

Three Rivers College

THE COMMUNITY COLLEGE OF SOUTHEAST MISSOURI

Master Syllabus MAFT 255 Hydraulics and Pneumatics

3 Credit Hours

3 Lecture Hours

Semester (ex. Fall 20XX)

Start Date: End Date: Last Day to Drop: Last Day to Withdraw:

Prerequisite:

Instructor: *(To be filled out by Class Instructor)*

Instructor Credentials and Title:

Office Location:

Phone:

Email:

Office Hours:

Textbook(s) and Materials:

Title: Fluid Power with Applications. Author: Espisito, Anthony

Publisher: Prentice Hall Edition: Sixth Year: 2003

TI-30 Calculator, pencils, and paper are required for problem solving and note taking.

Course Description

Catalog Description: This introductory course defines the core concepts of fluid power systems. Fluid power circuit symbols and identification of components along with their function will be addressed in the course. Development of skills necessary for interpreting fluid power circuits and analyzing circuit function will be a focus for student learning.

Student Learning Outcomes: Define core concepts of fluid power. Recognize fluid power symbols in circuit drawings. Describe component function. Interpret fluid power circuits. Analyze circuit function using basic troubleshooting techniques.

Course Purpose (or Course Rationale): This course helps to prepare students by providing background knowledge and job related skills necessary for success in the Manufacturing and Industrial technology sectors. This course presents theory associated with the pneumatic and fluid power systems. These theories apply to the current technologies associated with the manufacturing and industrial processes in use today. This course helps to prepare students by providing background knowledge and job related skills necessary for success in the Manufacturing and Industrial technology sectors.

Course Evaluation Policy

Grading Scale: Based on 10% ranking

Semester Average

Grade

90% -100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
<60%	F

Assignments and Activities

Homework:	50 points.
Tests (2)	100 points each
Circuit Connection/Evaluation	100 points
Participation/Att. *	50 points
Final exam	100 points.

Total Points 500 points

Attendance: It is expected that students will maintain the assigned schedule for assignments & quizzes.

Missed Tests/Quizzes: All tests/quizzes must be taken on the assigned schedule.

Late Work: Once student H/W is graded & returned, late H/W will not be accepted.

Extra Credit: Extra credit assignments are at the discretion of the instructor.

Course Procedures:

All homework assignments, assigned labs, and test must be completed on the assigned date unless otherwise approved prior to due date. It is expected that all students will participate in class in courteous and professional manner to help maintain a true learning environment in the classroom. In a lecture environment cell phones must be placed in a silent mode while in the classroom. During classroom testing the cell phones must be turned off unless special permission is given by instructor prior to the test.

Electronic Devices within the Learning Environment [ISE 6410]

Electronic devices including, but not limited to, laptop/netbook computers, cellular devices, e-readers, and MP3 players will be turned off as appropriate within the learning environment. Exceptions include the use of such devices for medical emergencies, or contacts which must be maintained due to work requirements. In such cases the student must advise the instructor, and the device must be in “silent mode.” The instructor may make adjustments to this policy for specific usage in their unique learning environments. The usage of such electronic devices in relation to approved ADA accommodations is exempt from this regulation.

Disciplinary actions related to the violation of this regulation may include but are not limited to: a verbal warning to the student(s); the student(s) being asked to leave the learning environment; reductions in the grade for an assignments or examinations.

Student Code of Conduct [SR 2610]

Three Rivers College created for its students a Student Code of Conduct to clearly communicate to students what is expected of them. All students should go to <http://www.trcc.edu/forms/policiesregs/SR2610.pdf> to review the student code of conduct regulation and the list of expectations for students.

Harassment (Title IX) [GAR 1240]

It is the policy of Three Rivers College and its Board of Trustees that each employee and student be allowed to work and attend the college in an environment free from any form of improper discrimination. All students should go to <http://www.trcc.edu/forms/policiesregs/GAR1240.pdf> to review the student harassment regulation.

Academic Assistance:

Academic Resource Commons (ARC): Located in ARC with a library, computer resource center with printing, and web access. Visit <http://www.trcc.edu/arc/> for more information, call 573-840-9654, email library@trcc.edu or send questions via text to 573-298-6105.

Tutoring and Learning Center (TLC): Located on the second floor of the ARC. Tutoring help is available for math, English, and some science classes. Computers with internet access are available. Call 573-840-9638 or email tlc@trcc.edu with general questions. Email writing@trcc.edu with questions specific to writing and writing assistance.

ACHIEVE Program: Located on the second floor of the ARC. Provides free services to eligible students. Find information about services and eligibility at <http://www.trcc.edu/studentsuccess/achieve.php>.

Technical Difficulties: If you have difficulties accessing myTRCC, student email, or Blackboard, call 573-840-9605 or visit Login Assistance for more information (<http://www.trcc.edu/loginhelp/>). For all other non-login Blackboard issues, email blackboard@trcc.edu.

Students with Disabilities: Three Rivers College complies with the Americans with Disabilities Act. If you need accommodations or academic adjustments due to a documented disability, please call the Office of Disabilities Accommodations at 573-840-9608 for assistance.

Tentative Course Schedule of Weekly Activities: A planned outline

Week:	Activity
1	Introduction to Hydraulics, Symbols, Chapter 1
2	Chapter 2 & 3
3	Chapter 4
4	Chapter 5
5	Chapter 6 Review and Test 1
6	Chapter 7
7	Chapter 8
8	Chapter 9
9	Chapter 10
10	Chapter 11 Review and Test 2
11	Chapter 12 Tentative date for beginning Lab Circuits
12	Chapter 13
13	Chapter 14
14	Chapter 15
15	Trouble shooting and Miscellaneous Topics
16	Final

The instructor reserves the right to modify the assignments and other course criteria to create the best learning environment possible.

This master syllabus has been approved by the Three Rivers College Faculty. All full-time and part-time faculty are required to follow this syllabus. Therefore, the course description, student learning outcomes, and the course rationale are not to be altered in any way. Participation in the assessment of student learning outcomes is required by all faculty.