Auto 771 & 846 PS Syllabus – Fall/09

Instructor: Thomas G. Broxholm
Office Location: 8111
Office Hours: 1:00 – 2:00 PM
Class Duration: 48 hours
Meeting days: T – R
Dates: 10/20 – 12/17

Phone: 650-738-4131
Email: Broxholm@smccd.edu
Website: www.smccd.edu/accounts/broxholm
Minimum: 42 hours
Times: 6:40 – 9:45 PM

COURSE DESCRIPTION:

This course is designed to give the student a good understanding of automotive electrical system diagnosis. The student will learn how to read wiring diagrams, use test equipment, and use logic when diagnosing electrical problems.

STUDENT LEARNING OUTCOMES:

Upon successful completion of the course the student will be able to:

1. Analyze and describe the operation of most automotive body electrical circuits.
2. Form a decisive analytical procedure for most automotive body electrical problems.
3. Properly diagnose most automotive body electrical problems.

TEXTBOOK AND OTHER MATERIALS:

Electrical II Auto 771/846 (Book 16) -Required-

1 1/2" 3 Ring binder

4 High Lighters of the following colors. Pink, Blue, Green, and one other color of your choice

12 Scantron answer sheets and a number 2 pencil.

Note taking paper and a writing instrument.

CLASS FORMAT:

Lecture is approximately 60% Lab is approximately 40%

CLASSROOM POLICIES & PROCEDURES:

Student Conduct:

Conduct in class is very important and all students are expected to act as an adult college student. That means being ready to start class on the designated time, being prepared for class by having paper, pencil, Scantrons, safety glasses. No social talking during lecture, no cell phones, no immature noise making, no throwing of objects, no plagiarism, no cheating on tests or quizzes and no copying of someone else's work. All students are expected to complete all homework and take home assignments on time.

Cell Phones:

Cell phones must be turned off during class except when the teacher allow you to use them as a calculator or stop watch.

SMOKING:

Smoking is only allowed in designated parking lot area which are clearly marked.

GRADING POLICY:

Grading is done on a point system using category weights., The student must achieve 70% or better for a passing grade.

Attendance:	5%	Homework:	30%
Lab:	30%	Final Exam:	35%

Course grading is:

A = 90% - 100% B = 80% - 89.9% C = 70% - 79.9%

D = 60% - 69.9% F = 59.9% and below.

Withdrawal Policy

To withdraw from a class students should access WebSMART registration or obtain an Add/Drop form from the Office of Admissions and Records in Building 2. Official withdrawal is the responsibility of the student. A withdrawal with a refund is subject to refund deadlines. A student who does not withdraw in accordance with established procedures may receive a penalty grade. *Refer to the Student Handbook for more information.*

RESOURCES:

DSPS

The Disabled Student Program and Services is designed to equalize the educational opportunities for students with disabilities. Further information may be obtained from the DSPS office, Bldg 2, Room 2350. The telephone number is 650-738-4280 and Fax number is 650-738-4228.

Academic Integrity

Academic dishonesty occurs when a student attempts to show possession of a level of knowledge or skill, which he or she does not possess. The two most common kinds of academic dishonesty are "Cheating" and "Plagiarism." Cheating is the act of obtaining or attempting to obtain academic work through the use of dishonest, deceptive or fraudulent acts. Plagiarism is representing the work of someone else as his/her own and submitting it to fulfill academic requirements.

Student Services

Support services available to students include the Library and Learning Center (Bldg.5), Student Services, One Stop Center, Housing, Registration, Financial Aid, Placement Testing, Admissions, Counseling, DSPS, Special Programs, Health Center and CALT Labs. In coordination with the DSPS office, reasonable accommodation will be provided for eligible students with disabilities. If you do not yet have an accommodation letter, please contact the DSPS office at 650-738-4280.

TUESDAY	THURSDAY
10/20 Orientation. Purchase book. Digital Numbers and Meter Displays.	**10/22** **Due Today** Digital Meters Lab, Meter/Number Worksheet. Test equipment, Using Test equipment & Circuit testing concepts. Advanced Diagnostic Techniques and understanding circuit testing concepts.
10/27 **Due Today** Read the Meter Section and answer the questions that start on page 48. Answer the questions on a scantron answer sheet and use a # 2 pencil. Read the Troubleshooting, Manuals & Symbols section that starts on page 63. Service manuals and symbols.	**10/29** No class.
11/03 Read the test equipment section that starts on page 51 and answer the multiple choice question that start on page 61. Answer the questions on a scantron answer sheet with a # 2 pencil. **Classroom LAB.**	**11/05** Straight Electrical Circuits. **(High Liters Today)** Operation, diagnosis & worksheets. Troubleshooting, Manuals & Symbols Homework is due today. Pages: 85 to 88 on a scantron answer sheet.
11/10 Extra Credit: Due today. Read the basic electrical section. Answer the questions on pages 39 to 42 on a scantron answer sheet. More Straight Circuits Straight High Lighting part 1 homework is due. Items 1 through 4 pages 112, 114-123	**11/12** **No School**
11/17 Straight electrical circuit on car **LAB**. Bring your own meter, jumper wires and test light if youhave them.	**11/19** Straight electrical circuit homework Item 5 & part 2 is due. Pages 112, 113, 124 to 135. Relay operated electrical circuits. Operation, diagnosis, & worksheets.
11/24 Return and go over straight electrical homework.	**11/26** **No School**
12/01 **Classroom lab** (Relay circuit testing)	**12/03** More Relay circuits Relay electrical circuit homework objectives 1 – 6 is due. Pages 164, 165, 169 to 174**.**
12/08 Relay electrical circuit on car **LAB.**	**12/10** Relay electrical circuit homework objectives 7 - 16 is due. Pages 165 – 168, 175 – 179
12/15 Return and go over relay circuit homework. VW Diagrams, Review homework, Final exam review.	**12/17** **FINAL EXAM**