



# Coastal Bend COLLEGE

## Administrative Master Syllabus Cover Sheet

**Purpose:** The Administrative Master Syllabus provides a general course description, defines the required elements of the course, and establishes a faculty-driven foundation for course assessment to ensure continuous improvement in student learning, irrespective of the course timeframe, or mode of course delivery.

Course Title: Automotive Drive Train and Axles

Course Prefix and Number: AUMT 2313

THECB Approval Number (10 digit): 4706040000

Department: Automotive Division: Industrial

Course Type: (check only one)

- Academic General Education Course (From ACGM but not a CBC Core Course)
- Academic CBC Core Course
- WECM Course (Special Topics or Unique Needs Course: Y  or N  )

Weekly Contact Hours (Lecture – Lab – External): 2 - 4 - 0

Course Catalog Description:  
A study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials with emphasis on diagnosis and repair. May be taught with manufacturer specific instructions.

Prerequisites/Co-requisites:  
None

**Approval:** The contents of this document have been reviewed and are found to be accurate.

Prepared by (Content Expert): Armando Ramirez Digitally signed by Armando Ramirez Date: 2022.08.15 15:49:50 -05'00'

Reviewed by Director or Coordinator: Macedonio Gonzalez Digitally signed by Macedonio Gonzalez Date: 2022.08.15 17:22:16 -05'00'

Approved by Dean of CTE or NAH or TGE: 



# Coastal Bend COLLEGE

## Master Course Syllabus

### Course Name: AUMT 2313 Automotive Drive Train and Axles

**Course Description:** A study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials with emphasis on diagnosis and repair. May be taught with manufacturer specific instructions.

**Semester Hour Credit: 3**

**Lecture Hrs. per Week/Lab Hrs. per Week/External Hrs. per Week: 2-4-0**

**Curriculum Capacity:**

Face-to-Face Lab=20  
Online Lab=NA  
Face-to-Face Lecture=20  
Online=NA  
Virtual Face-to-Face=NA  
Interactive video (multi-locations) =NA  
Hybrid=NA  
Clinical=NA

**Recommended enrollment threshold:**

Face-to-Face Lab=9  
Online Lab=NA  
Face-to-Face Lecture=9  
Online=NA  
Virtual Face-to-Face=NA  
Interactive video (multi-locations) =NA  
Hybrid=NA  
Clinical=NA

**Textbook and/or other major required readings:**

**Title:** Modern Automotive Technology  
**Author:** Duffy, James E.  
**Publisher:** The Goodheart-Willcox Company, Inc.  
**Edition:** 10th  
**ISBN:** #9781631263750

Revised 2021-2022

**The Student Learning Outcomes for the course are the same regardless of modality or location.**

**Course Outcomes  
(WECM or LDACGM)**

1. Utilize appropriate safety procedures
2. Diagnose and repair drivelines and explain operations of a clutch, manual transmission/transaxles, and differentials
3. Diagnose and repair system components, including electronically controlled systems
4. Perform wheel alignment procedures; and perform tire service and repair
5. Service constant velocity joints and universal joints

**The following general education course competencies (TGE) or Marketable SCAN Skills (CTE/NAH) are addressed in this course: General education course competencies (TGE) or Marketable SCAN Skills (CTE/NAH) assessed are indicated with an asterisk \*.**

1. Understanding gear ratio and how that formula works (chapter and lab exams)
2. Diagnose and repair drivelines and explain operations of a clutch, manual transmission/ trans-axles, and differentials (Lab assignments and exams)
3. Diagnose and repair system components, including electronically controlled systems (Unit and lab assignments)
4. Service constant velocity joints and universal joints (Lab assignments and exams)

**The following program student learning outcomes are assessed for this course:**

1. Students will use shop safety skills when working with automobile system equipment
2. Students will use electrical diagnostic skills to diagnose and repair vehicles
3. Students will demonstrate time management when performing tasks and repairs on vehicles
4. Students will understand degree angles when performing suspension checks and repairs

**Evaluation Methods:**

Written Exams  
Classroom Participation Lab Work  
Safety Practices

**Course Grading:** Please see individualized instructor policies for course evaluation methods. Students will be assessed on the same measure across each discipline as per CBC guidelines.

**Major Course Assignments and/or exams counting for at least 10% of a final course grade:**

Attendance 20%  
Final Exam 20%  
Unit Exams 30%  
Lab assignments 30%

**Grade Scale:**

90 to 100 = A  
80 to 89 = B  
70 to 79 = C  
60 to 69 = D  
Below a 60 = F

**Course Subject Matter Outline:**

Chapter 61-64  
Chapter 67-72

**Additional Course Requirements:**

Any student who, for any reason, misses 3 total days in the semester of any lab or lecture class, will be dropped from the course.

**Class Attendance and Classroom Conduct Policies**

**Attendance Policy:** Coastal Bend College Automotive program records the daily attendance of each student. Poor attendance and frequent lateness can dramatically affect the student's ability to master the pertinent knowledge and skills required for successful course and program completion.

- The monitoring of attendance starts on the very first day of class and is recorded on a daily basis.
- The monitoring of tardiness starts on the very first day of class. Any student that is more than 10 min late from the scheduled start time of class will be considered absent. If a student is considered tardy, he or she shall receive a 50% discount on attendance for that course (for that day).
- To ensure attendance is captured, CBC uses Black Board attendance system. The instructor records attendance and tardiness at the start of every course (student must be present for lecture and lab).
- Regular attendance and punctuality at scheduled class times is expected of all students.

- All class work and assignments missed because of absence must be made up by the student, whether the absence is excused or unexcused. Unexcused absence will count toward the 6-day maximum absences limit. An excused absence is one for which the student has given advance notice to the instructor that he or she will be unable to attend a particular class or laboratory. An unexcused absence is one for which no advanced notice was provided.

**Telephone Support:** Toll Free: 866-722-2838 or Direct Line: 361-354-2508

### **I.T. Support Blackboard**

<http://coastalbend.edu/it/>

IT Help Desk  
1-361-354-2508

[helpdesk@coastalbend.edu](mailto:helpdesk@coastalbend.edu)

**Live Chat:** Fall/Spring Hours: Monday - Thursday from 8 a.m. to 5 p.m. Summer Hours: Monday – Thursday from 7 a.m. to 6 p.m.

**Tutoring Services:** Coastal Bend College is committed to the academic success of all students enrolled at the college. A variety of services, including academic support, individual tutoring sessions, group tutoring sessions, and online tutoring, are available to students depending on the availability of tutors for the subject matter requested. All tutoring is provided at no cost to current CBC students who are currently enrolled at CBC. On-demand tutoring services are accessible 24 hours a day, seven days a week through the TutorMe platform, which may be accessed through your Blackboard account. To request a tutor, please complete the online tutor request form found at <http://www.coastalbend.edu/tutoring/> to submit your request. If you have any questions about tutoring programs, you can contact [tutoring@coastalbend.edu](mailto:tutoring@coastalbend.edu).

Beeville	Alice	Kingsville	Pleasanton
3800 Charco Road Beeville, TX 78102 1-866-722-2838	704 Coyote Trail Alice, TX 78332 1-866-891-2981	1814 Brahma Blvd. Kingsville, TX 78363 1-866-262-1615	1411 Bensdale Pleasanton, TX 78064 1-866-361-4222

**Grady C. Hogue Learning Resource Center (Library):** Located on the Beeville campus, the operation hours are Monday - Friday from 8:00 a.m. to 5:00 p.m.

(Summer semesters will observe the CBC campus operation hours) For locations and hours of the CBC library in Alice, Kingsville, and Pleasanton sites please visit the library web page link below.

Grady C. Hogue Learning Resource Center (Library): <http://lrc.coastalbend.edu/about>

**Financial Aid:** Resources are available for students for financial aid, work study, and veteran benefits. For additional information, visit our website at <http://coastalbend.edu/finaid> or contact us at 361-354-2238. Office hours: Monday - Friday from 8:00 a.m. to 5:00 p.m.

**ADA Statement:** No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the College District, or be subjected to discrimination by the College District. Nor shall the College District exclude or otherwise deny equal services, programs, or activities to an individual because of the known disability of an individual with whom the individual is known to have a relationship or association. 42 U.S.C. 12132; 28 CFR 35.130(g). See at: [GA \(Legal\)](#)

**Students with Disabilities:** Please notify your instructor of any modification/adaptation you may require accommodating a disability-related need. You will need to provide documentation to the Director of Accessibility Services so the most appropriate accommodation can be determined. Specialized services are available through the Office of Accessibility Services (**OAS**) (SSB 4.104, 471-6259). For more information, please email [oas@coastalbend.edu](mailto:oas@coastalbend.edu).

**Scholastic Dishonesty:** Each student is charged with notice and knowledge of the contents and provisions of Coastal Bend College's rules and regulations concerning student conduct. All students shall obey the law, show respect for properly constituted authority, and observe correct standards of conduct. Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by Coastal Bend College Policies FLB (Local) and FM (Local). Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion. See at: [FLB \(Local\)](#) and [FM \(Local\)](#).

**Use of E-mail for Official Correspondence to Students:** All students should be familiar with the college's official email student notification policy. Students are expected to check their CBC email on a frequent and regular basis to stay current with college-related communications, recognizing that certain communications may be time-critical.

**Copyright Law and Intellectual Property Rights Policy:** Copyright is the right of an author, artist, composer, or other creator of a work of authorship to control the use of his or her work by others. Protection extends to literary works, musical works, dramatic works, pantomimes and choreographic works, pictorial and graphic works, sculpture, motion pictures and other audiovisual works, sound recordings and architectural works. Generally speaking, a copyrighted work may not be reproduced by others without the copyright owner's permission. The public display or performance of copyrighted works is similarly restricted. Generally, the unauthorized reproduction, performance or distribution of a copyrighted work is copyright infringement and may subject the infringer to civil and criminal penalties. The Fair Use Doctrine outlines exceptions to this Law and is outlined in Coastal Bend College Policy, [CT \(Legal\)](#).

Coastal Bend College, its faculty, students, and employees must comply with Copyright Law. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy [CT \(Legal\)](#) and [CT \(Local\)](#).

Questions regarding this information should be directed to the Director of Library Services at: [library@coastalbend.edu](mailto:library@coastalbend.edu) or the Office of Marketing and Public Relations at: [socialmedia@coastalbend.edu](mailto:socialmedia@coastalbend.edu).

**Intellectual Property:** Student /Third Party Works: Rights to copyrightable or patentable works created by a student or a third party, that is, not a College District employee, shall reside with the author/ creator. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy [CT \(Legal\)](#) and [CT \(Local\)](#).

Questions regarding this information should be directed to the Director of Library Services at: [library@coastalbend.edu](mailto:library@coastalbend.edu) or the Office of Marketing and Public Relations at: [socialmedia@coastalbend.edu](mailto:socialmedia@coastalbend.edu).

**NOTE:** The College website (<http://coastalbend.edu>) Serves as the main source with the most current version of the Coastal Bend College Board Policies and the Coastal Bend College Catalog.

Student success is our number one priority at Coastal Bend College, and we realize that prompt, effective communication (such as emails, assignment feedback, discussion boards and announcements) plays a significant role in achieving that goal. It is vitally important that you have the proper contact information for your instructor. This should include their phone number, email address, and if applicable, their office number, and office hours. **Faculty schedules can be located online at <http://coastalbend.edu/hb2504/>** If you have any problems contacting your instructor, or do not receive a prompt response to your inquiries, please contact the Dean or Division Coordinator/Program Director as soon as possible. Their contact information is provided below:

Jarod Bleibdrey Dean of Career and Technical Education 361-354-2339 <a href="mailto:jbleibdrey@coastalbend.edu">jbleibdrey@coastalbend.edu</a>	Macedonio Gonzalez Coordinator of Industrial Workforce 361-354-2571 <a href="mailto:mgonzalez@coastalbend.edu">mgonzalez@coastalbend.edu</a>
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We wish you all the best in your education and encourage you to contact us if you have any questions or concerns.

Keeping student success in sight, faculty in each of the courses will review the course information, including specific reading schedules, assignments, and testing information, with students during the first week of class.

Additionally, the course information will be posted to Blackboard.

***This Master syllabus is subject to change due to unforeseen circumstances.***