

Bachelor of Science in Engineering Technology
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 1314 College Algebra

MATH 1314 College Algebra

030 – Natural Sciences

PHYS 1401 College Physics I

PHYS 1401 General Physics I

CHEM 1411 General Chemistry I

CHEM 1311/1111 General Chemistry I/Lab I

A – GENERAL EDUCATION CORE – 42 HOURS

42 hours of General Education Core

B – MAJOR REQUIREMENTS – 72 HOURS

1 – Core Courses for the Major – 62 hours

ENGT 1101 Introduction to Engineering Technology
 ENGT 1310 Design Graphics I
 COSC 1301 Introduction to Computing
 ENGT 2307 Engineering Materials I for Engineering Technology
 ENGT 1320 Design Graphics II
 ENGT 1321 Basic Architectural C.A.D.
 ENGT 2310 Introduction to Manufacturing Processes
 ENGT 2311 Fundamentals of Product Design
 ENGT 2350 Residential Architectural C.A.D.
 ENGT 3350 Commercial Architectural C.A.D.
 ENGT 2321 Basic Electronics
 ENGT 2322 Computer Integrated Manufacturing
 ENGT 3333 Quality Control
 ENGT 3311 Statics and Strength of Materials
 ENGT 3312 Renewable Energy Technology
 ENGT 3322 Machine Design
 ENGT 3321 Solar Energy Systems
 ENGT 3330 Green Building Design I
 ENGT 4311 Wind Energy Systems
 ENGT 4312 Production Planning and Control
 ENGT 4210 Senior Project I
 ENGT 4220 Senior Project II

ENGT 1101 Introduction to Engineering Technology
 ENGT 1310 Design Graphics I
 CSCI 1301 Introduction to Computing
 ENGT 2307 Engineering Materials I for Engineering Technology
 ENGT 1320 Design Graphics II
 ENGT 1321 Basic Architectural CAD
 ENGT 2310 Introduction to Manufacturing Processes
 ENGT 3310 Fundamentals of Product Design
 ENGT 2350 Residential Architectural CAD
 ENGT 3350 Commercial Architectural CAD
 ENGT 2321 Basic Electronics
 ENGT 3320 Computer Integrated Manufacturing
 ENGT 3333 Quality Control
 ENGT 3311 Statics and Strength of Materials
 ENGT 3312 Renewable Energy Technology
 ENGT 4322 Machine Design
 ENGT 3321 Solar Energy Systems
 ENGT 3330 Green Building Design I
 ENGT 4311 Wind Energy Systems
 ENGT 4312 Production Planning and Control
 ENGT 4210 Senior Project I
 ENGT 4220 Senior Project II

2 – Support Courses – 4 hours

MATH 2412 Pre-Calculus Mathematics

MATH 2412 Precalculus

3 – Restricted Electives – 12 hours

Departmental approval (6 hours must be advanced 3000, 4000 level)

12 hours of Restricted Electives

Departmental approval (6 hours must be advanced 3000, 4000 level)

TOTAL CREDIT HOURS FOR GRADUATION – 120

TOTAL ADVANCED HOURS (minimum) – 36

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† Grade of "C" or better is required for graduation.