

Bachelor of Science in Biology (8th - 12th Grade Teacher Certification)
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 1342 Elementary Statistical Methods

MATH 1342 Elementary Statistical Methods

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

090 – Institutionally Designated Option (‡)

SPCH 1315 Applied Communication is strongly recommended.
Minimum grade of B or better is required for admission into the Teacher Education program.

COMM 1315 Public Speaking

A – GENERAL EDUCATION CORE – 42 HOURS

42 hours of General Education Core

B – MAJOR REQUIREMENTS

1 - Pedagogy & Professional Responsibility – 18 hours (†, £)

EDCI 1101 Step 1: Inquiring Approaches to Teaching (†, £)
EDCI 1102 Step 2: Inquiring Based Lesson Design (†, £)
EDCI 3350 Knowing and Learning in Mathematics and Science (†, £)
EDCI 3355 Classroom Interactions (†, £)
EDCI 3360 Project-Based Instruction (†, £)
EDCI 4650 Apprentice Teaching 6-12 (†, £)
EDCI 4170 Apprentice Teaching Seminar (†, £)

UTCH 1101 Inquiry Approaches to Teaching
UTCH 1102 Inquiry-Based Lesson Design
UTCH 3301 Knowing and Learning in Mathematics and Science
UTCH 3302 Classroom Interactions
UTCH 3303 Project-Based Instruction
UTCH 4601 Apprentice Teaching
UTCH 4101 Apprentice Teaching Seminar

2 – Core Courses for the Major – 28 hours (†)

BIOL 1306/1106 Biology for Science Majors I/Lab I
BIOL 1307/1107 Biology for Science Majors II/Lab II
BIOL 2343/2143 General Biology III/Lab III
BIOL 3303/3103 Genetics/Lab
BIOL 3309/3109 Ecology/Lab
BIOL 3312/3112 Cell and Molecular Biology/Lab
BIOL 4100 Biology Seminar
BIOL 4301 Evolution

BIOL 1406 General Biology I
BIOL 1407 General Biology II
BIOL 2343/2143 General Biology III/Lab III
BIOL 3413 Genetics
BIOL 3409 Ecology
BIOL 3412 Cell Biology
BIOL 4400 Biological Communication (Capstone)
BIOL 4301 Evolution

3 – Biology Electives – 8 hours

(4 hours must be advanced 3000, 4000 level)

4 – Support Courses – 26 hours

CHEM 2423 Organic Chemistry I
MATH 3307 Perspectives on Mathematics and Sciences - UTeach
BIOL 3304 Research Methods – UTeach
MATH 2413 Calculus I (†)

CHEM 2323/2123 Organic Chemistry I/Lab I
MATE 3317 Perspectives in Mathematics and Science
BIOL 4392 Research Methods in the Science and Mathematics Classroom (UTeach)
MATH 2413 Calculus I

Choose one course:

PHYS 1401 College Physics I
PHYS 2325/2125 University Physics I/Lab I

PHYS 1401 General Physics I
PHYS 2425 Physics for Scientists and Engineers I

Choose one course:

PHYS 1402 College Physics II
PHYS 2326/2126 University Physics II/Lab II

PHYS 1402 General Physics II
PHYS 2426 Physics for Scientists and Engineers II

Choose 4 credits from the following courses:

GEOL 1403 Physical Geology
GEOL 1404 Historical Geology
ENVR 1401 Environmental Science I
CHEM 2425 Organic Chemistry II

GEOL 1403 Physical Geology
GEOL 1404 Historical Geology
ENVR 1401 Introduction to Environmental Science I
CHEM 2325/2125 Organic Chemistry II/Lab II

5 – Literacy – 3 hours (†, £)

EDLI 4351 Content Area Literacy

READ 4305 Content Area Literacy

TOTAL CREDIT HOURS FOR GRADUATION – 125

TOTAL ADVANCED HOURS (minimum) – 36

Admission requirements to this program: BIOL-1306/1106, BIOL-1307/1107, CHEM-1411, CHEM-1412, MATH-2412 (or higher) with “C” or better grade in all these courses and Departmental approval.

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

‡ Grade of “B” or better is required for graduation.

* Grade of “C” or I her

£ Maintain a minimum of 2.50 GPA with a grade no lower than C.

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