## CALENDAR DESCRIPTION:

This course gives students rudimentary hands-on experience in several industrial practices associated with welding, electrical systems, construction, and automotive work.

## PREREQUISITES:

Enrolled in the Engineering Physics diploma in Mechatronics program.

## TOTAL HOURS PER TERM:

| Lecture | 15 Hrs |
| Seminar |       |
| Laboratory |       |
| Field experience |       |
| Student directed learning |       |
| Other (specify): Shop experience | 15 Hrs |

## TRAINING DAY-BASED INSTRUCTION:

- Length of course: 
- Hours per day: 

## OTHER:

- Maximum enrolment: 18
- Expected frequency of course offerings: Annually (every semester, annually, every other year, etc.)

## WILL TRANSFER CREDIT BE REQUESTED?

- (lower-level courses only) Yes ☒ No ☐
- (upper-level requested by department) Yes ☐ No ☒

## TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:

- ☒ Yes ☐ No
LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

- Perform simple shop manufacturing activities,
- Identify the names, functions, and limitations of standard tools and standard fasteners.
- Identify projects that should be constructed by someone else.
- Find industrial code information.
- Estimate time and cost of simple projects.
- Adhere to shop safety standards.

METHODS: (Guest lecturers, presentations, online instruction, field trips, etc.)

Lecture
Shop experience

METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

☐ Examination(s)   ☒ Portfolio assessment   ☐ Interview(s)

☐ Other (specify):

☐ PLAR cannot be awarded for this course for the following reason(s):

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]  
None

Students will need access to industrial codes

SUPPLIES / MATERIALS:

As dictated by the shop supervisor for that offering of the course

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

In-class quizzes to assess knowledge of safety and standards: 20%
Shop work: 80%

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]  

Hands-on experience in:

- Welding
- Metal fabrication
- Automotive
- Framing
- Electrical/wiring
- Plumbing