



## AUTT 1030 Automotive Brake Systems

### COURSE SYLLABUS

### Fall Semester 2017

#### COURSE INFORMATION

Credit Hours/Minutes: 4/5250  
Class Location: SECCA Building AT-2  
Class Meets: MTWR 8:00AM-12:10PM  
CRN: 20034

#### INSTRUCTOR CONTACT INFORMATION

Instructor Name: Travis Williams  
Office Location: SECCA/Room AT-1  
Office Hours: MT 6:00PM-9:30PM  
Email Address: [twilliams@southeasterntech.edu](mailto:twilliams@southeasterntech.edu)  
Phone: 912-538-3155  
Fax Number:  
Tutoring Hours (if applicable): See Instructor

#### REQUIRED TEXT



HALDERMAN **AUTOMOTIVE TECHNOLOGY - PRINCIPLES, DIAGNOSIS, AND SERVICE**

PEARSON

#### REQUIRED SUPPLIES & SOFTWARE

Required items include; Automotive Technology Book, Automotive Technology lab manual, Safety Glasses, 1" Binder notebook for lab sheets, and Approved Uniform, STC Automotive Technology Shirts. (Shirts can be purchased in the bookstore)  
Recommended, but not required; Nitrile Gloves, Mechanics Gloves.

#### COURSE DESCRIPTION

Introduces brake systems theory and its application to automotive systems and anti-lock brake system (ABS) to include ABS components and ABS operation, testing, and diagnosis.

#### MAJOR COURSE COMPETENCIES

General Brake System Diagnosis, Hydraulic System Diagnosis and Repair, Drum Brake Diagnosis and Repair, Disc Brake Diagnosis and Repair, Power Assist Units Diagnosis and Repair, Miscellaneous Brake Components.

#### PREREQUISITE(S)

CO-requisites: All Required

## COURSE OUTLINE:

- I. General Brake Systems
- II. Hydraulic Systems
- III. Drum Brake Systems
- IV. Disc Brake Systems
- V. Power Assist Units
- VI. Miscellaneous Brake Components

## GENERAL EDUCATION CORE COMPETENCIES

STC has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

## STUDENT REQUIREMENTS

Assignments must be completed on the specified date. All work must be turned in at the beginning of class on the specified due dates. If a student is absent from class, all work must be turned in at the beginning of class the next day upon returning to class. If this is not done, then a grade of zero will be given on the work. Failure to take tests on the scheduled day will result in a grade of zero for the test not taken. The makeup test must be taken the next day upon returning to class. The zero assigned for the missed test will be replaced with the grade the student makes on the makeup exam. **STUDENTS WILL ONLY BE ALLOWED TO TAKE ONE MAKEUP TEST DURING THE SEMESTER!!!!**

## ATTENDANCE GUIDELINES

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of F and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an F in a course.

## SPECIAL NEEDS

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), to coordinate reasonable accommodations.

## SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

## PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please advise me and make appropriate arrangements with Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu).

## WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" is assigned when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of 'F' being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. All grades, including grades of 'W', will count in attempted hour calculations for the purpose of Financial Aid.

**Remember** - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above.

## EXIT EXAM

## WORK ETHICS

The Technical College System of Georgia instructs and evaluates students on work ethics in all programs of study. Ten work ethics traits have been identified and defined as essential for student success: appearance, attendance, attitude, character, communication, cooperation, organizational skills, productivity, respect, and teamwork. Students will be required to take a work ethics exam as marked in the lesson plan. A grade of 70 or better is required to complete the work ethics requirements for this class.

## MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC...)

Statement will vary per program, course, or instructor. Information should be included pertaining to such items as tests, quizzes, homework, etc.....

## ACADEMIC DISHONESTY POLICY

The STC Academic Dishonesty Policy states All forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the STC Catalog and Student Handbook.

## PROCEDURE FOR ACADEMIC MISCONDUCT

The procedure for dealing with academic misconduct and dishonesty is as follows:

### 1. First Offense

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

### 2. Second Offense

Student is given a grade of "WF" for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

### 3. Third Offense

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

## STATEMENT OF NON-DISCRIMINATION

The Technical College System of Georgia and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member or citizenship status (except in those special circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

<b>ADA/Section 504 - Equity- Title IX (Students) - OCR Compliance Officer</b>	<b>Title VI - Title IX (Employees) - EEOC Officer</b>
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 108 Phone: 912-538-3126 <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a>	Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3147 <a href="mailto:bwilcox@southeasterntech.edu">bwilcox@southeasterntech.edu</a>

## GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on STC's website.

## ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [STC website](#).

## TCSG GUARANTEE/WARRANTY STATEMENT

*The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.*

## GRADING POLICY

Assessment/Assignment	Percentage
EXAMS	35%
LAB ACTIVITIES	30%
ASSIGNMENTS	15%
FINALS	20%
WORK ETHICS	

## GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

## AUTT 1030 Automotive Brake Systems

### Fall Semester 2018 lesson plan

<b>Date/Week</b>	<b>Chapter/Lesson</b>	<b>Content</b>	<b>Assignments &amp; Tests Due Dates</b>	<b>Competency Area</b>
AUG 14 <sup>th</sup>	CH 92-93	General Brake System Diagnosis	CH's 92-93; lab, test, quizzes, PP, lecture	NATEF P1 1,a,b,c
AUG 15 <sup>th</sup>	CH 92-93	General Brake System Diagnosis	CH's 92-93; lab, test, quizzes, PP, lecture	NATEF P1 1,a,b,c
AUG 21 <sup>st</sup>	CH 92-93	General Brake System Diagnosis	CH's 92-93; lab, test, quizzes, PP, lecture	NATEF P1 1,a,b,c
AUG 22 <sup>nd</sup>	CH 92-93	General Brake System Diagnosis	CH's 92-93 test, lab assignments due, homework assignment due.	NATEF P1 1,a,b,c
AUG 28 <sup>th</sup>	CH 94-97	Hydraulic System Diagnosis and Repair	CH's 94-97; lab, test, quizzes, PP, lecture	NATEF P1, P2, P3 2,a,b,c
AUG 29 <sup>th</sup>	CH 94-97	Hydraulic System Diagnosis and Repair	CH's 94-97; lab, test, quizzes, PP, lecture	NATEF P1, P2, P3 2,a,b,c
SEP 4 <sup>th</sup>	CH 94-97	Hydraulic System Diagnosis and Repair	CH's 94-97; lab, test, quizzes, PP, lecture	NATEF P1, P2, P3 2,a,b,c
SEP 5 <sup>th</sup>	CH 94-97	Hydraulic System Diagnosis and Repair	CH's 94-97 test, lab assignments due, homework assignment due.	NATEF P1, P2, P3 2,a,b,c
SEP 11 <sup>th</sup>	CH 99-100	Drum Brake Diagnosis and Repair	CH's 99-100; lab, test, quizzes, PP, lecture	NATEF P1, P3, 3,a,b,c
SEP 12 <sup>th</sup>	CH 99-100	Drum Brake Diagnosis and Repair	CH's 99-100; lab, test, quizzes, PP, lecture	NATEF P1, P3, 3,a,b,c
SEP 18 <sup>th</sup>	CH 99-100	Drum Brake Diagnosis and Repair	CH's 99-100; lab, test, quizzes, PP, lecture	NATEF P1, P3, 3,a,b,c
SEP 19 <sup>th</sup>	CH 99-100	Drum Brake Diagnosis and Repair	CH's 99-100 test, lab assignments due, homework assignment due.	NATEF P1, P3, 3,a,b,c
SEP 25 <sup>th</sup>	CH 101-104	Disc Brake Diagnosis and Repair	CH's 101-104; lab, test, quizzes, PP, lecture	NATEF P1, P2, 4,a,b,c

<b>Date/Week</b>	<b>Chapter/Lesson</b>	<b>Content</b>	<b>Assignments &amp; Tests Due Dates</b>	<b>Competency Area</b>
SEP 26 <sup>th</sup>	CH 101-104	Disc Brake Diagnosis and Repair	CH's 101-104; lab, test, quizzes, PP, lecture	NATEF P1, P2, 4,a,b,c
OCT 2 <sup>nd</sup>	CH 101-104	Disc Brake Diagnosis and Repair	CH's 101-104; lab, test, quizzes, PP, lecture	NATEF P1, P2, 4,a,b,c
OCT 3 <sup>rd</sup>	CH 101-104	Disc Brake Diagnosis and Repair	CH's 101-104 test, lab assignments due, homework assignment due.	NATEF P1, P2, 4,a,b,c
OCT 9 <sup>th</sup>	CH 105	Power Assist Units Diagnosis and Repair	CH 105; lab, test, quizzes, PP, lecture	NATEF P1, P2, P3, 3,5,a,b,c
OCT 10 <sup>th</sup>	CH 105	Power Assist Units Diagnosis and Repair	CH 105; lab, test, quizzes, PP, lecture	NATEF P1, P2, P3, 3,5,a,b,c
OCT 16 <sup>th</sup>	CH 105	Power Assist Units Diagnosis and Repair	CH 105; lab, test, quizzes, PP, lecture	NATEF P1, P2, P3, 3,5,a,b,c
OCT 17 <sup>th</sup>	CH 105	Power Assist Units Diagnosis and Repair	CH 105 test, lab assignments due, homework assignment due.	NATEF P1, P2, P3, 3,5,a,b,c
OCT 23 <sup>rd</sup>	CH 98	Miscellaneous Brake Components	CH 98; lab, test, quizzes, PP, lecture	NATEF P1,P2,P3,6,a,b,c
OCT 24 <sup>th</sup>	CH 98	Miscellaneous Brake Components	CH 98; lab, test, quizzes, PP, lecture	NATEF P1,P2,P3,6,a,b,c
OCT 30 <sup>th</sup>	CH 98	Miscellaneous Brake Components	CH 98; lab, test, quizzes, PP, lecture	NATEF P1,P2,P3,6,a,b,c
OCT 31 <sup>st</sup>	CH 98	Miscellaneous Brake Components	CH 98 test, lab assignments due, homework assignment due.	NATEF P1,P2,P3,6,a,b,c
NOV 6 <sup>th</sup>	CH's 106-108	Electronic Brake, Traction, and Stability Control	CH's 106-108 ; lab, test, quizzes, PP, lecture	NATEF P1,P2,P3,7,a,b,c
NOV 7 <sup>th</sup>	CH's 106-108	Electronic Brake, Traction, and Stability Control	CH's 106-108 ; lab, test, quizzes, PP, lecture	NATEF P1,P2,P3,7,a,b,c
NOV 13 <sup>th</sup>	CH's 106-108	Electronic Brake, Traction, and Stability Control	CH's 106-108 ; lab, test, quizzes, PP, lecture	NATEF P1,P2,P3,7,a,b,c
NOV 14 <sup>th</sup>	CH's 106-108	Electronic Brake, Traction, and Stability Control	CH's 106-108 test, lab assignments due, homework assignment due.	NATEF P1,P2,P3,7,a,b,c
NOV 20 <sup>th</sup>		PREPARE FOR FINALS ALL WORK DUE		

<b>Date/Week</b>	<b>Chapter/Lesson</b>	<b>Content</b>	<b>Assignments &amp; Tests Due Dates</b>	<b>Competency Area</b>
NOV 21 <sup>st</sup>		PREPARE FOR FINALS ALL WORK DUE		
NOV 27 <sup>th</sup>		FINALS		
NOV 28 <sup>th</sup>		FINALS		

**Competency Areas:**

- 1. General Brake System Diagnosis**
- 2. Hydraulic Brake System Diagnosis and Repair**
- 3. Drum Brake System Diagnosis and Repair**
- 4. Disc Brake System Diagnosis and Repair**
- 5. Power Assist Units Diagnosis and Repair**
- 6. Miscellaneous Brake Components**
- 7. Electronic Brake Control Systems**

**General Core Educational Competencies**

- a) The ability to utilize standard written English.
- b) The ability to solve practical mathematical problems.
- c) The ability to read, analyze, and interpret information.