



# STARK STATE COLLEGE

## GENERAL SYLLABUS

### Course Information

**Course Name:** Switchgear, Transformers and Controls  
**Course Number:** EST129

### Required Materials

**Textbook(s):** None  
**Required Readings:** None  
**Additional Materials:** Scientific calculator

### 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	Quiz 1 Identify functions and usages of switchgears, transformers and controls. Faraday's Law Virtual Lab
2	Quiz 2 Magnetic Force assignment
3	Quiz Three Three Phase Transformer Lab
4	Exam 1 Power Flow Lab Assignment
5	Exam 1 and Lab 1 Discussion Quiz Four Hotline Maintenance and PPE Assignment
6	Quiz 5 Current Limiting Fuse Lab assignment
7	Quiz 6 Transformer Insulation Assignment
8	Exam 2 Mid-Term Virtual Labs Folder Review
9	Exam 2 and Lab Discussion Quiz 7 Complex DC Circuit Lab

<b>Week</b>	<b>Chapter/Topic/Lab</b>
10	Quiz 8 Wind Farm Assignment
11	Quiz 9 Alternating Current Lab
12	Exam 3 Switchgear Bus Forces Lab Assignment
13	Exam 3 and Lab Discussion Quiz 10 Logic Gate Assignment Truth Table Assignment
14	Quiz 11 PLC Simulator Lab Assignment
15	Discussion Board Quiz 12
16	Exam 4