CENTRAL TEXAS COLLEGE®

2024/25 COURSE CATALOG

Spring Addendum

This addendum reflects updates and corrections to the Central Texas College 2024/2025 Course Catalog published Fall 2024.

Catalog Page #	Section	Description
69	Student Grades and Records Retention	Add New Section: **Student Grades and Records Retention** Central Texas College adheres to the state and federal regulations and institutional guidelines regarding the retention of student academic records. Students' records may consist of the following but are not limited to admissions applications, national or state standardized test scores and reports, registration forms, graduation applications, transcripts from prior colleges or universities attended, degree plans and final course grades. Except for the CTC credit transcript and grade changes, the student records must be retained a minimum of the student's last semester enrolled plus 5 years. The CTC credit transcript includes the academic achievement of each enrolled student, documenting credit courses taken, transfer credits accepted, credits awarded, grades earned and any degrees, certificates of completion and/or other awards. The CTC transcript and copies of grade changes must be retained on a permanent basis. Even if a student is approved for an Academic Fresh Start, repeats a CTC course, or related actions, grades on the official CTC transcript must be retained permanently.

<table>
<tr><td></td><td></td><td></td></tr>
<tr><td>162-163</td><td>Programs: Mathematics</td><td>Add New Program:

Specialization in Manufacturing, Automation, and Robotics Technology (SMA25.AAS) 150613
Associate of Applied Science Degree
Spring Registration requires advisor approval.
Pending SACS-COC Approval

First Year
First Semester
CORE MATH 1314 College Algebra 3
DEGR DFTG 1405 Introduction to Technical Drawing 4
DEGR INMT 1319 Manufacturing Processes 3
DEGR ENTC 1423 Strength of Materials 4

Second Semester
CORE ENGL 1301 Composition I 3
DEGR RBTC 1305 Robotic Fundamentals 3
DEGR DFTG 1409 Basic Computer-Aided Drafting 4
DEGR RBTC 1309 Pneumatics 3
DEGR RBTC 1347 Electro-Mechanical Devices 3

Second Year
First Semester
CORE ELEC Humanities/Fine Art Selection 3
DEGR INMT 1417 Industrial Automation 4
DEGR INTC 1457 AC/DC Motor Control 4
DEGR RBTC 2345 Robot Application, Set-Up, and Testing 3

Second Semester
DEGR INMT 2489 Internship – Manufacturing Technology/Technician 4
or
DEGR DFTG 2440 Solid Modeling/Design*
DEGR RBTC 2339 Robot Programming and Diagnostics 3
DEGR PTAC 2314 Principles of Quality 3
or
DEGR RBTC 1351 Robotics Mechanism+
CORE ELEC Social/Behavior Sciences Selection 3
CORE PHIL 2306 Introduction to Ethics 3
Total Hours 60

*If the student choose this option then the student will earn an OSA Certificate in Drafting and Design
+If the student choose this option then the student will earn a Certificate in Robotics</td></tr>
<tr><td>189</td><td>Explanation of Items in Course Descriptions</td><td>Replace Explanation of Items in Course Descriptions with updated Explanation of Items in Course Descriptions.</td></tr>
<tr><td>215</td><td>Course Description</td><td>Add New Course Description Section and Course Description:

ENTC SMART Specialization in Manufacturing, Automation, and Robotics, Technology (N)

ENTC 1423 Strength of Materials 3-2-4
Study of the relationship between externally applied forces and internally induced stresses and the resulting deformations in structural members.</td></tr>
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225	Course Description	Add New Course Description Section and Course Description: **INMT SMART Specialization in Manufacturing, Automation, and Robotics, Technology (N)** **INMT 1319** Manufacturing Processes 3-0-3 Exploration of a variety of methods used in manufacturing. Theory and application of processes including but not limited to metal forming, welding, machining, heat treating, plating, assembly procedures, and process control considerations, casting and injection molding. **INMT 1417** Industrial Automation 3-2-4 Applications of industrial automation systems including identification of system requirements, equipment integration, motors, controllers, and sensors. Coverage of set-up, maintenance, and testing of the automated system. **INMT 2489** Internship – Manufacturing Technology/Technician 0-12-4 A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.
225	Course Description	Add New Course Description Section and Course Description: **INTC SMART Specialization in Manufacturing, Automation, and Robotics, Technology (N)** **INTC 1457** AC/DC Motor Control 0-12-4 A study of electric motors and motor control devices common to a modern industrial environment. A presentation of motor characteristics with emphasis on starting, speed control, and stopping systems.
242	Course Description	Add New Course Description Section and Course Description: **PTAC SMART Specialization in Manufacturing, Automation, and Robotics, Technology (N)** **PTAC 2314** Principles of Quality 3-0-3 Study of the background and application of quality concepts. Topics include team skills, quality tools, statistics, economics and continuous improvement.
243	Course Description	Update **RBTC 1347** course contact hours from 3-0-3 to 3-1-3
243	Course Description	Update **RBTC 2339** course contact hours from 3-0-3 to 2-2-3

Central Texas College has made every effort to assure the accuracy of the information in this addendum. Users of this addendum should be aware that policies, rules, procedures and regulations change, and that these changes may alter the information contained in this publication. The college reserves the right to change policies, regulations, fees and courses of instruction upon direction by the Central Texas College Board of Trustees. The most current and complete information is available from the appropriate campus departments.