMENTS
(48 credits)
ENGLISH: Two courses: MET EN 104 and EN 201
COMPUTER SCIENCE: MET CS 101
MATHEMATICS: MET MA 113 or higher
NATURAL SCIENCES: MET BI 105 and MET CH 171 OR CH 101
LITERATURE: Any 100- or 200-level literature course or MET HU 221 or HU 210
PHILOSOPHY: 1 course
HISTORY: 1 course
ADDITIONAL: Three courses from distribution course offerings: One course in the humanities (H), one course in the social sciences (S), and one course in either the humanities or social sciences

MAJOR REQUIREMENTS
(26 credits-Grade of “C” or higher required)
GMS BT 104† Medical Terminology 1
GMS BT 110 Introduction to Biomedical Laboratory Sciences
GMS BT 208 Essential Math for Biotech
GMS BT 342 Cell Biology
GMS BT 405 Biochemistry
GMS BT 413 Techniques in Molecular Biology
MET CH 172 or CH 102 Chem 2 or MET PY 105 Elementary Physics

MAJOR ELECTIVES
(30-36 credits-Grade of “C” or higher required)
Specialized course choices include, but are not limited to, the following:
GMS BT 106† Medical Terminology 2
GMS BT 160* Biotechnology 1
GMS BT 170* Biotechnology 2
GMS BT 201 Anatomy & Physiology 1
GMS BT 202 Anatomy & Physiology 2
GMS BT 210 Medical Writing for Clinical Research
GMS BT 240 Current Good Manufacturing Practices and Quality Assurance (GMP/QA)
GMS BT 290 Disease & Public Health
GMS BT 330 Medical Devices
GMS BT 336 Biomedical Informatics
GMS BT 360 Auditing in Clinical Research
GMS BT 404 Medical Virology
GMS BT 406 Cytogenetics
GMS BT 407 Molecular Genetics
GMS BT 408 Immunology
GMS BT 411 Protein Purification & Analysis
GMS BT 422 Biomedical Instrumentation and Imaging
GMS BT 426 Medical Microbiology
GMS BT 430 Laboratory Management
GMS BT 432 Basic Pathology: Mechanisms of Disease
GMS BT 436 Human Genetics
GMS BT 440† Genetics, Ethics, and the Law
GMS BT 442† Issues in Assisted Reproduction
GMS BT 443 Advanced Molecular Biology Lecture
GMS BT 444 The Business of Biotech
GMS BT 450 Forensic Toxicology
GMS BT 454 Cell Culture Techniques
GMS BT 456 Endocrinology
GMS BT 460 Drug Discovery
GMS BT 462 Drug Development
GMS BT 465 Cell Signaling in Health and Disease
GMS BT 475 Infectious Diseases
GMS BT 480 Planning and Operations in Clinical Research
GMS BT 484 Advanced Cell Culture Techniques
GMS BT 520 Biology of Cancer
GMS BT 530 Intro. Pharmacology
GMS BT 532 Histopathology
GMS BT 540 Regulatory and Compliance Issues
GMS BT 550 Clinical Data Management
GMS BT 560 Good Clinical Practices (GCP) in Clinical Research
GMS BT 575 Design and Conduct of Clinical Trials
MET MG 415** Project Management
MET CJ 101** Principles of Criminal Justice

*Courses that are 2 credits (courses are 4 credits unless noted)
†Online courses
**Students may select other relevant MET courses after consulting with the program director.

FREE ELECTIVES (8 credits)
Students may take 8 credits in courses of their choice. The total number of elective credits can be decreased by using transfer credits from another accredited institution.

Course descriptions may be found online at bu.edu/met/courses. See the Metropolitan College Course Schedule or bu.edu/met/biotech for semesters and times offered.

EXTERNSHIP
(10-16 credits)
A minimum of 10 externship credits is required. Students register for GMS BT 591/592 Biomed Externship or GMS BT 594/595 Clinical Research Practicum (webreg restricted; permission required). This training component of the degree exposes matriculated students to new skills, gained in the laboratory, clinical, manufacturing, or other setting. This culminating project puts the program’s course offerings into practice and enhances the student’s resume. Biotechnology firms, clinical laboratories, and biomedical research facilities accommodate students according to mutual needs. A memo of agreement (MOA) signed by the student, externship supervisor, and program director is required to begin. Objectives must be clearly stated. A presentation is given at the conclusion of the externship which factors into the final grade. Consult the program director for more details at least six months before the externship is to start.