

Basic Fluid Power

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Summer 1, 2011

CLARENDON COLLEGE Division of Business and Technology

Course Name: ELMT 1305 Basic Fluid Power

Credit Hours: 3

Instructor: *John Havens*
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Classroom Location: Pampa Center wind room VO1

Office Hours: Monday – Thursday 1:30 pm - 4:30 pm

Friday 8:00am - 12:00 pm

Course Description:

Basic fluid power course covering pneumatic and hydraulic systems, fluid power symbols, operating theory, components, and basic electrical and manual controls.

I. Course Goal

To provide students with a comprehensive coverage of the fundamental principles of fluid power systems commonly used throughout industry, circuit analysis, problem solving and applications.

II. Learning Objective

Upon completion of this course, the student will be able to:

- Identify fluid power symbols

- demonstrate knowledge of basic fluid power theory
- demonstrate knowledge of component operation
- generate basic fluid power circuits
- demonstrate fluid power circuits using electrical and manual controls

III. Tentative Course Content and Activities:

Textbook(s) (Required):

1. Fluid Power, Hydraulics and Pneumatics. By James R. Daines, The Goodheart-Willcox Company, Inc., 2009
ISBN 978-1-60525-081-6

Final exam on date/time as posted on Final Exam Schedule on Clarendon College website

IV. Course Requirements

Course requirements include problems and exercises, quizzes, midterm, and final examination derived from lectures and labs. Assignments will be due one week from the day they are assigned unless special instruction is given by the instructor.

Methods and components of evaluation and grading are listed in the following:

Problems and exercises:	30%
Quizzes	25%
Final:	25%
Attendance	20%

The final semester grades will be determined based upon the accumulated points you earn from the above categories:

90% and above = A
80 - 89% = B
70 - 79% = C
60 - 69% = D
Below 60% = F

Other Requirements:

- **Regular class attendance is required!!!! Students are only allowed to miss 3 class periods!**
- No late homework will be accepted
- Personal tools and supplies include: a scientific calculator, pencils, paper (recommend graphing or engineering paper), etc...

A student's final grade will be made available through Student Portal accessible through the Clarendon College website at www.clarendoncollege.edu .

Classroom Policies:

Classroom Conduct

Failure to comply with lawful direction of a classroom instructor is a disruption for all students enrolled in the class. Cheating violations include, but are not limited to: (1) obtaining an examination , classroom activity, or laboratory exercise by stealing or collusion; (2) discovering the content of an examination , classroom activity, laboratory exercise, or homework assignment before it is given; (3) using an unauthorized source of information during an examination , classroom activity, laboratory exercise, or homework assignment ; (4) entering an office or building to obtain unfair advantage; (5) taking an examination for another person; (6) completing a classroom activity, laboratory exercise, homework assignment, or research paper for another person; (7) altering grade records; (8) using any unauthorized form of electronic communication device during an examination, classroom activity, or laboratory exercise; (9) Plagiarism. Plagiarism is the using, stating, offering, or reporting as one's own, an idea, expression, or production of another person without proper credit.

Disciplinary actions for cheating in a course are at the discretion of the individual instructor. The instructor of that course will file a report with the Dean of Students when a student is caught cheating in the course, whether it be a workforce or academic course. The report shall include the course, instructor, student's name, and the type of cheating involved.

Students who are reported as cheating to the Dean of Students more than once shall be disciplined by the Dean. The Dean will notify all involved parties within fourteen days of any action taken.

American with Disabilities Act Statement:

Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, notify the Office of Student Services (806-874-3571 or 800-687- 9737). We will work with you to make whatever accommodations we need to make.

Dropping a Course:

A student who is enrolled in a developmental course for TSI purposes may not drop his/her only developmental course unless the student completely withdraws from the college. A student may drop any other course with a grade of "W" any time after the census date for the semester and on or before the end of the 12th week of a long semester, or on or before the last day to drop a class of a term as designated in the college calendar. The request for permission to drop a course is initiated by the student by procuring a drop form from the Office of Student Services. (Refer to other policies concerning this issue in the current college catalog online.)

Withdrawal from College:

When a student finds it necessary to withdraw from school before the end of the semester, he or she should obtain a withdrawal form from the Office of Student Services. Students may also withdraw from the college by sending a written request for such action to the Registrar's Office. The request must include the student's signature, the student's current address, social security number and course information details. Students who withdraw after the census date for the semester and on or before the end of the 12th week of a long semester, or on or before the last day to drop a class of a term as designated in the college calendar will be assigned a grade of "W."

Classroom requirements:

The operation of cell phones, MP3 type devices, personal computers, or any other such devices is strictly prohibited during class sessions. The result of such use will result in a zero grade for the event (quiz/test) for that day including final exam day. Cheating, plagiarism or other dishonest acts shall be dealt with to the extent of dismissal from the class permanently on a case by case basis. Under no circumstance will an individual be exonerated after a second incidence, but will be immediately dropped.

Any missed quizzes or exams must be taken within 1 week of the date missed. It is the student's full responsibility to make arrangements to make up a quiz or exam at a time agreeable to the instructor. The Final exam will be taken on the prescribed day or arranged day prior to the final exam. No exceptions.