

Concentration: Fluid Power and Motion Control

To fulfill the requirements for the Fluid Power and Motion Control concentration, students must complete at least nine credit hours from the courses listed below (Group A or B), at least three of which must be from Group A.

Group A focuses on fluid power theories and applications, while Group B includes courses essential for the design, modeling, optimization, and control of fluid power systems.

Group A – Fluid Power Theories and Applications

ABE 43500	Hydraulic Control Systems for Mobile Equipment
ABE 53500 / ME 53500	Design and Modeling of Fluid Power System
ME 55600	Lubrication, Friction, & Wear

Group B – Supporting Topics

ABE 53100	Instrumentation and Data Acquisition
ABE 54500	Design of Off-Highway Vehicles
ECE 51000	Hybrid Electric Vehicles
ECE 61000	Electromagnetic and Electromechanical Component Design
ME 57500	Theory and Design of Control Systems
ME 58500	Instrumentation for Engineering Measurements
ME 61400	Computational Fluid Dynamics