

Bachelor of Science in Biomedical Sciences
2014 - 2015 Catalog

The University of Texas at Brownsville and Texas Southmost College

This document provides a list of the UTB/TSC courses required for the major and their equivalent UTRGV courses.

A significant number of courses have changed their course prefix, number, and title.

For any additional information, please visit the Academic Advising Center.

UTB/TSC Courses

Course Equivalents at UTRGV

GENERAL EDUCATION CORE COURSES REQUIRED FOR THE MAJOR

020 – Mathematics (†)

MATH 2413 Calculus I

MATH 2413 Calculus I

030 – Natural Sciences (†)

CHEM 1411 General Chemistry I

CHEM 1311/1111 General Chemistry I/Lab I

CHEM 1412 General Chemistry II

CHEM 1312/1112 General Chemistry II/Lab II

080 – Social and Behavioral Sciences

PSYC 2301 General Psychology

PSYC 2301 General Psychology

A – GENERAL EDUCATION CORE – 42 HOURS

42 hours of General Education Core

B – MAJOR REQUIREMENTS – 49 HOURS

BMED 1101 Introductory Medical Biochemistry (†)

BMED 1101 Introductory Medical Biochemistry

BMED 1102 Introduction to Biomedical Laboratory I (†)

BMED 1102 Introduction to Biomedical I Lab

BMED 1103 Introductory Cell Biology (†)

BMED 1103 Introductory Cell Biology

BMED 1104 Introductory Molecular Biology (†)

BMED 1104 Introductory Molecular Biology

BMED 1105 Introductory Medical Genetics (†)

BMED 1105 Introductory Medical Genetics

BMED 1106 Introductory Medical Microbiology (†)

BMED 1106 Introductory Medical Microbiology

BMED 1107 Introductory Immunology (†)

BMED 1107 Introductory Immunology

BMED 1108 Introduction Medical Neuroscience (†)

BMED 1108 Introductory Medical Neuroscience

BMED 1109 Evolutionary Medicine (†)

BMED 1109 Evolutionary Medicine

BMED 1110 Introductory Medical Physiology (†)

BMED 1110 Introductory Medical Physiology

BMED 1111 Introduction to Biomedical Laboratory II (†)

BMED 1111 Introduction to Biomedical II Lab

BMED 2101 Gross Anatomy (†)

BMED 2101 Gross Anatomy

BMED 2102 Molecules, Cells and Tissues (†)

BMED 2102 Molecules, Cells, and Tissues

BMED 3101 Pathobiology and Host Defense (†)

BMED 3101 Pathobiology and Host Defense

BMED 3102 Neurochemistry (†)

BMED 3102 Neurochemistry

BMED 3103 Human Behavior (†)

BMED 3103 Human Behavior

BMED 3104 Integrated Body Systems I: Cardiovascular and Pulmonary (†)

BMED 3104 Integrated Body Systems I: Cardiovascular and Pulmonary

BMED 3105 Integrated Body Systems II: Gastrointestinal System (†)

BMED 3105 Integrated Body Systems II: Gastrointestinal Systems

BMED 3106 Integrated Body System III: Renal, Fluids and Electrolytes (†)

BMED 3106 Integrated Body Systems III: Renal, Fluid and Electrolytes

BMED 3121 Independent Research I

BMED 3121 Independent Research I

BMED 3107 Integrated Body System IV: Endocrine and Reproduction Systems (†)

BMED 3107 Integrated Body Systems IV: Endocrine and Reproductive Systems

BMED 3108 Integrated Body System V: Dermatology, Hematology & Musc. (†)

BMED 3108 Integrated Body Systems V: Dermatology, Hematology and Musculoskeletal

BMED 3109 Medical Syndromes (†)

BMED 3109 Medical Syndromes

BMED 3122 Independent Research II

BMED 3122 Independent Research II

BMED 4310 Medical Biochemistry

BMED 4310 Medical Biochemistry

BMED 4220 Medical Bioinformatics, Genomics and Systems Biology

BMED 4220 Medical Bioinformatics, Genomics, and Systems Biology

BMED 4230 Human Genetics and Medical Genomics

BMED 4230 Human Genetics and Medical Genomics

BMED 4240 Medical Microbiology

BMED 4240 Medical Microbiology

BMED 4250 Advanced Cell Biology

BMED 4250 Advanced Cell Biology

BMED 3223 Independent Research III

BMED 3223 Independent Research III

BMED 4260 Advanced Molecular Biology

BMED 4260 Advanced Molecular Biology

BMED 4270 Introduction to Complementary and Alternative Medicine

BMED 4270 Introduction to Complementary and Alternative Medicine

BMED 4280 Advanced Medical Neuroscience

BMED 4280 Advanced Medical Neuroscience

BMED 4290 Medical Immunology

BMED 4290 Medical Immunology

BMED 4295 Pathophysiology

BMED 4295 Pathophysiology

BMED 3224 Independent Research IV

BMED 3224 Independent Research IV

C – SUPPORT COURSES – 29 HOURS

CHEM 2423 Organic Chemistry I/Lab I

CHEM 2323/2123 Organic Chemistry I/Lab I

CHEM 2425 Organic Chemistry II/Lab II

CHEM 2325/2125 Organic Chemistry II/Lab II

PHYS 1401 College Physics I/Lab I
PHYS 1402 College Physics II/Lab II
MATH 1342 Elementary Statistical Methods
MATH 2413 Calculus I (†)*
MATH 3381 Statistics
SPAN X3XX Any Spanish Course
SPAN X3XX Any Spanish Course

PHYS 1401 General Physics I
PHYS 1402 General Physics II
MATH 1342 Elementary Statistical Methods
MATH 2413 Calculus I
MATH 3331 Applied Statistics I
SPAN X3XX Any Spanish Course
SPAN X3XX Any Spanish Course

TOTAL CREDIT HOURS FOR GRADUATION – 120

TOTAL ADVANCED HOURS (minimum) – 36

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Admission requirements to this program: BMED 1101, BMED 1102, BMED 1103, BMED 1104, BMED 1105, BMED 1106, BMED 1107, BMED 1108, BMED 1109, BMED 1110, BMED 1111 with “C” or better grade and GPA of 2.8 or higher in all these courses. Also CHEM 1411, CHEM 1412, MATH 2412 (or higher) with “C” or better grade in all these courses. Overall GPA of 2.5 and Departmental approval.

† Grade of “C” or better is required for graduation.

* MATH 2413-3 sch for general education and 1 sch for support courses.