SYLLABUS PART II

EDISON COMMUNITY COLLEGE

EGR 225S Hydraulics &

Pneumatics

3 CREDIT HOURS

Section/Term:	EGR-225S-002FS
Class Meeting Time:	Th 5:30pm – 9:10pm
Location:	Room 433
Required items:	Introduction to Fluid Power by: Johnson ISBN 9780766823655
Faculty:	Professor David Barth Masters: Electrical Engineering Michigan Technological University Feb. 1995
E-mail:	dbarth@edisonohio.edu
Faculty Phone:	937-778-7938
Faculty Office Hours:	Piqua Campus Room 430 M 9-10 online & 1-3 T 4:30 – 5:30 online W 9-10 online Th 5-5:30 Darke County Greenville H S Manufacturing Lab W 5 – 5:30 p.m.
Faculty Contact:	If you have questions or concerns, please contact me via email with the course name and number in the subject line (EGR 225S 002FS) through your Edison State email. You are welcome to set up an appointment to meet virtually via Teams or Zoom or stop by my office.

Class Policies

Netiquette:
We will be communicating a lot with each other. You will need to be respectful of the instructor and each other. Your classmates' ideas and beliefs may differ from your own, be polite! When in doubt, you can agree to disagree. You will be expected to communicate with your classmates and your instructor using appropriate language and style, which includes written/typed communication. Remember: the way you communicate can reflect the level of respect you have the people with whom you communicate. You will want to practice good e-mail etiquette when typing questions/responses to the instructor and classmates, such as avoiding using all caps when typing or using an accusatory tone.

Communication Policy:
E-mails sent to me by 4:00 p.m. Monday-Friday with course name and section number (EGR 225S 002FS in the subject line from your Edison e-mail will be answered within 48 hours unless the school is closed (breaks/holidays). **All assignments must be submitted in class.**

Late Work:
All work should be submitted on time. Late work may be accepted due to extenuating circumstances. Contact the instructor.

Academic Integrity:

Edison Community College expects students to submit original work for each assignment. The Student Handbook https://www.edisonohio.edu/digipub/StudentHandbook/index.html , pages 28-29 clearly defines academic dishonesty and how Edison handles cases of academic dishonesty. Using peer support and tutoring services is not considered academic dishonesty, as long as the work is original and in your own voice, meaning you didn't submit work you did previously or "borrow" words/ideas without crediting the source

Testing Your Faith Act Policy

Edison State Community College is committed to providing an environment respectful of students ' beliefs. Students are permitted to be absent for up to 3 days each semester based on their faith, religion, or spiritual belief system with no academic penalty. Students must complete the Testing Your Faith Act Accommodations Form, https://www.edisonohio.edu/services-support/registration-records, located in "Forms " and provide a copy to their individual faculty within 14 days from the start of the course. The entire policy can be found in the student handbook at https://www.edisonohio.edu/services-support/student-resources.

Technical Support

For Blackboard Assignment issues, the Instructor should be the first point of contact
For Log-in or other technology issues:
There are several steps you can follow if you have issues logging in to Blackboard or Office.
During business hours:

- Password reset: Log onto office.com with your Edison email and follow the "forgot password" prompts.
- Reach out for help during regular business hours (9-5 Monday-Thursday, 9-4 Friday)
  - email to support@edisonohio.edu
  - call 937-778-8600 and ask for IT Help Desk

After hours:

- Password reset: Log onto office.com with your Edison email and follow the "forgot password" prompts
- Go to www.edisonohio.edu into the Resources tab and click "IT Help Desk" then click "Chat".
- Call 937-778-7957 and talk to the off-campus Blackboard company to get help.

Grading approximmately

20% Homework
20% Labs
20% Quizzes
20% Hydraulics exam (in class)
20% Pneumatics exam (in class)

Grading Scale*

A = 90 – 100%
B = 80 – 89%
C = 70 – 79%
D = 60 – 69%
F = 59% and Below

12 homework assignments 116 points total

5 quizzes 20 points each

13 labs 8 points each

Hydraulics exam 100 points

Pneumatics exam 100 points

Class Schedule

***Homework is due at the beginning of class on Thursdays**

Week 1 8/27

Lecture Ch.1 and 2 Introduction to Hydraulics & Principles of Power Hydraulics
Assignments Due 8/27 Lab 1

Week 2 9/3

Assignments Due 9/3 – Homework 1 15 pts
Lecture Ch.2 Principles of Power Hydraulics
Assignment Due 9/3 Lab 2

Week 3 9/10

Assignments Due 9/10 Homework 2 6 pts Quiz 1
Lecture Ch 3 Hydraulic Pumps
Assignments Due 9/10 Lab 3

Week 4 9/17

Assignments Due 9/17 – Homework 3 8pts
Lecture Ch 4 Hydraulic Cylinders
Assignment Due 9/17 Lab 4

Week 5 9/24

Assignments Due 9/24 Homework 4 8 pts Quiz 2
Lecture Ch 5 Hydraulic Motors
Assignments Due 9/24 Lab 5

Week 6 10/1

Assignments Due 10/1 – Homework 5 8pts
Lecture Ch 6 Hydraulic Directional Control
Assignment Due 10/1 Lab 6

Week 7 10/8

Assignments Due 10/8 Homework 6 13 pts Quiz 3
Lecture Ch 7 Hydraulic Pressure Control
Assignments Due 10/8 Lab 7

Week 8 10/15

Assignments Due 10/15 Homework 7 10 pts
Lecture Ch 8 Hydraulic Flow Control
Assignments Due 10/15 Lab 8

Week 9 10/22

Assignments Due 10/22 Homework 8 9 pts Quiz 4
Lecture Ch 9 Ancillary Hydraulic Components
Assignments Due Lab 9

Week 10 10/29

Assignments Due 10/29 Homework 9 11 pts
Lecture Review for Hydraulics Exam
Assignments Due 10/29 Hydraulics Exam in Class

Week 11 11/5

Lecture Ch 10 Basic Principles of Pneumatics
Due 11/5 Lab 10

Week 12 11/12

Assignments Due 11/12 Homework 10 14 pts Quiz 5
Lecture Ch 11 Pneumatic Power Supply
Due 11/12 Lab 11

Week 13 11/19

Assignments Due 11/19 Homework 11 8 pts
Lecture Ch 12 Pneumatic Components
Due 11/19 Lab 12

Week 14 NO CLASS 11/26 Thanksgiving

Week 15 12/3

Assignments Due 12/1 Homework 12 6 pts
Lecture Ch 13 Electronic Control of Fluid Power
Due 12/3 Ping Pong ball chucker Lab
Review for Final Exam

Week 16 12/8
Assignment Due Final Exam in Class