Course Syllabus
Automotive Electronics
AUMT 2437

Course Description: Study of electronic principles applied to microcomputers and communication systems. Includes digital fundamentals, and use of electronic test equipment. May be taught manufacturer specific.

Semester Hours Credit: 4

Lecture/Lab Hours: This course meets for (2) lecture and (6) lab hours per week

Prerequisite: Advanced

Textbook(s): Automotive Technology, Erjavec, Jack. 5th ed. ISBN#9781428311

End-of-Course-Outcomes: 1. Employ proper safety procedures
2. Use scan tools, digital storage oscilloscopes, and other electronic test equipment
3. Apply electronic principles to the diagnosis of microcomputers, analysis of communication circuits, and interpretation of sensor data.

Evaluation Methods: Written Exams
Classroom Participation
Lab Work
Safety Practices

GRADING PROCEDURES:

Classroom (Test and Participation) 30%
Lab Project Completion and Safety 30%
Attendance 20%
Final Exam 20%

Student Learning Outcome: Student will use personal responsibility skills to Use scan tools, digital storage oscilloscopes, and other electronic test equipment. Assessment will be conducted by locating and testing circuit protection in lab demonstration in the 3rd quarter. The target for this SLO is 90% of students will pass by 70% or better.
**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: [GL (Legal)]

**Special Needs Services:** Students with special needs, including physical and learning disabilities, who wish to request accommodations in this course should contact the Student Development Office as soon as possible to make arrangements; this should occur no later than the second week of class or as soon as the student has the documentation on the disability and requested accommodation per a certified medical or psychological professional. In accordance with federal law, a student requesting accommodations must provide documentation of disability to the Student Development Advisor.

For more information, contact: in Alice at sdalice@coastalbend.edu; Beeville at sdbeeville@coastalbend.edu; Kingsville at sdkingsville@coastalbend.edu; and Pleasanton at sdpleasanton@coastalbend.edu.

**Academic 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)].

See the [Student Handbook] for further explanation of Scholastic Dishonesty.

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

**NOTE:** The College website [www.coastalbend.edu](http://www.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.

**CIP Code Description:** 47.0604 (Automobile/Automotive Mechanics Technology/Technician)