

# Course Syllabus

Salt Lake Technical College

Department of Electronics Technologies



**Course Title:** Industrial Mechanics TEAM 1040

**Course Description:**

The Industrial Mechanics course is designed to introduce students to the world of mechanical drive systems and their characteristics. Students can demonstrate competency in the following: couplers, component identification, system related calculations, alignment, the effects of wear and vibration, component failure detection and prevention.

**Course Hours:** 90

**Credits:** 3

**Recommended Prerequisites** Completion of previous support courses or equivalent education and/or experience.

**Semester(s) Taught:** All

**Available Class Schedules:** [Westpointe Center](#)

Mon-Thu 7:00 a.m. - 1:00 p.m.

Mon-Thu 3:00 p.m. - 9:00 p.m.

**Objectives:**

- Demonstrate a working knowledge of safety practices and procedures.
- Maintain, calibrate, and repair power transmission systems.
- Maintain, calibrate, analyze, and repair mechanical drives (v-belt, chain, gear drive).
- Use and apply vibration and alignment measurement instrumentation and techniques.
- Troubleshoot mechanical drive components and systems.

### **Canvas Course Content Modifications:**

The Electronics department reserves the rights to make minor changes that will remove errors, improve delivery, ensure accuracy, and support student learning outcomes. This effects mainly new courses as they go thru a debug process during the first year.

- Quiz questions
- Assessment requirements
- Learning resources
- Lab Projects

As these changes may occur at any time and point in course modules, the understanding is as such: A student will not be required to backtrack to complete any changed page, assignment, or assessment. A student will be required to complete any changed page, assignment, or assessment.

**Course Outline:** Specific course outlines are listed on the Canvas Course site and /or in the student learning plans.

**Department Course Outcomes Assessments/Examinations:** Each course will have specific assessments listed, from module quizzes to department final theory examinations and hands-on demonstrations. Most tests are computer based and are delivered and graded by some type of LMS type software, which is usually part of the learning systems as well.

**Assignments:** All assignments are clearly listed and are usually part of a Module, which is addressing a particular competency. The Course Canvas site will list all assignment specifics.

**Participation:** You should consider this time of your life a very valuable opportunity in learning about Electronics, and the skills to enter a new or better occupation. Your involvement in the classroom and campus should be something that results in a lasting positive experience. “Get involved”, utilize the resources, pick the instructors brains, and learn as much as you can.

## **Grading Criteria & Assessment Definitions**

### **Grading System:**

**The list below is how letter grades will be defined for the course work required and completed.**

**Each course will have specific requirements as listed in the canvas course site.**

### **Letter Grades Scale:**

**The SLTC Electronics Department has as a minimum grade requirement of: C+ (77%) as a passing grade for all courses and all course assignments and assessments.**

<b>Letter Grade</b>	<b>Percentage</b>	<b>GPA</b>
A+	97–100%	4.0
A	93–96%	3.9
A-	90–92%	3.7
B+	87–89%	3.3
B	83–86%	3.0
B-	80–82%	2.7
C+	77–79%	2.3
C	73–76%	2.0
C-	70–72%	1.7
D+	67–69%	1.3
D	63–66%	1.0
D-	60–62%	0.7
F	0–59%	0.0

Grades for SLTC Electronics Department are based on the categories assignment/assessments areas below:

In most courses there are all 4 categories as shown below and the letter grade will be based upon the average of the applicable categories. There are courses that do not have 4 categories and those exceptions are below.

#### 4 - Categories

Category	Items	Weight	Criteria
Formative Assessment Cognitive	Theory/Quizzes	25%	100% of course work @ minimum grade of 77% for each assignment.
Formative Assessment Performance-Based	Skills Based Hands-on	25%	100% of course work @ minimum grade of 77% for each assignment.
Summative Assessment Cognitive	Theory/Quizzes/Exams	25%	100% of course work @ minimum grade of 77% for each assignment.
Summative Assessment Performance-Based	Skills Based Hands-on	25%	100% of course work @ minimum grade of 77% for each assignment.
		100%	

**Any 3 - Categories Courses** - Where there are only a SAC or SAP - but not both. Or not a FAC and/or FAP.

Category	Items	Weight	Criteria
Formative Assessment Cognitive	Theory/Quizzes	33.33%	100% of course work @ minimum grade of 77% for each assignment.
Formative Assessment Performance-Based	Skills Based Hands-on	33.33%	100% of course work @ minimum grade of 77% for each assignment.
Summative Assessment Cognitive or Summative Assessment Performance- Based	Theory/Quizzes/Exams  Skills Based Hands-on	33.34%	100% of course work @ minimum grade of 77% for each assignment.
		100%	

2 - Categories assessments/assignments each will carry 50% of total weight for a total of 100%.

## Formative Assessment – During the Learning Cycle

- Formative assessment is a term for any type of assessment or assignment used to gather student feedback and improve instruction. Formative assessments occur during the learning process, often while students are engaged in other activities. Anecdotal records, periodic quizzes or essays, diagnostic tests and in-class or homework assignments are all types of formative assessment because they provide information about a student's progress. Any Formative Assessment serves in most cases as the determining tool that “says” you as a student are ready and able to “Demonstrate Proficiency” of the required course outcomes/objectives.

Therefore, any weakness or missed objectives that need addressing during the Formative cycle will require some level of remediation before any Summative Assessments are allowed.

You are encouraged to ask for assistance with concepts that are challenging.

## Summative Assessment – Demonstration of Proficiency

- Summative assessment occurs at various points in a course and may include both cognitive and performance-based assessments.
- This is a time that you as a student should be able to complete the assignments and meet the criteria listed for the assessment.
- Objectives must be performed to the level that would meet industry requirements.

Your Success - is Our Success!

The department takes pride in our programs, and its mission is to fully support you in your endeavor to acquire skills to enter the fascinating field of Electronics Technologies. Please do not hesitate to approach the department with any questions at any time! When issues arise, please always follow the process of addressing it with the main faculty or staff that assist you on a regular basis, if you feel the problem or issue still exists, and there is no satisfactory solution; then approach the Full-time faculty and/or the department coordinator.

**Academic Progress:**

Every effort has been made to ensure that the coursework for a course can be completed within 100% of the published hours. As a student you will be provided a copy of your course expectation due dates and course completion points. This is to ensure that the “Student”, is proficient and acquires the required “Skills-Set”.

**Homework:** As a student you should expect to plan on about at least the course hours as out-side learning time. So, a 120- hour course may require 120 hours of homework.

**Cheating:** Plagiarism & Academic Dishonesty: \*Plagiarism is stealing or passing off as one's own, ideas or words of another, whether or not copyrighted. Plagiarism will be penalized by the instructor according to the degree of dishonesty the instructor judges is involved. Students guilty of academic dishonesty are subject to disciplinary action. Disciplinary action may include but is not limited to reduction of a grade on an assignment or examination, reduction of a grade for the class, suspension or expulsion from the course and or program. Students may appeal disciplinary action taken against them by filing a grievance.

NOTE: It is YOUR responsibility to keep a copy of ALL your work. Also, keep a backup copy of any course work completed on a computer. Will not be responsible for any loss of materials, you have a student drive that you can use when you log-on to the PC's.

Allowed materials at the Assessment System is clearly listed, no notes or references, except those listed in the Canvas course site.

**Students with Disabilities**

Students with medical, psychological, learning, or other disabilities desiring accommodations or services under ADA, should contact the Disability Resource Center (DRC). The DRC determines eligibility for and authorizes the provision of these accommodations and services for the college.

**Emergency Evacuation**

The building must be evacuated if the fire alarm sounds or if you are instructed to evacuate by an authorized Public Safety, Facilities, or administrative representative. Students in our class exit to nearest exit and move 20 feet away from the building. The instructor/lab aide will be happy to help you evacuate if you need assistance. Never ignore the fire alarm. Do not re-enter the building until directed to do so by an authorized Public Safety, Facilities, or administrative representative.