CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION: This course introduces students to the field of Stationary Engineering as it relates to the operation of fossil fuel based power plants. Topics covered include the steam plant cycle, coal fired boilers, oil and gas fired boilers, industrial and small power plants, super heat steam temperature control, furnace design, boiler settings, boiler accessories, combustion of fuels, pumps, steam turbines, super heaters, condensers, cooling towers, and waste to energy plants.

PREREQUISITES: HVA 201

COREQUISITES: HVA 202

EXPECTED COMPETENCIES:
Upon completion of this course, the student will be familiar with:
- Familiarize students with the field of Stationary Engineering
- Introduce students to the overall operation of small and large steam power plants
- Make students aware of the environmental considerations associated with the operation of power plants

ASSESSMENT METHODS:
Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:
90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E