



**ELCR-2150 Fluid Power  
COURSE SYLLABUS  
Traditional  
Fall Semester 2017**

**COURSE INFORMATION**

Credit Hours/Minutes: 2 Hours / 2250 Minutes  
Class Location: RMTTC, Room 827, Vidalia Campus  
Class Meets: Monday and Wednesday (MW), 3:00 PM to 4:15 PM  
CRN: 20028  
Preferred Method of Contact: Text or Email to Instructor

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: William (Chip) Greene  
Office Location: RMTTC Room 822, Vidalia Campus  
Office Hours: Monday through Thursday, 10:30 AM to Noon, 1:00 PM to 3:00 PM  
Email Address: [wgreene@southeasterntech.edu](mailto:wgreene@southeasterntech.edu)  
Phone: (912) 538-3102  
Fax Number: (912) 538-3106

**REQUIRED TEXT**

*Fluid Power Learning Activity Packets*  
by AMATROL, # 11101-BA  
(10 volume set)



**REQUIRED SUPPLIES & SOFTWARE**

Engineering / Scientific Calculator  
For the required videos, see your instructor.

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor GVTC provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

**COURSE DESCRIPTION**

Provides an overview of fluid power operation as applied to industrial electronics. Emphasis is placed on

the interfacing of electronic and fluidic systems. Topics include: safety, fluid dynamics, hydraulics, pneumatics, air logic, and electrical interfacing.

### **PREREQUISITE(S)**

Program Admission

### **MAJOR COURSE COMPETENCIES / COURSE OUTLINE**

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### **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 (TRADITIONAL)**

Students are expected to complete all tests and comprehensive problems by the due dates. A ten point penalty will be assessed for each day a comprehensive problem is late. There are no makeup tests. Tests are made available for several days; therefore, there are no makeup tests. Students who miss a test will be assigned a grade of zero. Students are responsible for policies and procedures included in the STC E-Catalog. All online students must pledge that they have read and understand the STC Online Orientation within the first five days of class. Online students are responsible for checking e-mails and Blackboard announcements DAILY.

### **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.

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

Students are required to take all tests and complete all assignments scheduled during the semester. Failure to take Tests/Exam(s) and complete assignments will result in a grade of zero. There will be no makeup of assignments or EXAMS. If Internet or browser failure occurs, contact instructor immediately. A decision will be made at that time if the exam will be reset. Instructor reserves the right to deduct points from the exam scores for exceeding the scheduled time limit on the exam and/or requiring student to come to campus to take the final exam. Note: If student notifies instructor about exam problems because of technical issues after the due date or on the last day of the semester, the student will NOT be allowed to make-up the exam. No exceptions! Assignments must be turned in on the assigned date and will not be accepted late, a grade of zero will be given. ALL Assignments are due according to the lesson plan.

## 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 third 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
Self-Review Questions	15%
LAP Exams	25%
Laboratory Skills	35%
Final Exam	25%

## GRADING SCALE

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

### **\*\*Disclaimer Statements\*\***

- (1) Instructor reserves the right to change the syllabus and/or lesson plan as necessary.**
- (2) The official copy of the syllabus is located inside the student's online course shell or will be given to them during face to face class time the first day of the semester. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.**

## ELCR-2150 Fluid Power

### Fall Semester 2017 Lesson Plan

#### WEEK 1

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 14	1		<b>[On BLACKBOARD]</b> Read / Review <b>START HERE</b> information POST to appropriate <b>Message Boards</b> Download/Review all material	a,c
15	1	LAP 1 – Hydraulic Power Systems	Review <b>OBJECTIVE 1</b> Activity 1 – <b>VIDEO NOT AVAILABLE</b> Review <b>OBJECTIVE 2</b> <b>Complete ACTIVITY 2</b> Review <b>OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,2,3, a,b,c
16	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 1 Self-Review Questions</b> Review <b>OBJECTIVE 4</b>	2,3, b,c
17	1	LAP 1 – Hydraulic Power Systems	<b>Complete ACTIVITY 3</b> <b>Complete ACTIVITY 4</b> <b>Complete SKILL 2</b> <b>Complete SKILL 3</b>	1,2,3, a,b,c

#### WEEK 2

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 21	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 2 Self-Review Questions</b> Review <b>OBJECTIVE 5</b> Review <b>OBJECTIVE 6</b>	2,3, b,c
22	1	LAP 1 – Hydraulic Power Systems	<b>Complete SKILL 4</b> Review <b>OBJECTIVE 7</b> <b>Complete SKILL 5</b> Review <b>OBJECTIVE 8</b>	1,2,3, a,b,c
23	2	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 3 Self-Review Questions</b> Review <b>OBJECTIVE 9</b> Review <b>OBJECTIVE 10</b>	2,3, b,c
24	2	LAP 1 – Hydraulic Power Systems  <b>BLACKBOARD</b>	<b>Complete ACTIVITY 5</b> Review <b>OBJECTIVE 11</b> Review <b>OBJECTIVE 12</b> <b>Complete ACTIVITY 6</b> <b>Complete SKILL 6</b> <b>Complete SKILL 7</b> Do <b>SEGMENT 4 Self-Review Questions</b> Do <b>LAP 1 Exam</b>	1,2,3, a,b,c

### WEEK 3

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 28	2	LAP 2 – Basic Hydraulic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	
29	2	LAP 2 – Basic Hydraulic Circuits	Complete SKILL 1 <b>ACTIVITY 1 – DO NOT DO THIS ONE</b> Review OBJECTIVE 3 Complete ACTIVITY 2 Review OBJECTIVE 4	1,2,3, a,b,c
30	2	<b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	2,3, b,c
31	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete ACTIVITY 3 Complete SKILL 2 Complete SKILL 3 Do SEGMENT 2 Self-Review Questions Review OBJECTIVE 7 Review OBJECTIVE 8 Complete SKILL 4 Review OBJECTIVE 9 Do SEGMENT 3 Self-Review Questions Review OBJECTIVE 10	1,2,3, a,b,c
Sept 4		HOLIDAY – LABOR DAY	HOLIDAY – LABOR DAY	

### WEEK 4

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 5	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Complete SKILL 7 Do SEGMENT 4 Self-Review Questions	1,2,3, a,b,c
6	2, 3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do LAP 2 Exam Review OBJECTIVE 1 Complete SKILL 1	2,3, b,c
7	3	LAP 3 – Hydraulic Pressure & Flow	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Complete SKILL 4	1,2,3, a,b,c
11	3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3	2,3, b,c

## WEEK 5

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 12	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b>	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 4</b> <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b>	1,2,3, a,b,c
13	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow	<b>Review OBJECTIVE 5</b> <b>Review OBJECTIVE 6</b>	2,3, c
14	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b>	<b>Complete SKILL 5</b> <b>Complete ACTIVITY 3</b> <b>Review OBJECTIVE 7</b> <b>Complete ACTIVITY 4</b> <b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 8</b> <b>Review OBJECTIVE 9</b>  <b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 3 Exam</b>	1,2,3, a,b,c
18	<b>4</b>	LAP 4 – Hydraulic Speed Control	<b>Review OBJECTIVE 1</b> <b>Review OBJECTIVE 2</b> <b>Review OBJECTIVE 3</b>	2,3, c

## WEEK 6

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 19	<b>4</b>	LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 1</b> <b>Review OBJECTIVE 4</b> <b>Complete ACTIVITY 1</b> <b>Do SEGMENT 1 Self-Review Questions</b>  <b>Review OBJECTIVE 5</b> <b>Review OBJECTIVE 6</b> <b>Complete ACTIVITY 2</b> <b>Complete SKILL 2</b>	1,2,3, a,b,c
20	<b>4</b>	<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b>  <b>Review OBJECTIVE 7</b> <b>Review OBJECTIVE 8</b>	2,3, b,c
21	<b>4</b>	LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 3</b> <b>Review OBJECTIVE 9</b> <b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 10</b> <b>Complete SKILL 4</b>	1,2,3, a,b,c
25	<b>4</b>	LAP 4 – Hydraulic Speed Control	<b>Review OBJECTIVE 11</b>	2,3, c



## WEEK 7

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 26		LAP 4 – Hydraulic Speed Control <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 5</b> <b>Do SEGMENT 4 Self-Review Questions</b> Review OBJECTIVE 12 <b>Complete SKILL 6</b> Review OBJECTIVE 13 <b>Complete SKILL 7</b>	1,2,3, a,b,c
27		<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 5 Self-Review Questions</b> Review OBJECTIVE 14 <b>Complete SKILL 8</b>	2,3, b,c
28		LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b>	Review OBJECTIVE 15 <b>Complete SKILL 9</b> Review OBJECTIVE 16 <b>Complete SKILL 10</b> <b>Do SEGMENT 6 Self-Review Questions</b> <b>Do LAP 4 Exam</b>	1,2,3, a,b,c
Oct 2	5	LAP 5 – Pressure Control Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, c

## WEEK 8

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 3	5	LAP 5 – Pressure Control Circuits <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	<b>Complete SKILL 1</b> <b>Complete SKILL 2</b> <b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 3 <b>Complete ACTIVITY 1</b>	1,2,3, a,b,c
4	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Complete SKILL 3</b> Review OBJECTIVE 5 <b>Complete SKILL 4</b>	2,3, b,c
5	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	Review OBJECTIVE 6 <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 7 Review OBJECTIVE 8 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,2,3, a,b,c
9	5	<b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits MIDTERM	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 9	2,3, b,c

## WEEK 9

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 10	5	<b>BLACKBOARD</b>	<b>Complete ACTIVITY 3</b> <b>Complete SKILL 7</b> <b>Review OBJECTIVE 10</b> <b>Complete ACTIVITY 4</b>	1,2,3, a,b,c
11	5, 6	<b>BLACKBOARD</b>  LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 5 Exam</b>  <b>Review OBJECTIVE 1</b> <b>Review OBJECTIVE 2</b>	2,3, b,c
12	6	LAP 6 – Pneumatic Power Systems	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,4,5, a,b,c
16	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	<b>Review OBJECTIVE 4</b> <b>Do SEGMENT 1 Self-Review Questions</b>	4, b,c

## WEEK 10

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 17	6	LAP 6 – Pneumatic Power Systems	<b>Review OBJECTIVE 5</b> <b>Complete ACTIVITY 2</b> <b>Review OBJECTIVE 6</b> <b>Review OBJECTIVE 7</b> <b>Complete SKILL 2</b> <b>Review OBJECTIVE 8</b> <b>Review OBJECTIVE 9</b> <b>Complete SKILL 3</b>	1,4, a,b,c
18	6	<b>BLACKBOARD</b>	<b>Do SEGMENT 2 Self-Review Questions</b>	4, b,c
19	6	LAP 6 – Pneumatic Power Systems	<b>Review OBJECTIVE 10</b> <b>Complete SKILL 4</b> <b>Review OBJECTIVE 11</b> <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,4, a,b,c
23	6	<b>BLACKBOARD</b> LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 12</b> <b>Review OBJECTIVE 13</b>	4, b,c

## WEEK 11

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 24	6	LAP 6 – Pneumatic Power Systems <b>65% Point for Full Term Fall Semester</b>	<b>Complete ACTIVITY 3</b> <b>Review OBJECTIVE 14</b> <b>Review OBJECTIVE 15</b> <b>Complete SKILL 7</b>	1,4, a,b,c
25		Catch-Up Day	Catch-Up Day	
26	6	LAP 6 – Pneumatic Power Systems	<b>Complete SKILL 8</b>	4, b,c
30	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 6 Exam</b>	4, b,c

## WEEK 12

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 31	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2 Complete ACTIVITY 1 Review OBJECTIVE 3 Review OBJECTIVE 4 Complete SKILL 1	1,4,5, a,b,c
Nov 1	7	<b>BLACKBOARD</b> LAP 7 – Basic Pneumatic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	4,5, b,c
2	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 7 Complete ACTIVITY 2 Review OBJECTIVE 8 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
6	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 9 Complete SKILL 3 Review OBJECTIVE 10 Complete SKILL 4	4,5, b,c

## WEEK 13

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 7	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Do SEGMENT 3 Self-Review Questions Do LAP 7 Exam <b>SKIP SEGMENT 4 of LAP 7</b>	1,4,5,6 ,a,b,c
8	8	LAP 8 – Pneumatic Pressure & Flow	Review OBJECTIVE 1 Complete SKILL 1	4,5, b,c
9	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3 Complete ACTIVITY 1 Review OBJECTIVE 4 Complete ACTIVITY 2 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
13	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Review OBJECTIVE 5 Complete SKILL 4 Review OBJECTIVE 6 Review OBJECTIVE 7 Complete SKILL 5	4,5, b,c

**WEEK 14**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 14	8	LAP 8 – Pneumatic Pressure & Flow <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow	<b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 8 Review OBJECTIVE 9 Review OBJECTIVE 10 <b>Complete SKILL 6</b> Review OBJECTIVE 11 <b>Complete ACTIVITY 4</b>	1,4,5,6 , a,b,c
15	8, 9	<b>BLACKBOARD</b>  LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 8 Exam</b> Review OBJECTIVE 1 Review OBJECTIVE 2	4,5, a,b,c
16	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 1</b> Review OBJECTIVE 3 <b>Complete SKILL 2</b> Review OBJECTIVE 4 Review OBJECTIVE 5 <b>Complete SKILL 3</b>	1,4,5,6 , a,b,c
20	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 6 Review OBJECTIVE 7	4,5, b,c

**WEEK 15**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 21	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 4</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 5</b> Review OBJECTIVE 10 <b>Complete ACTIVITY 1</b>	1,4,5,6 ,a,b,c
22		HOLIDAY - THANKSGIVING	HOLIDAY - THANKSGIVING	
23		HOLIDAY - THANKSGIVING	HOLIDAY - THANKSGIVING	
27	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 11	5, b,c
28	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 6</b> Review OBJECTIVE 12 <b>Complete SKILL 7</b> Review OBJECTIVE 13 <b>Complete SKILL 8</b>	1,4,5,6 , a,b,c
29	9	LAP 9 – Pneumatic Speed Control	Review OBJECTIVE 14	4,5, b,c
30	9	LAP 9 – Pneumatic Speed Control  <b>BLACKBOARD</b>	<b>Complete SKILL 9</b> <b>Complete SKILL 10</b> Review OBJECTIVE 15 <b>Complete SKILL 11</b> <b>Do SEGMENT 3 Self-Review Questions</b> <b>Do LAP 9 Exam</b>	1,4,5,6 , a,b,c

## FINAL EXAM WEEK

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Dec 5	1 – 9	Day 1 of Final Exams	<b>Fluid Power Final Exam</b>	1-6, b,c
6	1 – 9	Day 2 of Final Exams	<b>(Complete by Midnight of Day 2)</b>	1-6, b,c

### Competency Areas:

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### 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.



**ELCR-2150 Fluid Power  
COURSE SYLLABUS  
Traditional  
Fall Semester 2017**

**COURSE INFORMATION**

Credit Hours/Minutes: 2 Hours / 2250 Minutes  
Class Location: RMTTC, Room 827, Vidalia Campus  
Class Meets: Monday and Wednesday (MW), 3:00 PM to 4:15 PM  
CRN: 20028  
Preferred Method of Contact: Text or Email to Instructor

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: William (Chip) Greene  
Office Location: RMTTC Room 822, Vidalia Campus  
Office Hours: Monday through Thursday, 10:30 AM to Noon, 1:00 PM to 3:00 PM  
Email Address: [wgreene@southeasterntech.edu](mailto:wgreene@southeasterntech.edu)  
Phone: (912) 538-3102  
Fax Number: (912) 538-3106

**REQUIRED TEXT**

*Fluid Power Learning Activity Packets*  
by AMATROL, # 11101-BA  
(10 volume set)



**REQUIRED SUPPLIES & SOFTWARE**

Engineering / Scientific Calculator  
For the required videos, see your instructor.

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor GVTC provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

**COURSE DESCRIPTION**

Provides an overview of fluid power operation as applied to industrial electronics. Emphasis is placed on

the interfacing of electronic and fluidic systems. Topics include: safety, fluid dynamics, hydraulics, pneumatics, air logic, and electrical interfacing.

### **PREREQUISITE(S)**

Program Admission

### **MAJOR COURSE COMPETENCIES / COURSE OUTLINE**

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### **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 (TRADITIONAL)**

Students are expected to complete all tests and comprehensive problems by the due dates. A ten point penalty will be assessed for each day a comprehensive problem is late. There are no makeup tests. Tests are made available for several days; therefore, there are no makeup tests. Students who miss a test will be assigned a grade of zero. Students are responsible for policies and procedures included in the STC E-Catalog. All online students must pledge that they have read and understand the STC Online Orientation within the first five days of class. Online students are responsible for checking e-mails and Blackboard announcements DAILY.

### **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.

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

Students are required to take all tests and complete all assignments scheduled during the semester. Failure to take Tests/Exam(s) and complete assignments will result in a grade of zero. There will be no makeup of assignments or EXAMS. If Internet or browser failure occurs, contact instructor immediately. A decision will be made at that time if the exam will be reset. Instructor reserves the right to deduct points from the exam scores for exceeding the scheduled time limit on the exam and/or requiring student to come to campus to take the final exam. Note: If student notifies instructor about exam problems because of technical issues after the due date or on the last day of the semester, the student will NOT be allowed to make-up the exam. No exceptions! Assignments must be turned in on the assigned date and will not be accepted late, a grade of zero will be given. ALL Assignments are due according to the lesson plan.

## 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 third 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
Self-Review Questions	15%
LAP Exams	25%
Laboratory Skills	35%
Final Exam	25%

## GRADING SCALE

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

### **\*\*Disclaimer Statements\*\***

- (1) Instructor reserves the right to change the syllabus and/or lesson plan as necessary.**
- (2) The official copy of the syllabus is located inside the student's online course shell or will be given to them during face to face class time the first day of the semester. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.**

## ELCR-2150 Fluid Power

### Fall Semester 2017 Lesson Plan

#### WEEK 1

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 14	1		<b>[On BLACKBOARD]</b> Read / Review <b>START HERE</b> information POST to appropriate <b>Message Boards</b> Download/Review all material	a,c
15	1	LAP 1 – Hydraulic Power Systems	Review <b>OBJECTIVE 1</b> Activity 1 – <b>VIDEO NOT AVAILABLE</b> Review <b>OBJECTIVE 2</b> <b>Complete ACTIVITY 2</b> Review <b>OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,2,3, a,b,c
16	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 1 Self-Review Questions</b> Review <b>OBJECTIVE 4</b>	2,3, b,c
17	1	LAP 1 – Hydraulic Power Systems	<b>Complete ACTIVITY 3</b> <b>Complete ACTIVITY 4</b> <b>Complete SKILL 2</b> <b>Complete SKILL 3</b>	1,2,3, a,b,c

#### WEEK 2

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 21	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 2 Self-Review Questions</b> Review <b>OBJECTIVE 5</b> Review <b>OBJECTIVE 6</b>	2,3, b,c
22	1	LAP 1 – Hydraulic Power Systems	<b>Complete SKILL 4</b> Review <b>OBJECTIVE 7</b> <b>Complete SKILL 5</b> Review <b>OBJECTIVE 8</b>	1,2,3, a,b,c
23	2	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 3 Self-Review Questions</b> Review <b>OBJECTIVE 9</b> Review <b>OBJECTIVE 10</b>	2,3, b,c
24	2	LAP 1 – Hydraulic Power Systems  <b>BLACKBOARD</b>	<b>Complete ACTIVITY 5</b> Review <b>OBJECTIVE 11</b> Review <b>OBJECTIVE 12</b> <b>Complete ACTIVITY 6</b> <b>Complete SKILL 6</b> <b>Complete SKILL 7</b> Do <b>SEGMENT 4 Self-Review Questions</b> Do <b>LAP 1 Exam</b>	1,2,3, a,b,c

### WEEK 3

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 28	2	LAP 2 – Basic Hydraulic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	
29	2	LAP 2 – Basic Hydraulic Circuits	Complete SKILL 1 <b>ACTIVITY 1 – DO NOT DO THIS ONE</b> Review OBJECTIVE 3 Complete ACTIVITY 2 Review OBJECTIVE 4	1,2,3, a,b,c
30	2	<b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	2,3, b,c
31	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete ACTIVITY 3 Complete SKILL 2 Complete SKILL 3 Do SEGMENT 2 Self-Review Questions Review OBJECTIVE 7 Review OBJECTIVE 8 Complete SKILL 4 Review OBJECTIVE 9 Do SEGMENT 3 Self-Review Questions Review OBJECTIVE 10	1,2,3, a,b,c
Sept 4		HOLIDAY – LABOR DAY	HOLIDAY – LABOR DAY	

### WEEK 4

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 5	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Complete SKILL 7 Do SEGMENT 4 Self-Review Questions	1,2,3, a,b,c
6	2, 3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do LAP 2 Exam Review OBJECTIVE 1 Complete SKILL 1	2,3, b,c
7	3	LAP 3 – Hydraulic Pressure & Flow	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Complete SKILL 4	1,2,3, a,b,c
11	3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3	2,3, b,c

## WEEK 5

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 12	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b>	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 4</b> <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b>	1,2,3, a,b,c
13	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow	<b>Review OBJECTIVE 5</b> <b>Review OBJECTIVE 6</b>	2,3, c
14	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b>	<b>Complete SKILL 5</b> <b>Complete ACTIVITY 3</b> <b>Review OBJECTIVE 7</b> <b>Complete ACTIVITY 4</b> <b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 8</b> <b>Review OBJECTIVE 9</b>  <b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 3 Exam</b>	1,2,3, a,b,c
18	<b>4</b>	LAP 4 – Hydraulic Speed Control	<b>Review OBJECTIVE 1</b> <b>Review OBJECTIVE 2</b> <b>Review OBJECTIVE 3</b>	2,3, c

## WEEK 6

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 19	<b>4</b>	LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 1</b> <b>Review OBJECTIVE 4</b> <b>Complete ACTIVITY 1</b> <b>Do SEGMENT 1 Self-Review Questions</b>  <b>Review OBJECTIVE 5</b> <b>Review OBJECTIVE 6</b> <b>Complete ACTIVITY 2</b> <b>Complete SKILL 2</b>	1,2,3, a,b,c
20	<b>4</b>	<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b>  <b>Review OBJECTIVE 7</b> <b>Review OBJECTIVE 8</b>	2,3, b,c
21	<b>4</b>	LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 3</b> <b>Review OBJECTIVE 9</b> <b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 10</b> <b>Complete SKILL 4</b>	1,2,3, a,b,c
25	<b>4</b>	LAP 4 – Hydraulic Speed Control	<b>Review OBJECTIVE 11</b>	2,3, c

## WEEK 7

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 26		LAP 4 – Hydraulic Speed Control <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 5</b> <b>Do SEGMENT 4 Self-Review Questions</b> Review OBJECTIVE 12 <b>Complete SKILL 6</b> Review OBJECTIVE 13 <b>Complete SKILL 7</b>	1,2,3, a,b,c
27		<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 5 Self-Review Questions</b> Review OBJECTIVE 14 <b>Complete SKILL 8</b>	2,3, b,c
28		LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b>	Review OBJECTIVE 15 <b>Complete SKILL 9</b> Review OBJECTIVE 16 <b>Complete SKILL 10</b> <b>Do SEGMENT 6 Self-Review Questions</b> <b>Do LAP 4 Exam</b>	1,2,3, a,b,c
Oct 2	5	LAP 5 – Pressure Control Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, c

## WEEK 8

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 3	5	LAP 5 – Pressure Control Circuits <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	<b>Complete SKILL 1</b> <b>Complete SKILL 2</b> <b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 3 <b>Complete ACTIVITY 1</b>	1,2,3, a,b,c
4	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Complete SKILL 3</b> Review OBJECTIVE 5 <b>Complete SKILL 4</b>	2,3, b,c
5	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	Review OBJECTIVE 6 <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 7 Review OBJECTIVE 8 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,2,3, a,b,c
9	5	<b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits MIDTERM	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 9	2,3, b,c

## WEEK 9

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 10	5	<b>BLACKBOARD</b>	<b>Complete ACTIVITY 3</b> <b>Complete SKILL 7</b> <b>Review OBJECTIVE 10</b> <b>Complete ACTIVITY 4</b>	1,2,3, a,b,c
11	5, 6	<b>BLACKBOARD</b>  LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 5 Exam</b>  Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, b,c
12	6	LAP 6 – Pneumatic Power Systems	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,4,5, a,b,c
16	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Do SEGMENT 1 Self-Review Questions</b>	4, b,c

## WEEK 10

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 17	6	LAP 6 – Pneumatic Power Systems	Review OBJECTIVE 5 <b>Complete ACTIVITY 2</b> Review OBJECTIVE 6 Review OBJECTIVE 7 <b>Complete SKILL 2</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 3</b>	1,4, a,b,c
18	6	<b>BLACKBOARD</b>	<b>Do SEGMENT 2 Self-Review Questions</b>	4, b,c
19	6	LAP 6 – Pneumatic Power Systems	Review OBJECTIVE 10 <b>Complete SKILL 4</b> Review OBJECTIVE 11 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,4, a,b,c
23	6	<b>BLACKBOARD</b> LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 12 Review OBJECTIVE 13	4, b,c

## WEEK 11

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 24	6	LAP 6 – Pneumatic Power Systems <b>65% Point for Full Term Fall Semester</b>	<b>Complete ACTIVITY 3</b> Review OBJECTIVE 14 Review OBJECTIVE 15 <b>Complete SKILL 7</b>	1,4, a,b,c
25		Catch-Up Day	Catch-Up Day	
26	6	LAP 6 – Pneumatic Power Systems	<b>Complete SKILL 8</b>	4, b,c
30	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 6 Exam</b>	4, b,c

## WEEK 12

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 31	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2 Complete ACTIVITY 1 Review OBJECTIVE 3 Review OBJECTIVE 4 Complete SKILL 1	1,4,5, a,b,c
Nov 1	7	<b>BLACKBOARD</b> LAP 7 – Basic Pneumatic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	4,5, b,c
2	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 7 Complete ACTIVITY 2 Review OBJECTIVE 8 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
6	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 9 Complete SKILL 3 Review OBJECTIVE 10 Complete SKILL 4	4,5, b,c

## WEEK 13

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 7	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Do SEGMENT 3 Self-Review Questions Do LAP 7 Exam <b>SKIP SEGMENT 4 of LAP 7</b>	1,4,5,6 ,a,b,c
8	8	LAP 8 – Pneumatic Pressure & Flow	Review OBJECTIVE 1 Complete SKILL 1	4,5, b,c
9	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3 Complete ACTIVITY 1 Review OBJECTIVE 4 Complete ACTIVITY 2 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
13	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Review OBJECTIVE 5 Complete SKILL 4 Review OBJECTIVE 6 Review OBJECTIVE 7 Complete SKILL 5	4,5, b,c



**WEEK 14**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 14	8	LAP 8 – Pneumatic Pressure & Flow <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow	<b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 8 Review OBJECTIVE 9 Review OBJECTIVE 10 <b>Complete SKILL 6</b> Review OBJECTIVE 11 <b>Complete ACTIVITY 4</b>	1,4,5,6 , a,b,c
15	8, 9	<b>BLACKBOARD</b>  LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 8 Exam</b> Review OBJECTIVE 1 Review OBJECTIVE 2	4,5, a,b,c
16	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 1</b> Review OBJECTIVE 3 <b>Complete SKILL 2</b> Review OBJECTIVE 4 Review OBJECTIVE 5 <b>Complete SKILL 3</b>	1,4,5,6 , a,b,c
20	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 6 Review OBJECTIVE 7	4,5, b,c

**WEEK 15**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 21	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 4</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 5</b> Review OBJECTIVE 10 <b>Complete ACTIVITY 1</b>	1,4,5,6 ,a,b,c
22		<b>HOLIDAY - THANKSGIVING</b>	<b>HOLIDAY - THANKSGIVING</b>	
23		<b>HOLIDAY - THANKSGIVING</b>	<b>HOLIDAY - THANKSGIVING</b>	
27	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 11	5, b,c
28	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 6</b> Review OBJECTIVE 12 <b>Complete SKILL 7</b> Review OBJECTIVE 13 <b>Complete SKILL 8</b>	1,4,5,6 , a,b,c
29	9	LAP 9 – Pneumatic Speed Control	Review OBJECTIVE 14	4,5, b,c
30	9	LAP 9 – Pneumatic Speed Control  <b>BLACKBOARD</b>	<b>Complete SKILL 9</b> <b>Complete SKILL 10</b> Review OBJECTIVE 15 <b>Complete SKILL 11</b> <b>Do SEGMENT 3 Self-Review Questions</b> <b>Do LAP 9 Exam</b>	1,4,5,6 , a,b,c

## FINAL EXAM WEEK

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Dec 5	1 – 9	Day 1 of Final Exams	<b>Fluid Power Final Exam</b>	1-6, b,c
6	1 – 9	Day 2 of Final Exams	<b>(Complete by Midnight of Day 2)</b>	1-6, b,c

### Competency Areas:

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### 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.



**ELCR-2150 Fluid Power  
COURSE SYLLABUS  
Traditional  
Fall Semester 2017**

**COURSE INFORMATION**

Credit Hours/Minutes: 2 Hours / 2250 Minutes  
Class Location: RMTTC, Room 827, Vidalia Campus  
Class Meets: Monday and Wednesday (MW), 3:00 PM to 4:15 PM  
CRN: 20028  
Preferred Method of Contact: Text or Email to Instructor

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: William (Chip) Greene  
Office Location: RMTTC Room 822, Vidalia Campus  
Office Hours: Monday through Thursday, 10:30 AM to Noon, 1:00 PM to 3:00 PM  
Email Address: [wgreene@southeasterntech.edu](mailto:wgreene@southeasterntech.edu)  
Phone: (912) 538-3102  
Fax Number: (912) 538-3106

**REQUIRED TEXT**

*Fluid Power Learning Activity Packets*  
by AMATROL, # 11101-BA  
(10 volume set)



**REQUIRED SUPPLIES & SOFTWARE**

Engineering / Scientific Calculator  
For the required videos, see your instructor.

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor GVTC provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

**COURSE DESCRIPTION**

Provides an overview of fluid power operation as applied to industrial electronics. Emphasis is placed on

the interfacing of electronic and fluidic systems. Topics include: safety, fluid dynamics, hydraulics, pneumatics, air logic, and electrical interfacing.

### **PREREQUISITE(S)**

Program Admission

### **MAJOR COURSE COMPETENCIES / COURSE OUTLINE**

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### **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 (TRADITIONAL)**

Students are expected to complete all tests and comprehensive problems by the due dates. A ten point penalty will be assessed for each day a comprehensive problem is late. There are no makeup tests. Tests are made available for several days; therefore, there are no makeup tests. Students who miss a test will be assigned a grade of zero. Students are responsible for policies and procedures included in the STC E-Catalog. All online students must pledge that they have read and understand the STC Online Orientation within the first five days of class. Online students are responsible for checking e-mails and Blackboard announcements DAILY.

### **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.

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

Students are required to take all tests and complete all assignments scheduled during the semester. Failure to take Tests/Exam(s) and complete assignments will result in a grade of zero. There will be no makeup of assignments or EXAMS. If Internet or browser failure occurs, contact instructor immediately. A decision will be made at that time if the exam will be reset. Instructor reserves the right to deduct points from the exam scores for exceeding the scheduled time limit on the exam and/or requiring student to come to campus to take the final exam. Note: If student notifies instructor about exam problems because of technical issues after the due date or on the last day of the semester, the student will NOT be allowed to make-up the exam. No exceptions! Assignments must be turned in on the assigned date and will not be accepted late, a grade of zero will be given. ALL Assignments are due according to the lesson plan.

## 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 third 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
Self-Review Questions	15%
LAP Exams	25%
Laboratory Skills	35%
Final Exam	25%

## GRADING SCALE

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

### **\*\*Disclaimer Statements\*\***

- (1) Instructor reserves the right to change the syllabus and/or lesson plan as necessary.**
- (2) The official copy of the syllabus is located inside the student's online course shell or will be given to them during face to face class time the first day of the semester. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.**

# ELCR-2150 Fluid Power

## Fall Semester 2017 Lesson Plan

### WEEK 1

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 14	1		[On BLACKBOARD] Read / Review <b>START HERE</b> information POST to appropriate <b>Message Boards</b> Download/Review all material	a,c
15	1	LAP 1 – Hydraulic Power Systems	Review <b>OBJECTIVE 1</b> Activity 1 – <b>VIDEO NOT AVAILABLE</b> Review <b>OBJECTIVE 2</b> <b>Complete ACTIVITY 2</b> Review <b>OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,2,3, a,b,c
16	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 1 Self-Review Questions</b> Review <b>OBJECTIVE 4</b>	2,3, b,c
17	1	LAP 1 – Hydraulic Power Systems	<b>Complete ACTIVITY 3</b> <b>Complete ACTIVITY 4</b> <b>Complete SKILL 2</b> <b>Complete SKILL 3</b>	1,2,3, a,b,c

### WEEK 2

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 21	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 2 Self-Review Questions</b> Review <b>OBJECTIVE 5</b> Review <b>OBJECTIVE 6</b>	2,3, b,c
22	1	LAP 1 – Hydraulic Power Systems	<b>Complete SKILL 4</b> Review <b>OBJECTIVE 7</b> <b>Complete SKILL 5</b> Review <b>OBJECTIVE 8</b>	1,2,3, a,b,c
23	2	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 3 Self-Review Questions</b> Review <b>OBJECTIVE 9</b> Review <b>OBJECTIVE 10</b>	2,3, b,c
24	2	LAP 1 – Hydraulic Power Systems  <b>BLACKBOARD</b>	<b>Complete ACTIVITY 5</b> Review <b>OBJECTIVE 11</b> Review <b>OBJECTIVE 12</b> <b>Complete ACTIVITY 6</b> <b>Complete SKILL 6</b> <b>Complete SKILL 7</b> Do <b>SEGMENT 4 Self-Review Questions</b> Do <b>LAP 1 Exam</b>	1,2,3, a,b,c



### WEEK 3

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 28	2	LAP 2 – Basic Hydraulic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	
29	2	LAP 2 – Basic Hydraulic Circuits	Complete SKILL 1 <b>ACTIVITY 1 – DO NOT DO THIS ONE</b> Review OBJECTIVE 3 Complete ACTIVITY 2 Review OBJECTIVE 4	1,2,3, a,b,c
30	2	<b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	2,3, b,c
31	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete ACTIVITY 3 Complete SKILL 2 Complete SKILL 3 Do SEGMENT 2 Self-Review Questions Review OBJECTIVE 7 Review OBJECTIVE 8 Complete SKILL 4 Review OBJECTIVE 9 Do SEGMENT 3 Self-Review Questions Review OBJECTIVE 10	1,2,3, a,b,c
Sept 4		HOLIDAY – LABOR DAY	HOLIDAY – LABOR DAY	

### WEEK 4

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 5	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Complete SKILL 7 Do SEGMENT 4 Self-Review Questions	1,2,3, a,b,c
6	2, 3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do LAP 2 Exam Review OBJECTIVE 1 Complete SKILL 1	2,3, b,c
7	3	LAP 3 – Hydraulic Pressure & Flow	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Complete SKILL 4	1,2,3, a,b,c
11	3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3	2,3, b,c

## WEEK 5

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 12	3	LAP 3 – Hydraulic Pressure & Flow  BLACKBOARD	Complete ACTIVITY 1 Review OBJECTIVE 4 Complete ACTIVITY 2 Do SEGMENT 2 Self-Review Questions	1,2,3, a,b,c
13	3	LAP 3 – Hydraulic Pressure & Flow	Review OBJECTIVE 5 Review OBJECTIVE 6	2,3, c
14	3	LAP 3 – Hydraulic Pressure & Flow  BLACKBOARD LAP 3 – Hydraulic Pressure & Flow  BLACKBOARD	Complete SKILL 5 Complete ACTIVITY 3 Review OBJECTIVE 7 Complete ACTIVITY 4 Do SEGMENT 3 Self-Review Questions Review OBJECTIVE 8 Review OBJECTIVE 9 Do SEGMENT 4 Self-Review Questions Do LAP 3 Exam	1,2,3, a,b,c
18	4	LAP 4 – Hydraulic Speed Control	Review OBJECTIVE 1 Review OBJECTIVE 2 Review OBJECTIVE 3	2,3, c

## WEEK 6

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 19	4	LAP 4 – Hydraulic Speed Control  BLACKBOARD LAP 4 – Hydraulic Speed Control	Complete SKILL 1 Review OBJECTIVE 4 Complete ACTIVITY 1 Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6 Complete ACTIVITY 2 Complete SKILL 2	1,2,3, a,b,c
20	4	BLACKBOARD LAP 4 – Hydraulic Speed Control	Do SEGMENT 2 Self-Review Questions Review OBJECTIVE 7 Review OBJECTIVE 8	2,3, b,c
21	4	LAP 4 – Hydraulic Speed Control  BLACKBOARD LAP 4 – Hydraulic Speed Control	Complete SKILL 3 Review OBJECTIVE 9 Complete ACTIVITY 3 Do SEGMENT 3 Self-Review Questions Review OBJECTIVE 10 Complete SKILL 4	1,2,3, a,b,c
25	4	LAP 4 – Hydraulic Speed Control	Review OBJECTIVE 11	2,3, c

## WEEK 7

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 26		LAP 4 – Hydraulic Speed Control <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 5</b> <b>Do SEGMENT 4 Self-Review Questions</b> Review OBJECTIVE 12 <b>Complete SKILL 6</b> Review OBJECTIVE 13 <b>Complete SKILL 7</b>	1,2,3, a,b,c
27		<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 5 Self-Review Questions</b> Review OBJECTIVE 14 <b>Complete SKILL 8</b>	2,3, b,c
28		LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b>	Review OBJECTIVE 15 <b>Complete SKILL 9</b> Review OBJECTIVE 16 <b>Complete SKILL 10</b> <b>Do SEGMENT 6 Self-Review Questions</b> <b>Do LAP 4 Exam</b>	1,2,3, a,b,c
Oct 2	5	LAP 5 – Pressure Control Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, c

## WEEK 8

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 3	5	LAP 5 – Pressure Control Circuits <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	<b>Complete SKILL 1</b> <b>Complete SKILL 2</b> <b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 3 <b>Complete ACTIVITY 1</b>	1,2,3, a,b,c
4	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Complete SKILL 3</b> Review OBJECTIVE 5 <b>Complete SKILL 4</b>	2,3, b,c
5	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	Review OBJECTIVE 6 <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 7 Review OBJECTIVE 8 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,2,3, a,b,c
9	5	<b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits MIDTERM	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 9	2,3, b,c

## WEEK 9

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 10	5	<b>BLACKBOARD</b>	<b>Complete ACTIVITY 3</b> <b>Complete SKILL 7</b> <b>Review OBJECTIVE 10</b> <b>Complete ACTIVITY 4</b>	1,2,3, a,b,c
11	5, 6	<b>BLACKBOARD</b>  LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 5 Exam</b>  Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, b,c
12	6	LAP 6 – Pneumatic Power Systems	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,4,5, a,b,c
16	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Do SEGMENT 1 Self-Review Questions</b>	4, b,c

## WEEK 10

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 17	6	LAP 6 – Pneumatic Power Systems	Review OBJECTIVE 5 <b>Complete ACTIVITY 2</b> Review OBJECTIVE 6 Review OBJECTIVE 7 <b>Complete SKILL 2</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 3</b>	1,4, a,b,c
18	6	<b>BLACKBOARD</b>	<b>Do SEGMENT 2 Self-Review Questions</b>	4, b,c
19	6	LAP 6 – Pneumatic Power Systems	Review OBJECTIVE 10 <b>Complete SKILL 4</b> Review OBJECTIVE 11 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,4, a,b,c
23	6	<b>BLACKBOARD</b> LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 12 Review OBJECTIVE 13	4, b,c

## WEEK 11

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 24	6	LAP 6 – Pneumatic Power Systems <b>65% Point for Full Term Fall Semester</b>	<b>Complete ACTIVITY 3</b> Review OBJECTIVE 14 Review OBJECTIVE 15 <b>Complete SKILL 7</b>	1,4, a,b,c
25		Catch-Up Day	Catch-Up Day	
26	6	LAP 6 – Pneumatic Power Systems	<b>Complete SKILL 8</b>	4, b,c
30	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 6 Exam</b>	4, b,c

## WEEK 12

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 31	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2 Complete ACTIVITY 1 Review OBJECTIVE 3 Review OBJECTIVE 4 Complete SKILL 1	1,4,5, a,b,c
Nov 1	7	<b>BLACKBOARD</b> LAP 7 – Basic Pneumatic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	4,5, b,c
2	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 7 Complete ACTIVITY 2 Review OBJECTIVE 8 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
6	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 9 Complete SKILL 3 Review OBJECTIVE 10 Complete SKILL 4	4,5, b,c

## WEEK 13

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 7	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Do SEGMENT 3 Self-Review Questions Do LAP 7 Exam <b>SKIP SEGMENT 4 of LAP 7</b>	1,4,5,6 ,a,b,c
8	8	LAP 8 – Pneumatic Pressure & Flow	Review OBJECTIVE 1 Complete SKILL 1	4,5, b,c
9	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3 Complete ACTIVITY 1 Review OBJECTIVE 4 Complete ACTIVITY 2 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
13	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Review OBJECTIVE 5 Complete SKILL 4 Review OBJECTIVE 6 Review OBJECTIVE 7 Complete SKILL 5	4,5, b,c

**WEEK 14**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 14	8	LAP 8 – Pneumatic Pressure & Flow <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow	<b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 8 Review OBJECTIVE 9 Review OBJECTIVE 10 <b>Complete SKILL 6</b> Review OBJECTIVE 11 <b>Complete ACTIVITY 4</b>	1,4,5,6 , a,b,c
15	8, 9	<b>BLACKBOARD</b>  LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 8 Exam</b> Review OBJECTIVE 1 Review OBJECTIVE 2	4,5, a,b,c
16	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 1</b> Review OBJECTIVE 3 <b>Complete SKILL 2</b> Review OBJECTIVE 4 Review OBJECTIVE 5 <b>Complete SKILL 3</b>	1,4,5,6 , a,b,c
20	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 6 Review OBJECTIVE 7	4,5, b,c

**WEEK 15**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 21	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 4</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 5</b> Review OBJECTIVE 10 <b>Complete ACTIVITY 1</b>	1,4,5,6 ,a,b,c
22		HOLIDAY - THANKSGIVING	HOLIDAY - THANKSGIVING	
23		HOLIDAY - THANKSGIVING	HOLIDAY - THANKSGIVING	
27	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 11	5, b,c
28	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 6</b> Review OBJECTIVE 12 <b>Complete SKILL 7</b> Review OBJECTIVE 13 <b>Complete SKILL 8</b>	1,4,5,6 , a,b,c
29	9	LAP 9 – Pneumatic Speed Control	Review OBJECTIVE 14	4,5, b,c
30	9	LAP 9 – Pneumatic Speed Control  <b>BLACKBOARD</b>	<b>Complete SKILL 9</b> <b>Complete SKILL 10</b> Review OBJECTIVE 15 <b>Complete SKILL 11</b> <b>Do SEGMENT 3 Self-Review Questions</b> <b>Do LAP 9 Exam</b>	1,4,5,6 , a,b,c

## FINAL EXAM WEEK

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Dec 5	1 – 9	Day 1 of Final Exams	<b>Fluid Power Final Exam</b>	1-6, b,c
6	1 – 9	Day 2 of Final Exams	<b>(Complete by Midnight of Day 2)</b>	1-6, b,c

### Competency Areas:

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### 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.



**ELCR-2150 Fluid Power  
COURSE SYLLABUS  
Traditional  
Fall Semester 2017**

**COURSE INFORMATION**

Credit Hours/Minutes: 2 Hours / 2250 Minutes  
Class Location: RMTTC, Room 827, Vidalia Campus  
Class Meets: Monday and Wednesday (MW), 3:00 PM to 4:15 PM  
CRN: 20028  
Preferred Method of Contact: Text or Email to Instructor

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: William (Chip) Greene  
Office Location: RMTTC Room 822, Vidalia Campus  
Office Hours: Monday through Thursday, 10:30 AM to Noon, 1:00 PM to 3:00 PM  
Email Address: [wgreene@southeasterntech.edu](mailto:wgreene@southeasterntech.edu)  
Phone: (912) 538-3102  
Fax Number: (912) 538-3106

**REQUIRED TEXT**

*Fluid Power Learning Activity Packets*  
by AMATROL, # 11101-BA  
(10 volume set)



**REQUIRED SUPPLIES & SOFTWARE**

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the interfacing of electronic and fluidic systems. Topics include: safety, fluid dynamics, hydraulics, pneumatics, air logic, and electrical interfacing.

### **PREREQUISITE(S)**

Program Admission

### **MAJOR COURSE COMPETENCIES / COURSE OUTLINE**

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Students are expected to complete all tests and comprehensive problems by the due dates. A ten point penalty will be assessed for each day a comprehensive problem is late. There are no makeup tests. Tests are made available for several days; therefore, there are no makeup tests. Students who miss a test will be assigned a grade of zero. Students are responsible for policies and procedures included in the STC E-Catalog. All online students must pledge that they have read and understand the STC Online Orientation within the first five days of class. Online students are responsible for checking e-mails and Blackboard announcements DAILY.

### **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.

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

Students are required to take all tests and complete all assignments scheduled during the semester. Failure to take Tests/Exam(s) and complete assignments will result in a grade of zero. There will be no makeup of assignments or EXAMS. If Internet or browser failure occurs, contact instructor immediately. A decision will be made at that time if the exam will be reset. Instructor reserves the right to deduct points from the exam scores for exceeding the scheduled time limit on the exam and/or requiring student to come to campus to take the final exam. Note: If student notifies instructor about exam problems because of technical issues after the due date or on the last day of the semester, the student will NOT be allowed to make-up the exam. No exceptions! Assignments must be turned in on the assigned date and will not be accepted late, a grade of zero will be given. ALL Assignments are due according to the lesson plan.

## 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 third 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
Self-Review Questions	15%
LAP Exams	25%
Laboratory Skills	35%
Final Exam	25%

## GRADING SCALE

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

### **\*\*Disclaimer Statements\*\***

- (1) Instructor reserves the right to change the syllabus and/or lesson plan as necessary.
- (2) The official copy of the syllabus is located inside the student's online course shell or will be given to them during face to face class time the first day of the semester. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.

# ELCR-2150 Fluid Power

## Fall Semester 2017 Lesson Plan

### WEEK 1

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 14	1		<b>[On BLACKBOARD]</b> Read / Review <b>START HERE</b> information POST to appropriate <b>Message Boards</b> Download/Review all material	a,c
15	1	LAP 1 – Hydraulic Power Systems	Review <b>OBJECTIVE 1</b> Activity 1 – <b>VIDEO NOT AVAILABLE</b> Review <b>OBJECTIVE 2</b> <b>Complete ACTIVITY 2</b> Review <b>OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,2,3, a,b,c
16	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 1 Self-Review Questions</b> Review <b>OBJECTIVE 4</b>	2,3, b,c
17	1	LAP 1 – Hydraulic Power Systems	<b>Complete ACTIVITY 3</b> <b>Complete ACTIVITY 4</b> <b>Complete SKILL 2</b> <b>Complete SKILL 3</b>	1,2,3, a,b,c

### WEEK 2

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 21	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 2 Self-Review Questions</b> Review <b>OBJECTIVE 5</b> Review <b>OBJECTIVE 6</b>	2,3, b,c
22	1	LAP 1 – Hydraulic Power Systems	<b>Complete SKILL 4</b> Review <b>OBJECTIVE 7</b> <b>Complete SKILL 5</b> Review <b>OBJECTIVE 8</b>	1,2,3, a,b,c
23	2	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 3 Self-Review Questions</b> Review <b>OBJECTIVE 9</b> Review <b>OBJECTIVE 10</b>	2,3, b,c
24	2	LAP 1 – Hydraulic Power Systems  <b>BLACKBOARD</b>	<b>Complete ACTIVITY 5</b> Review <b>OBJECTIVE 11</b> Review <b>OBJECTIVE 12</b> <b>Complete ACTIVITY 6</b> <b>Complete SKILL 6</b> <b>Complete SKILL 7</b> Do <b>SEGMENT 4 Self-Review Questions</b> Do <b>LAP 1 Exam</b>	1,2,3, a,b,c

### WEEK 3

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 28	2	LAP 2 – Basic Hydraulic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	
29	2	LAP 2 – Basic Hydraulic Circuits	Complete SKILL 1 <b>ACTIVITY 1 – DO NOT DO THIS ONE</b> Review OBJECTIVE 3 Complete ACTIVITY 2 Review OBJECTIVE 4	1,2,3, a,b,c
30	2	<b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	2,3, b,c
31	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete ACTIVITY 3 Complete SKILL 2 Complete SKILL 3 Do SEGMENT 2 Self-Review Questions Review OBJECTIVE 7 Review OBJECTIVE 8 Complete SKILL 4 Review OBJECTIVE 9 Do SEGMENT 3 Self-Review Questions Review OBJECTIVE 10	1,2,3, a,b,c
Sept 4		HOLIDAY – LABOR DAY	HOLIDAY – LABOR DAY	

### WEEK 4

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 5	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Complete SKILL 7 Do SEGMENT 4 Self-Review Questions	1,2,3, a,b,c
6	2, 3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do LAP 2 Exam Review OBJECTIVE 1 Complete SKILL 1	2,3, b,c
7	3	LAP 3 – Hydraulic Pressure & Flow	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Complete SKILL 4	1,2,3, a,b,c
11	3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3	2,3, b,c

## WEEK 5

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 12	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b>	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 4</b> <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b>	1,2,3, a,b,c
13	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow	<b>Review OBJECTIVE 5</b> <b>Review OBJECTIVE 6</b>	2,3, c
14	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b>	<b>Complete SKILL 5</b> <b>Complete ACTIVITY 3</b> <b>Review OBJECTIVE 7</b> <b>Complete ACTIVITY 4</b> <b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 8</b> <b>Review OBJECTIVE 9</b>  <b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 3 Exam</b>	1,2,3, a,b,c
18	<b>4</b>	LAP 4 – Hydraulic Speed Control	<b>Review OBJECTIVE 1</b> <b>Review OBJECTIVE 2</b> <b>Review OBJECTIVE 3</b>	2,3, c

## WEEK 6

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 19	<b>4</b>	LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 1</b> <b>Review OBJECTIVE 4</b> <b>Complete ACTIVITY 1</b> <b>Do SEGMENT 1 Self-Review Questions</b>  <b>Review OBJECTIVE 5</b> <b>Review OBJECTIVE 6</b> <b>Complete ACTIVITY 2</b> <b>Complete SKILL 2</b>	1,2,3, a,b,c
20	<b>4</b>	<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b>  <b>Review OBJECTIVE 7</b> <b>Review OBJECTIVE 8</b>	2,3, b,c
21	<b>4</b>	LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 3</b> <b>Review OBJECTIVE 9</b> <b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 10</b> <b>Complete SKILL 4</b>	1,2,3, a,b,c
25	<b>4</b>	LAP 4 – Hydraulic Speed Control	<b>Review OBJECTIVE 11</b>	2,3, c

## WEEK 7

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 26		LAP 4 – Hydraulic Speed Control <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 5</b> <b>Do SEGMENT 4 Self-Review Questions</b> Review OBJECTIVE 12 <b>Complete SKILL 6</b> Review OBJECTIVE 13 <b>Complete SKILL 7</b>	1,2,3, a,b,c
27		<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 5 Self-Review Questions</b> Review OBJECTIVE 14 <b>Complete SKILL 8</b>	2,3, b,c
28		LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b>	Review OBJECTIVE 15 <b>Complete SKILL 9</b> Review OBJECTIVE 16 <b>Complete SKILL 10</b> <b>Do SEGMENT 6 Self-Review Questions</b> <b>Do LAP 4 Exam</b>	1,2,3, a,b,c
Oct 2	5	LAP 5 – Pressure Control Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, c

## WEEK 8

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 3	5	LAP 5 – Pressure Control Circuits <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	<b>Complete SKILL 1</b> <b>Complete SKILL 2</b> <b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 3 <b>Complete ACTIVITY 1</b>	1,2,3, a,b,c
4	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Complete SKILL 3</b> Review OBJECTIVE 5 <b>Complete SKILL 4</b>	2,3, b,c
5	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	Review OBJECTIVE 6 <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 7 Review OBJECTIVE 8 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,2,3, a,b,c
9	5	<b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits MIDTERM	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 9	2,3, b,c



## WEEK 9

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 10	5	<b>BLACKBOARD</b>	<b>Complete ACTIVITY 3</b> <b>Complete SKILL 7</b> <b>Review OBJECTIVE 10</b> <b>Complete ACTIVITY 4</b>	1,2,3, a,b,c
11	5, 6	<b>BLACKBOARD</b>  LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 5 Exam</b>  Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, b,c
12	6	LAP 6 – Pneumatic Power Systems	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,4,5, a,b,c
16	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Do SEGMENT 1 Self-Review Questions</b>	4, b,c

## WEEK 10

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 17	6	LAP 6 – Pneumatic Power Systems	Review OBJECTIVE 5 <b>Complete ACTIVITY 2</b> Review OBJECTIVE 6 Review OBJECTIVE 7 <b>Complete SKILL 2</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 3</b>	1,4, a,b,c
18	6	<b>BLACKBOARD</b>	<b>Do SEGMENT 2 Self-Review Questions</b>	4, b,c
19	6	LAP 6 – Pneumatic Power Systems	Review OBJECTIVE 10 <b>Complete SKILL 4</b> Review OBJECTIVE 11 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,4, a,b,c
23	6	<b>BLACKBOARD</b> LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 12 Review OBJECTIVE 13	4, b,c

## WEEK 11

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 24	6	LAP 6 – Pneumatic Power Systems <b>65% Point for Full Term Fall Semester</b>	<b>Complete ACTIVITY 3</b> Review OBJECTIVE 14 Review OBJECTIVE 15 <b>Complete SKILL 7</b>	1,4, a,b,c
25		Catch-Up Day	Catch-Up Day	
26	6	LAP 6 – Pneumatic Power Systems	<b>Complete SKILL 8</b>	4, b,c
30	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 6 Exam</b>	4, b,c

## WEEK 12

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 31	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2 Complete ACTIVITY 1 Review OBJECTIVE 3 Review OBJECTIVE 4 Complete SKILL 1	1,4,5, a,b,c
Nov 1	7	<b>BLACKBOARD</b> LAP 7 – Basic Pneumatic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	4,5, b,c
2	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 7 Complete ACTIVITY 2 Review OBJECTIVE 8 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
6	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 9 Complete SKILL 3 Review OBJECTIVE 10 Complete SKILL 4	4,5, b,c

## WEEK 13

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 7	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Do SEGMENT 3 Self-Review Questions Do LAP 7 Exam <b>SKIP SEGMENT 4 of LAP 7</b>	1,4,5,6 ,a,b,c
8	8	LAP 8 – Pneumatic Pressure & Flow	Review OBJECTIVE 1 Complete SKILL 1	4,5, b,c
9	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3 Complete ACTIVITY 1 Review OBJECTIVE 4 Complete ACTIVITY 2 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
13	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Review OBJECTIVE 5 Complete SKILL 4 Review OBJECTIVE 6 Review OBJECTIVE 7 Complete SKILL 5	4,5, b,c

**WEEK 14**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 14	8	LAP 8 – Pneumatic Pressure & Flow <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow	<b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 8 Review OBJECTIVE 9 Review OBJECTIVE 10 <b>Complete SKILL 6</b> Review OBJECTIVE 11 <b>Complete ACTIVITY 4</b>	1,4,5,6 , a,b,c
15	8, 9	<b>BLACKBOARD</b>  LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 8 Exam</b> Review OBJECTIVE 1 Review OBJECTIVE 2	4,5, a,b,c
16	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 1</b> Review OBJECTIVE 3 <b>Complete SKILL 2</b> Review OBJECTIVE 4 Review OBJECTIVE 5 <b>Complete SKILL 3</b>	1,4,5,6 , a,b,c
20	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 6 Review OBJECTIVE 7	4,5, b,c

**WEEK 15**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 21	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 4</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 5</b> Review OBJECTIVE 10 <b>Complete ACTIVITY 1</b>	1,4,5,6 ,a,b,c
22		HOLIDAY - THANKSGIVING	HOLIDAY - THANKSGIVING	
23		HOLIDAY - THANKSGIVING	HOLIDAY - THANKSGIVING	
27	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 11	5, b,c
28	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 6</b> Review OBJECTIVE 12 <b>Complete SKILL 7</b> Review OBJECTIVE 13 <b>Complete SKILL 8</b>	1,4,5,6 , a,b,c
29	9	LAP 9 – Pneumatic Speed Control	Review OBJECTIVE 14	4,5, b,c
30	9	LAP 9 – Pneumatic Speed Control  <b>BLACKBOARD</b>	<b>Complete SKILL 9</b> <b>Complete SKILL 10</b> Review OBJECTIVE 15 <b>Complete SKILL 11</b> <b>Do SEGMENT 3 Self-Review Questions</b> <b>Do LAP 9 Exam</b>	1,4,5,6 , a,b,c

## FINAL EXAM WEEK

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Dec 5	1 – 9	Day 1 of Final Exams	<b>Fluid Power Final Exam</b>	1-6, b,c
6	1 – 9	Day 2 of Final Exams	<b>(Complete by Midnight of Day 2)</b>	1-6, b,c

### Competency Areas:

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### 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.



**ELCR-2150 Fluid Power  
COURSE SYLLABUS  
Traditional  
Fall Semester 2017**

**COURSE INFORMATION**

Credit Hours/Minutes: 2 Hours / 2250 Minutes  
Class Location: RMTTC, Room 827, Vidalia Campus  
Class Meets: Monday and Wednesday (MW), 3:00 PM to 4:15 PM  
CRN: 20028  
Preferred Method of Contact: Text or Email to Instructor

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: William (Chip) Greene  
Office Location: RMTTC Room 822, Vidalia Campus  
Office Hours: Monday through Thursday, 10:30 AM to Noon, 1:00 PM to 3:00 PM  
Email Address: [wgreene@southeasterntech.edu](mailto:wgreene@southeasterntech.edu)  
Phone: (912) 538-3102  
Fax Number: (912) 538-3106

**REQUIRED TEXT**

*Fluid Power Learning Activity Packets*  
by AMATROL, # 11101-BA  
(10 volume set)



**REQUIRED SUPPLIES & SOFTWARE**

Engineering / Scientific Calculator  
For the required videos, see your instructor.

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor GVTC provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

**COURSE DESCRIPTION**

Provides an overview of fluid power operation as applied to industrial electronics. Emphasis is placed on

the interfacing of electronic and fluidic systems. Topics include: safety, fluid dynamics, hydraulics, pneumatics, air logic, and electrical interfacing.

### **PREREQUISITE(S)**

Program Admission

### **MAJOR COURSE COMPETENCIES / COURSE OUTLINE**

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### **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 (TRADITIONAL)**

Students are expected to complete all tests and comprehensive problems by the due dates. A ten point penalty will be assessed for each day a comprehensive problem is late. There are no makeup tests. Tests are made available for several days; therefore, there are no makeup tests. Students who miss a test will be assigned a grade of zero. Students are responsible for policies and procedures included in the STC E-Catalog. All online students must pledge that they have read and understand the STC Online Orientation within the first five days of class. Online students are responsible for checking e-mails and Blackboard announcements DAILY.

### **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.

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

Students are required to take all tests and complete all assignments scheduled during the semester. Failure to take Tests/Exam(s) and complete assignments will result in a grade of zero. There will be no makeup of assignments or EXAMS. If Internet or browser failure occurs, contact instructor immediately. A decision will be made at that time if the exam will be reset. Instructor reserves the right to deduct points from the exam scores for exceeding the scheduled time limit on the exam and/or requiring student to come to campus to take the final exam. Note: If student notifies instructor about exam problems because of technical issues after the due date or on the last day of the semester, the student will NOT be allowed to make-up the exam. No exceptions! Assignments must be turned in on the assigned date and will not be accepted late, a grade of zero will be given. ALL Assignments are due according to the lesson plan.

## 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 third 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
Self-Review Questions	15%
LAP Exams	25%
Laboratory Skills	35%
Final Exam	25%

## GRADING SCALE

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

### **\*\*Disclaimer Statements\*\***

- (1) Instructor reserves the right to change the syllabus and/or lesson plan as necessary.**
- (2) The official copy of the syllabus is located inside the student's online course shell or will be given to them during face to face class time the first day of the semester. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.**

## ELCR-2150 Fluid Power

### Fall Semester 2017 Lesson Plan

#### WEEK 1

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 14	1		[On BLACKBOARD] Read / Review <b>START HERE</b> information POST to appropriate <b>Message Boards</b> Download/Review all material	a,c
15	1	LAP 1 – Hydraulic Power Systems	Review <b>OBJECTIVE 1</b> Activity 1 – VIDEO NOT AVAILABLE Review <b>OBJECTIVE 2</b> Complete <b>ACTIVITY 2</b> Review <b>OBJECTIVE 3</b> Complete <b>SKILL 1</b>	1,2,3, a,b,c
16	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 1 Self-Review Questions</b> Review <b>OBJECTIVE 4</b>	2,3, b,c
17	1	LAP 1 – Hydraulic Power Systems	Complete <b>ACTIVITY 3</b> Complete <b>ACTIVITY 4</b> Complete <b>SKILL 2</b> Complete <b>SKILL 3</b>	1,2,3, a,b,c

#### WEEK 2

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 21	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 2 Self-Review Questions</b> Review <b>OBJECTIVE 5</b> Review <b>OBJECTIVE 6</b>	2,3, b,c
22	1	LAP 1 – Hydraulic Power Systems	Complete <b>SKILL 4</b> Review <b>OBJECTIVE 7</b> Complete <b>SKILL 5</b> Review <b>OBJECTIVE 8</b>	1,2,3, a,b,c
23	2	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 3 Self-Review Questions</b> Review <b>OBJECTIVE 9</b> Review <b>OBJECTIVE 10</b>	2,3, b,c
24	2	LAP 1 – Hydraulic Power Systems  <b>BLACKBOARD</b>	Complete <b>ACTIVITY 5</b> Review <b>OBJECTIVE 11</b> Review <b>OBJECTIVE 12</b> Complete <b>ACTIVITY 6</b> Complete <b>SKILL 6</b> Complete <b>SKILL 7</b> Do <b>SEGMENT 4 Self-Review Questions</b> Do <b>LAP 1 Exam</b>	1,2,3, a,b,c

### WEEK 3

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 28	2	LAP 2 – Basic Hydraulic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	
29	2	LAP 2 – Basic Hydraulic Circuits	Complete SKILL 1 <b>ACTIVITY 1 – DO NOT DO THIS ONE</b> Review OBJECTIVE 3 Complete ACTIVITY 2 Review OBJECTIVE 4	1,2,3, a,b,c
30	2	<b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	2,3, b,c
31	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete ACTIVITY 3 Complete SKILL 2 Complete SKILL 3 Do SEGMENT 2 Self-Review Questions Review OBJECTIVE 7 Review OBJECTIVE 8 Complete SKILL 4 Review OBJECTIVE 9 Do SEGMENT 3 Self-Review Questions Review OBJECTIVE 10	1,2,3, a,b,c
Sept 4		HOLIDAY – LABOR DAY	HOLIDAY – LABOR DAY	

### WEEK 4

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 5	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Complete SKILL 7 Do SEGMENT 4 Self-Review Questions	1,2,3, a,b,c
6	2, 3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do LAP 2 Exam Review OBJECTIVE 1 Complete SKILL 1	2,3, b,c
7	3	LAP 3 – Hydraulic Pressure & Flow	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Complete SKILL 4	1,2,3, a,b,c
11	3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3	2,3, b,c

## WEEK 5

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 12	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b>	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 4</b> <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b>	1,2,3, a,b,c
13	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow	<b>Review OBJECTIVE 5</b> <b>Review OBJECTIVE 6</b>	2,3, c
14	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b>	<b>Complete SKILL 5</b> <b>Complete ACTIVITY 3</b> <b>Review OBJECTIVE 7</b> <b>Complete ACTIVITY 4</b> <b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 8</b> <b>Review OBJECTIVE 9</b>  <b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 3 Exam</b>	1,2,3, a,b,c
18	<b>4</b>	LAP 4 – Hydraulic Speed Control	<b>Review OBJECTIVE 1</b> <b>Review OBJECTIVE 2</b> <b>Review OBJECTIVE 3</b>	2,3, c

## WEEK 6

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 19	<b>4</b>	LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 1</b> <b>Review OBJECTIVE 4</b> <b>Complete ACTIVITY 1</b> <b>Do SEGMENT 1 Self-Review Questions</b>  <b>Review OBJECTIVE 5</b> <b>Review OBJECTIVE 6</b> <b>Complete ACTIVITY 2</b> <b>Complete SKILL 2</b>	1,2,3, a,b,c
20	<b>4</b>	<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b>  <b>Review OBJECTIVE 7</b> <b>Review OBJECTIVE 8</b>	2,3, b,c
21	<b>4</b>	LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 3</b> <b>Review OBJECTIVE 9</b> <b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 10</b> <b>Complete SKILL 4</b>	1,2,3, a,b,c
25	<b>4</b>	LAP 4 – Hydraulic Speed Control	<b>Review OBJECTIVE 11</b>	2,3, c

## WEEK 7

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 26		LAP 4 – Hydraulic Speed Control <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 5</b> <b>Do SEGMENT 4 Self-Review Questions</b> Review OBJECTIVE 12 <b>Complete SKILL 6</b> Review OBJECTIVE 13 <b>Complete SKILL 7</b>	1,2,3, a,b,c
27		<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 5 Self-Review Questions</b> Review OBJECTIVE 14 <b>Complete SKILL 8</b>	2,3, b,c
28		LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b>	Review OBJECTIVE 15 <b>Complete SKILL 9</b> Review OBJECTIVE 16 <b>Complete SKILL 10</b> <b>Do SEGMENT 6 Self-Review Questions</b> <b>Do LAP 4 Exam</b>	1,2,3, a,b,c
Oct 2	5	LAP 5 – Pressure Control Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, c

## WEEK 8

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 3	5	LAP 5 – Pressure Control Circuits <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	<b>Complete SKILL 1</b> <b>Complete SKILL 2</b> <b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 3 <b>Complete ACTIVITY 1</b>	1,2,3, a,b,c
4	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Complete SKILL 3</b> Review OBJECTIVE 5 <b>Complete SKILL 4</b>	2,3, b,c
5	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	Review OBJECTIVE 6 <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 7 Review OBJECTIVE 8 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,2,3, a,b,c
9	5	<b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits MIDTERM	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 9	2,3, b,c

## WEEK 9

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 10	5	<b>BLACKBOARD</b>	<b>Complete ACTIVITY 3</b> <b>Complete SKILL 7</b> <b>Review OBJECTIVE 10</b> <b>Complete ACTIVITY 4</b>	1,2,3, a,b,c
11	5, 6	<b>BLACKBOARD</b>  LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 5 Exam</b>  Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, b,c
12	6	LAP 6 – Pneumatic Power Systems	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,4,5, a,b,c
16	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Do SEGMENT 1 Self-Review Questions</b>	4, b,c

## WEEK 10

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 17	6	LAP 6 – Pneumatic Power Systems	Review OBJECTIVE 5 <b>Complete ACTIVITY 2</b> Review OBJECTIVE 6 Review OBJECTIVE 7 <b>Complete SKILL 2</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 3</b>	1,4, a,b,c
18	6	<b>BLACKBOARD</b>	<b>Do SEGMENT 2 Self-Review Questions</b>	4, b,c
19	6	LAP 6 – Pneumatic Power Systems	Review OBJECTIVE 10 <b>Complete SKILL 4</b> Review OBJECTIVE 11 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,4, a,b,c
23	6	<b>BLACKBOARD</b> LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 12 Review OBJECTIVE 13	4, b,c

## WEEK 11

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 24	6	LAP 6 – Pneumatic Power Systems <b>65% Point for Full Term Fall Semester</b>	<b>Complete ACTIVITY 3</b> Review OBJECTIVE 14 Review OBJECTIVE 15 <b>Complete SKILL 7</b>	1,4, a,b,c
25		Catch-Up Day	Catch-Up Day	
26	6	LAP 6 – Pneumatic Power Systems	<b>Complete SKILL 8</b>	4, b,c
30	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 6 Exam</b>	4, b,c

## WEEK 12

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 31	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2 Complete ACTIVITY 1 Review OBJECTIVE 3 Review OBJECTIVE 4 Complete SKILL 1	1,4,5, a,b,c
Nov 1	7	<b>BLACKBOARD</b> LAP 7 – Basic Pneumatic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	4,5, b,c
2	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 7 Complete ACTIVITY 2 Review OBJECTIVE 8 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
6	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 9 Complete SKILL 3 Review OBJECTIVE 10 Complete SKILL 4	4,5, b,c

## WEEK 13

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 7	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Do SEGMENT 3 Self-Review Questions Do LAP 7 Exam <b>SKIP SEGMENT 4 of LAP 7</b>	1,4,5,6 ,a,b,c
8	8	LAP 8 – Pneumatic Pressure & Flow	Review OBJECTIVE 1 Complete SKILL 1	4,5, b,c
9	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3 Complete ACTIVITY 1 Review OBJECTIVE 4 Complete ACTIVITY 2 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
13	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Review OBJECTIVE 5 Complete SKILL 4 Review OBJECTIVE 6 Review OBJECTIVE 7 Complete SKILL 5	4,5, b,c

**WEEK 14**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 14	8	LAP 8 – Pneumatic Pressure & Flow <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow	<b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 8 Review OBJECTIVE 9 Review OBJECTIVE 10 <b>Complete SKILL 6</b> Review OBJECTIVE 11 <b>Complete ACTIVITY 4</b>	1,4,5,6 , a,b,c
15	8, 9	<b>BLACKBOARD</b>  LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 8 Exam</b> Review OBJECTIVE 1 Review OBJECTIVE 2	4,5, a,b,c
16	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 1</b> Review OBJECTIVE 3 <b>Complete SKILL 2</b> Review OBJECTIVE 4 Review OBJECTIVE 5 <b>Complete SKILL 3</b>	1,4,5,6 , a,b,c
20	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 6 Review OBJECTIVE 7	4,5, b,c

**WEEK 15**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 21	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 4</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 5</b> Review OBJECTIVE 10 <b>Complete ACTIVITY 1</b>	1,4,5,6 ,a,b,c
22		HOLIDAY - THANKSGIVING	HOLIDAY - THANKSGIVING	
23		HOLIDAY - THANKSGIVING	HOLIDAY - THANKSGIVING	
27	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 11	5, b,c
28	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 6</b> Review OBJECTIVE 12 <b>Complete SKILL 7</b> Review OBJECTIVE 13 <b>Complete SKILL 8</b>	1,4,5,6 , a,b,c
29	9	LAP 9 – Pneumatic Speed Control	Review OBJECTIVE 14	4,5, b,c
30	9	LAP 9 – Pneumatic Speed Control  <b>BLACKBOARD</b>	<b>Complete SKILL 9</b> <b>Complete SKILL 10</b> Review OBJECTIVE 15 <b>Complete SKILL 11</b> <b>Do SEGMENT 3 Self-Review Questions</b> <b>Do LAP 9 Exam</b>	1,4,5,6 , a,b,c



## FINAL EXAM WEEK

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Dec 5	1 – 9	Day 1 of Final Exams	<b>Fluid Power Final Exam</b>	1-6, b,c
6	1 – 9	Day 2 of Final Exams	<b>(Complete by Midnight of Day 2)</b>	1-6, b,c

### Competency Areas:

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### 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.



**ELCR-2150 Fluid Power  
COURSE SYLLABUS  
Traditional  
Fall Semester 2017**

**COURSE INFORMATION**

Credit Hours/Minutes: 2 Hours / 2250 Minutes  
Class Location: RMTTC, Room 827, Vidalia Campus  
Class Meets: Monday and Wednesday (MW), 3:00 PM to 4:15 PM  
CRN: 20028  
Preferred Method of Contact: Text or Email to Instructor

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: William (Chip) Greene  
Office Location: RMTTC Room 822, Vidalia Campus  
Office Hours: Monday through Thursday, 10:30 AM to Noon, 1:00 PM to 3:00 PM  
Email Address: [wgreene@southeasterntech.edu](mailto:wgreene@southeasterntech.edu)  
Phone: (912) 538-3102  
Fax Number: (912) 538-3106

**REQUIRED TEXT**

*Fluid Power Learning Activity Packets*  
by AMATROL, # 11101-BA  
(10 volume set)



**REQUIRED SUPPLIES & SOFTWARE**

Engineering / Scientific Calculator  
For the required videos, see your instructor.

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor GVTC provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

**COURSE DESCRIPTION**

Provides an overview of fluid power operation as applied to industrial electronics. Emphasis is placed on

the interfacing of electronic and fluidic systems. Topics include: safety, fluid dynamics, hydraulics, pneumatics, air logic, and electrical interfacing.

### **PREREQUISITE(S)**

Program Admission

### **MAJOR COURSE COMPETENCIES / COURSE OUTLINE**

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### **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 (TRADITIONAL)**

Students are expected to complete all tests and comprehensive problems by the due dates. A ten point penalty will be assessed for each day a comprehensive problem is late. There are no makeup tests. Tests are made available for several days; therefore, there are no makeup tests. Students who miss a test will be assigned a grade of zero. Students are responsible for policies and procedures included in the STC E-Catalog. All online students must pledge that they have read and understand the STC Online Orientation within the first five days of class. Online students are responsible for checking e-mails and Blackboard announcements DAILY.

### **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.

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

Students are required to take all tests and complete all assignments scheduled during the semester. Failure to take Tests/Exam(s) and complete assignments will result in a grade of zero. There will be no makeup of assignments or EXAMS. If Internet or browser failure occurs, contact instructor immediately. A decision will be made at that time if the exam will be reset. Instructor reserves the right to deduct points from the exam scores for exceeding the scheduled time limit on the exam and/or requiring student to come to campus to take the final exam. Note: If student notifies instructor about exam problems because of technical issues after the due date or on the last day of the semester, the student will NOT be allowed to make-up the exam. No exceptions! Assignments must be turned in on the assigned date and will not be accepted late, a grade of zero will be given. ALL Assignments are due according to the lesson plan.

## 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 third 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
Self-Review Questions	15%
LAP Exams	25%
Laboratory Skills	35%
Final Exam	25%

## GRADING SCALE

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

### **\*\*Disclaimer Statements\*\***

- (1) Instructor reserves the right to change the syllabus and/or lesson plan as necessary.**
- (2) The official copy of the syllabus is located inside the student's online course shell or will be given to them during face to face class time the first day of the semester. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.**

## ELCR-2150 Fluid Power

### Fall Semester 2017 Lesson Plan

#### WEEK 1

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 14	1		<b>[On BLACKBOARD]</b> Read / Review <b>START HERE</b> information POST to appropriate <b>Message Boards</b> Download/Review all material	a,c
15	1	LAP 1 – Hydraulic Power Systems	Review <b>OBJECTIVE 1</b> Activity 1 – <b>VIDEO NOT AVAILABLE</b> Review <b>OBJECTIVE 2</b> <b>Complete ACTIVITY 2</b> Review <b>OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,2,3, a,b,c
16	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 1 Self-Review Questions</b> Review <b>OBJECTIVE 4</b>	2,3, b,c
17	1	LAP 1 – Hydraulic Power Systems	<b>Complete ACTIVITY 3</b> <b>Complete ACTIVITY 4</b> <b>Complete SKILL 2</b> <b>Complete SKILL 3</b>	1,2,3, a,b,c

#### WEEK 2

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 21	1	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 2 Self-Review Questions</b> Review <b>OBJECTIVE 5</b> Review <b>OBJECTIVE 6</b>	2,3, b,c
22	1	LAP 1 – Hydraulic Power Systems	<b>Complete SKILL 4</b> Review <b>OBJECTIVE 7</b> <b>Complete SKILL 5</b> Review <b>OBJECTIVE 8</b>	1,2,3, a,b,c
23	2	<b>BLACKBOARD</b> LAP 1 – Hydraulic Power Systems	Do <b>SEGMENT 3 Self-Review Questions</b> Review <b>OBJECTIVE 9</b> Review <b>OBJECTIVE 10</b>	2,3, b,c
24	2	LAP 1 – Hydraulic Power Systems  <b>BLACKBOARD</b>	<b>Complete ACTIVITY 5</b> Review <b>OBJECTIVE 11</b> Review <b>OBJECTIVE 12</b> <b>Complete ACTIVITY 6</b> <b>Complete SKILL 6</b> <b>Complete SKILL 7</b> Do <b>SEGMENT 4 Self-Review Questions</b> Do <b>LAP 1 Exam</b>	1,2,3, a,b,c

### WEEK 3

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 28	2	LAP 2 – Basic Hydraulic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	
29	2	LAP 2 – Basic Hydraulic Circuits	Complete SKILL 1 <b>ACTIVITY 1 – DO NOT DO THIS ONE</b> Review OBJECTIVE 3 Complete ACTIVITY 2 Review OBJECTIVE 4	1,2,3, a,b,c
30	2	<b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	2,3, b,c
31	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b> LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete ACTIVITY 3 Complete SKILL 2 Complete SKILL 3 Do SEGMENT 2 Self-Review Questions Review OBJECTIVE 7 Review OBJECTIVE 8 Complete SKILL 4 Review OBJECTIVE 9 Do SEGMENT 3 Self-Review Questions Review OBJECTIVE 10	1,2,3, a,b,c
Sept 4		HOLIDAY – LABOR DAY	HOLIDAY – LABOR DAY	

### WEEK 4

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 5	2	LAP 2 – Basic Hydraulic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Complete SKILL 7 Do SEGMENT 4 Self-Review Questions	1,2,3, a,b,c
6	2, 3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do LAP 2 Exam Review OBJECTIVE 1 Complete SKILL 1	2,3, b,c
7	3	LAP 3 – Hydraulic Pressure & Flow	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Complete SKILL 4	1,2,3, a,b,c
11	3	<b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3	2,3, b,c



## WEEK 5

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 12	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b>	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 4</b> <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b>	1,2,3, a,b,c
13	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow	<b>Review OBJECTIVE 5</b> <b>Review OBJECTIVE 6</b>	2,3, c
14	<b>3</b>	LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b> LAP 3 – Hydraulic Pressure & Flow  <b>BLACKBOARD</b>	<b>Complete SKILL 5</b> <b>Complete ACTIVITY 3</b> <b>Review OBJECTIVE 7</b> <b>Complete ACTIVITY 4</b> <b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 8</b> <b>Review OBJECTIVE 9</b>  <b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 3 Exam</b>	1,2,3, a,b,c
18	<b>4</b>	LAP 4 – Hydraulic Speed Control	<b>Review OBJECTIVE 1</b> <b>Review OBJECTIVE 2</b> <b>Review OBJECTIVE 3</b>	2,3, c

## WEEK 6

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 19	<b>4</b>	LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 1</b> <b>Review OBJECTIVE 4</b> <b>Complete ACTIVITY 1</b> <b>Do SEGMENT 1 Self-Review Questions</b>  <b>Review OBJECTIVE 5</b> <b>Review OBJECTIVE 6</b> <b>Complete ACTIVITY 2</b> <b>Complete SKILL 2</b>	1,2,3, a,b,c
20	<b>4</b>	<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b>  <b>Review OBJECTIVE 7</b> <b>Review OBJECTIVE 8</b>	2,3, b,c
21	<b>4</b>	LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 3</b> <b>Review OBJECTIVE 9</b> <b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b>  <b>Review OBJECTIVE 10</b> <b>Complete SKILL 4</b>	1,2,3, a,b,c
25	<b>4</b>	LAP 4 – Hydraulic Speed Control	<b>Review OBJECTIVE 11</b>	2,3, c

**WEEK 7**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 26		LAP 4 – Hydraulic Speed Control <b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Complete SKILL 5</b> <b>Do SEGMENT 4 Self-Review Questions</b> Review OBJECTIVE 12 <b>Complete SKILL 6</b> Review OBJECTIVE 13 <b>Complete SKILL 7</b>	1,2,3, a,b,c
27		<b>BLACKBOARD</b> LAP 4 – Hydraulic Speed Control	<b>Do SEGMENT 5 Self-Review Questions</b> Review OBJECTIVE 14 <b>Complete SKILL 8</b>	2,3, b,c
28		LAP 4 – Hydraulic Speed Control  <b>BLACKBOARD</b>	Review OBJECTIVE 15 <b>Complete SKILL 9</b> Review OBJECTIVE 16 <b>Complete SKILL 10</b> <b>Do SEGMENT 6 Self-Review Questions</b> <b>Do LAP 4 Exam</b>	1,2,3, a,b,c
Oct 2	5	LAP 5 – Pressure Control Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, c

**WEEK 8**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 3	5	LAP 5 – Pressure Control Circuits <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	<b>Complete SKILL 1</b> <b>Complete SKILL 2</b> <b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 3 <b>Complete ACTIVITY 1</b>	1,2,3, a,b,c
4	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Complete SKILL 3</b> Review OBJECTIVE 5 <b>Complete SKILL 4</b>	2,3, b,c
5	5	LAP 5 – Pressure Control Circuits  <b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits	Review OBJECTIVE 6 <b>Complete ACTIVITY 2</b> <b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 7 Review OBJECTIVE 8 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,2,3, a,b,c
9	5	<b>BLACKBOARD</b> LAP 5 – Pressure Control Circuits MIDTERM	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 9	2,3, b,c

## WEEK 9

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 10	5	<b>BLACKBOARD</b>	<b>Complete ACTIVITY 3</b> <b>Complete SKILL 7</b> <b>Review OBJECTIVE 10</b> <b>Complete ACTIVITY 4</b>	1,2,3, a,b,c
11	5, 6	<b>BLACKBOARD</b>  LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 5 Exam</b>  Review OBJECTIVE 1 Review OBJECTIVE 2	2,3, b,c
12	6	LAP 6 – Pneumatic Power Systems	<b>Complete ACTIVITY 1</b> <b>Review OBJECTIVE 3</b> <b>Complete SKILL 1</b>	1,4,5, a,b,c
16	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	Review OBJECTIVE 4 <b>Do SEGMENT 1 Self-Review Questions</b>	4, b,c

## WEEK 10

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 17	6	LAP 6 – Pneumatic Power Systems	Review OBJECTIVE 5 <b>Complete ACTIVITY 2</b> Review OBJECTIVE 6 Review OBJECTIVE 7 <b>Complete SKILL 2</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 3</b>	1,4, a,b,c
18	6	<b>BLACKBOARD</b>	<b>Do SEGMENT 2 Self-Review Questions</b>	4, b,c
19	6	LAP 6 – Pneumatic Power Systems	Review OBJECTIVE 10 <b>Complete SKILL 4</b> Review OBJECTIVE 11 <b>Complete SKILL 5</b> <b>Complete SKILL 6</b>	1,4, a,b,c
23	6	<b>BLACKBOARD</b> LAP 6 – Pneumatic Power Systems	<b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 12 Review OBJECTIVE 13	4, b,c

## WEEK 11

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 24	6	LAP 6 – Pneumatic Power Systems <b>65% Point for Full Term Fall Semester</b>	<b>Complete ACTIVITY 3</b> Review OBJECTIVE 14 Review OBJECTIVE 15 <b>Complete SKILL 7</b>	1,4, a,b,c
25		Catch-Up Day	Catch-Up Day	
26	6	LAP 6 – Pneumatic Power Systems	<b>Complete SKILL 8</b>	4, b,c
30	6	LAP 6 – Pneumatic Power Systems <b>BLACKBOARD</b>	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 6 Exam</b>	4, b,c

## WEEK 12

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 31	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 1 Review OBJECTIVE 2 Complete ACTIVITY 1 Review OBJECTIVE 3 Review OBJECTIVE 4 Complete SKILL 1	1,4,5, a,b,c
Nov 1	7	<b>BLACKBOARD</b> LAP 7 – Basic Pneumatic Circuits	Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 5 Review OBJECTIVE 6	4,5, b,c
2	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 7 Complete ACTIVITY 2 Review OBJECTIVE 8 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
6	7	LAP 7 – Basic Pneumatic Circuits	Review OBJECTIVE 9 Complete SKILL 3 Review OBJECTIVE 10 Complete SKILL 4	4,5, b,c

## WEEK 13

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 7	7	LAP 7 – Basic Pneumatic Circuits  <b>BLACKBOARD</b>	Complete SKILL 5 Complete SKILL 6 Do SEGMENT 3 Self-Review Questions Do LAP 7 Exam <b>SKIP SEGMENT 4 of LAP 7</b>	1,4,5,6 ,a,b,c
8	8	LAP 8 – Pneumatic Pressure & Flow	Review OBJECTIVE 1 Complete SKILL 1	4,5, b,c
9	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Complete SKILL 2 Review OBJECTIVE 2 Complete SKILL 3 Do SEGMENT 1 Self-Review Questions Review OBJECTIVE 3 Complete ACTIVITY 1 Review OBJECTIVE 4 Complete ACTIVITY 2 Do SEGMENT 2 Self-Review Questions	1,4,5,6 ,a,b,c
13	8	LAP 8 – Pneumatic Pressure & Flow  <b>BLACKBOARD</b>	Review OBJECTIVE 5 Complete SKILL 4 Review OBJECTIVE 6 Review OBJECTIVE 7 Complete SKILL 5	4,5, b,c

**WEEK 14**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 14	8	LAP 8 – Pneumatic Pressure & Flow <b>BLACKBOARD</b> LAP 8 – Pneumatic Pressure & Flow	<b>Complete ACTIVITY 3</b> <b>Do SEGMENT 3 Self-Review Questions</b> Review OBJECTIVE 8 Review OBJECTIVE 9 Review OBJECTIVE 10 <b>Complete SKILL 6</b> Review OBJECTIVE 11 <b>Complete ACTIVITY 4</b>	1,4,5,6 , a,b,c
15	8, 9	<b>BLACKBOARD</b>  LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 4 Self-Review Questions</b> <b>Do LAP 8 Exam</b> Review OBJECTIVE 1 Review OBJECTIVE 2	4,5, a,b,c
16	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 1</b> Review OBJECTIVE 3 <b>Complete SKILL 2</b> Review OBJECTIVE 4 Review OBJECTIVE 5 <b>Complete SKILL 3</b>	1,4,5,6 , a,b,c
20	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 1 Self-Review Questions</b> Review OBJECTIVE 6 Review OBJECTIVE 7	4,5, b,c

**WEEK 15**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 21	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 4</b> Review OBJECTIVE 8 Review OBJECTIVE 9 <b>Complete SKILL 5</b> Review OBJECTIVE 10 <b>Complete ACTIVITY 1</b>	1,4,5,6 ,a,b,c
22		<b>HOLIDAY - THANKSGIVING</b>	<b>HOLIDAY - THANKSGIVING</b>	
23		<b>HOLIDAY - THANKSGIVING</b>	<b>HOLIDAY - THANKSGIVING</b>	
27	9	<b>BLACKBOARD</b> LAP 9 – Pneumatic Speed Control	<b>Do SEGMENT 2 Self-Review Questions</b> Review OBJECTIVE 11	5, b,c
28	9	LAP 9 – Pneumatic Speed Control	<b>Complete SKILL 6</b> Review OBJECTIVE 12 <b>Complete SKILL 7</b> Review OBJECTIVE 13 <b>Complete SKILL 8</b>	1,4,5,6 , a,b,c
29	9	LAP 9 – Pneumatic Speed Control	Review OBJECTIVE 14	4,5, b,c
30	9	LAP 9 – Pneumatic Speed Control  <b>BLACKBOARD</b>	<b>Complete SKILL 9</b> <b>Complete SKILL 10</b> Review OBJECTIVE 15 <b>Complete SKILL 11</b> <b>Do SEGMENT 3 Self-Review Questions</b> <b>Do LAP 9 Exam</b>	1,4,5,6 , a,b,c

## FINAL EXAM WEEK

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Dec 5	1 – 9	Day 1 of Final Exams	<b>Fluid Power Final Exam</b>	1-6, b,c
6	1 – 9	Day 2 of Final Exams	<b>(Complete by Midnight of Day 2)</b>	1-6, b,c

### Competency Areas:

1. Safety
2. Fluid Dynamics
3. Hydraulic Pressure and Flow
4. Pneumatics
5. Air Logic
6. Electrical Interfacing

### 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.



**ELCR-2150 Fluid Power  
COURSE SYLLABUS  
Traditional  
Fall Semester 2017**

**COURSE INFORMATION**

Credit Hours/Minutes: 2 Hours / 2250 Minutes  
Class Location: RMTTC, Room 827, Vidalia Campus  
Class Meets: Monday and Wednesday (MW), 3:00 PM to 4:15 PM  
CRN: 20028  
Preferred Method of Contact: Text or Email to Instructor

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: William (Chip) Greene  
Office Location: RMTTC Room 822, Vidalia Campus  
Office Hours: Monday through Thursday, 10:30 AM to Noon, 1:00 PM to 3:00 PM  
Email Address: [wgreene@southeasterntech.edu](mailto:wgreene@southeasterntech.edu)  
Phone: (912) 538-3102  
Fax Number: (912) 538-3106

**REQUIRED TEXT**

*Fluid Power Learning Activity Packets*  
by AMATROL, # 11101-BA  
(10 volume set)



**REQUIRED SUPPLIES & SOFTWARE**

Engineering / Scientific Calculator  
For the required videos, see your instructor.

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor GVTC provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

**COURSE DESCRIPTION**

Provides an overview of fluid power operation as applied to industrial electronics. Emphasis is placed on

ERROR: undefined  
OFFENDING COMMAND: f'~

STACK: