



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Primary and Secondary Pumping

Course Number: PIP240

Required Materials

Textbook(s): None

Required Readings: Custom - Primary Secondary Piping Made Easy

Additional Materials: None

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
1	Introduction to Hydronic Systems
2	Pumping Fundamentals
3	Primary Pumping Systems
4	Secondary Pumping Systems
5	Hydraulic Separation Concepts
6	Piping Designs and Layouts
7	Pump Curves and Selection
8	Controls in Primary/Secondary Systems
9	Heat Exchangers and Load Interfaces
10	Balancing Hydronic Systems
11	Common Design Configurations
12	Troubleshooting Pumping Systems
13	Hands-On Lab/Piping Project (Start)
14	Hands-On/Piping Project (Continued)
15	Final Project Work and Review
16	Final Exam and Course Wrap-Up