

Bachelor of Science in Biology (4th-8th 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 – 4 hours

(4 hours must be advanced 3000, 4000 level)

4 hours of Biology (BIOL) Electives
(4 hours must be advanced 3000, 4000 level)

4 – Support Courses – 30 hours

MATH 2413 Calculus I
Choose one course:
PHYS 1401 College Physics I
PHYS 2325/2125 University Physics I/Lab I
Choose one course:
PHYS 1402 College Physics II
PHYS 2326/2126 University Physics II/Lab II
GEOL 1403 Physical Geology
ENVR 1401 Environmental Sciences I
MATH 3307 Perspectives on Mathematics and Science - UTeach
BIOL 3304 Research Methods – UTeach
ASTR 1303/1103 Stars and Galaxies/Lab

MATH 2413 Calculus I
PHYS 1401 General Physics I
PHYS 2425 Physics for Scientists and Engineers I
PHYS 1402 General Physics II
PHYS 2426 Physics for Scientists and Engineers II
GEOL 1403 Physical Geology
ENVR 1401 Introduction to Environmental Science I
MATE 3317 Perspectives in Mathematics and Science
BIOL 4392 Research Meth. in the Scie. and Math Classroom (UTeach)
ASTR 1402 Introduction to Astronomy II

5 – Support – 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-1406, BIOL-1407, CHEM-1311/1111, CHEM-1312/1112, MATH-2412 (or higher) with “C” or better grade in all these courses and Departmental approval.

* Grade of “C” or better is required for a MATH course used to fulfill the General Education Core requirement (MATH-1314 College Algebra or higher).

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

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

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

Student must meet all Program Admission Requirements/Student Teaching Rqmts. Contact College of Education for further information.

Rev. Date: 7/20/15
Publication Date: 3/1/15