

## TEAM 1640 - Electrical Systems II (1 Credits)

### Course Description

In this course, students will study and master the wiring and use of real-world components such as a 3-phase motor, pushbuttons, switches, valves, and the use of a 24VDC control power supply. Students will use these components to study electrical control system wiring, pneumatic control circuit wiring, conductors, disconnects, and overcurrent protection and related applications. The combination of industrial components, and comprehensive curriculum will reinforce electrical wiring concepts and skills to build up the students' confidence and competence.

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### Course Objectives

- Install control wiring in an electrical panel to control and manipulate commonly used components and motors.
  - Understand, identify, and calculate the proper wire size, materials, and insulation required for different circuits, applications, and panel requirements.
  - Install, wire, and monitor different types of control components and sensors. Including but not limited to contacts, momentary push buttons, limit switches solenoids, and pressure switches.
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### Course Outline

- Intro to Electrical Control Wiring, Print Reading, Tools, and Components
  - Electrical Panel Wiring and Systems Diagnostics
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### Classroom Hours

Mo, Tu, W, Th  
8:00 AM - 11:00 AM  
3:00 PM - 6:00 PM

Friday  
8:00 AM - 11:00 AM  
1:00 PM - 4:00 PM

For a full list of course hours visit: [Course Schedule](#)

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### Instructor Contact Information

Cody Post — [cpost@stech.edu](mailto:cpost@stech.edu)

Office Hours: By appointment

Email is the preferred method of communication; you will receive a response within 24 hours during regular business hours.

## Canvas Information

Canvas is the where course content, grades, and communication will reside for this course.

- [stech.instructure.com](http://stech.instructure.com)
  - For Canvas, Passwords, or any other computer-related technical support contact Student Services.
  - Regular Hours and Weekdays (435) 586 - 2899
  - After Hours & Weekends (435) 865 - 3929 (Leave a message if no response)
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## Course Policies

Students must achieve at least 80% to pass graded work. Incomplete assignments must be redone to meet the required standards. Guidelines, rules, and expectations for completing assignments are provided in each course.

In alignment with industry standards, students shall not be permitted to use cell phones in the lab area, except when researching information pertinent to coursework.

Safety Glasses must be worn in the lab.

No Loose Clothing when operating Equipment, No Shorts, flip flops, or sandals.

Possession or use of controlled substances or their imitations in the lab, which can impair judgment or emergency response, is a severe safety violation. This disregard for safety may result in immediate withdrawal from the program. No one may work in the lab with any substance, legal or otherwise, that may impair them in any way.

High School Power School Grades: Quarter student grades will be determined by student progress percentage. Faculty will use the higher percentage of either 1) quarter progress, or 2) cumulative progress for the current training plan year. The progress percentage will be used with the grading scale to determine the minimum grade. High School Grade Scale: The following grading scale will be used to determine a letter grade from the progress percentage:

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|--------------|---------------|---------------|---------------|
| • A 94 - 100 | • B 83 - 86%  | • C 73 - 76%  | • D 63 - 66%  |
| • A- 90 - 93 | • B- 80 - 82% | • C- 70 - 72% | • D- 60 - 62% |
| • B+ 87 - 89 | • C+ 77 - 79  | • D+ 67 - 69% | • F 0 - 59%   |

## Additional Information

InformaCast Statement: Southwest Tech uses InformaCast to ensure the safety and well-being of our students. In times of emergency, such as weather closures and delays, this app allows us to promptly deliver notifications directly to your mobile devices. To stay informed and receive real-time updates, we encourage all students to sign up for notifications. Your safety is our priority, and staying connected ensures a swift response to any unforeseen circumstances. More information and directions for signing up are available at: <https://stech.edu/emergency-notifications/>

Internet Acceptable Use Policy: The student is expected to review and follow the Southwest Technical College Internet Safety Policy at: <https://stech.edu/students/policies/>

Student Code of Conduct Policy: The student is expected to review and follow the Southwest Technical College Student Code of Conduct Policy at: <https://stech.edu/students/policies/>

Accommodations: Students with medical, psychological, learning, or other disabilities desiring accommodations or services under ADA, must contact the Student Services Office. Student Services determines eligibility for and authorizes the provision of these accommodations and services. Students must voluntarily disclose that they have a disability, request an accommodation, and provide documentation of their disability. Students with disabilities may apply for accommodations, based on an eligible disability, through the Student Services office located at 757 W. 800 S., Cedar City, UT 84720, and by phone at (435) 586-2899. No diagnostic services are currently available through Southwest Technical College.

Safety and Building Maintenance: The College has developed and follows a variety of plans to ensure the safe and effective operation of its facilities and programs. The following plans are available online:

1) Facilities Operations and Maintenance Plan; 2) Technical Infrastructure Plan; and 3) Health and Safety Plan.

Withdrawals and Refunds: Please refer to the Southwest Technical College Refund Policy at: <https://stech.edu/students/policies/>

Any high school or adult student, who declares a technical training objective is eligible for admission at Southwest Technical College (Southwest Tech). Program-specific admissions requirements may exist and will be listed on the Southwest Tech website. A high school diploma or equivalent is not required for admission but is mandatory for students seeking Title IV Federal Financial Aid.

Non-Discriminatory Policy: Southwest Technical College affirms its commitment to promote the goals of fairness and equity in all aspects of the educational enterprise, and bases its policies on the idea of global human dignity.

Southwest Tech is committed to a policy of nondiscrimination. No otherwise qualified person may be excluded from participation in or be subjected to discrimination in any course, program or activity because of race, age, color, religion, sex, pregnancy, national origin or disability. Southwest Technical College does not discriminate on the basis of sex in the education programs or activities that it operates, as required by Title IX and 34 CFR part 106. The requirement not to discriminate in education programs or activities extends to admission and employment. Inquiries about Title IX and its regulations to STECH may be referred to the Title IX Coordinator, to the Department of Education, and/or to the Office for Civil rights.

If you believe you have experienced discrimination or harassment on our campus, please contact the Title IX Coordinator, Cory Estes: [cestes@stech.edu](mailto:cestes@stech.edu), (435) 865-3938.

For special accommodations, please contact the ADA Coordinator, Cyndie Tracy: [ctracy@stech.edu](mailto:ctracy@stech.edu), (435) 865-3944.

Southwest Technical College

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