ENGINEERING SYSTEMS TECHNOLOGY

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Program Director

BACKGROUND

- Program Started in 2012
- Advanced Integrated Industrial Technology
- Engineering Systems Technology
  - Course transferability

GOALS

- Consistency in teaching
- Hands on
- Offer few scheduled classes
- Work closely with the local industry
- Support business industry
- Work with local high schools

HIGH SCHOOL CONNECTION

- AAS degree at the same time as high school diploma
  - Four dual credit courses
  - Dual enrollment taught by Columbia State Community College Instructors
  - 6 high schools in three counties
  - One high school has all equipment for the degree
  - Program path developed for high school students to receive their AAS degree
  - Students at all high schools can also receive their certificate
  - Certificate does not require the general education courses

TEACHING PROCESS

- AMATROL online courses
- Students are assigned accounts to access the AMATROL online classes
  - Learning Activity Packet (LAP)
  - This process promotes reading or they can listen
  - Study can be done anywhere
  - Study requires “skills” that students must do on the trainers
  - Quiz at the end of each LAP
- This is a repeatable process at college and high schools

TEACHING PROCESS (CONTINUED)

- Teachers in the lab to help students with their question
- SKILLSHEET
  - Initialed by students
  - Approved by instructors
  - Required to submit as part of their grade
- Mandatory orientation
- Required weekly attendance

TEACHING PROCESS (CONTINUED)

- Midterm (written/lab), Final (written/lab)
- Same process for dual enrollment students
- Dual credit students, test end of the semester
- Required internship classes
- Articulation agreement for students that want to continue to get their engineering degree
- Client (students) service
- Continuous improvement

STUDENTS

- 37 students at college and over 100 students in dual credit and dual enrollment program at high schools
- We had 5 students from high school that received their certificate in 2018, 7 in 2019
- First AAS graduate in 2019