ENGINEERING AND INDUSTRIAL TECHNOLOGY – POWER GENERATION OPTION

(Note: Program requirements for this degree are offered on NOC Tonkawa campus only. At the beginning of each course listing, the four letter abbreviation indicates the department and the four digits indicate the course code used for enrollment. The total course hour value follows each.)

Program Requirements

General Education Courses - 18 Total Credit Hours

English Composition Courses
ENGL 1113 English Composition I 3 hours
ENGL 1213 English Composition II 3 hours
(or) ENGL 1223 Technical Writing
(or) SPCH 1713 Introduction to Oral Communication

History & Government Courses
HIST 1483 Amer. History to 1877 3 hours
(or) HIST 1493 Amer. History Since 1877
POLI 1113 American Government 3 hours

Mathematics Courses
MATH 1493 Math Applications 3 hours
(or) other college-level math

Computer Science Courses
BSAD 1113 Digital/Financial Literacy 3 hours
(or other approved computer course)

Technical Occupational Specialty - 42 total hours

Total Credit Hours 60 hours

Students will be awarded 42 credit hours of extra-institutional credit for certified coursework and job performance demonstration at the OGE Energy Corporation in the areas of Plant Operations, Instrumentation, and Control, Plant Electricians, and Plant Mechanics at the following levels:
- Apprenticeship Level C-1, C-2, and C-3:
  - Safety-PPE and First-aid; Fall Suppression, Worker Right to Know/HAZCOM, Environchemical, Confined space, Basic Shop Equipment, Prints & Drawings, Clearance Procedures, fuel Systems,
  - SAP Notifications & Confirmation Notes, ash Removal systems, Circulating Water Systems, Steam Cycle, Compressed Air Systems, Turbine Auxiliaries, Generator, Plant Electrical Systems,
- Apprenticeship Level B-1 and B-2:
- Apprenticeship Level A-1 and A-2:

Students are required to pass the OGE certification examination for each of the above levels and complete 12 credit hours at Northern before credit can be transcripted.

The associate in Applied Science degree program is designed to provide the employees of the OGE Energy Corporation of Oklahoma an opportunity to complete an associate degree specifically designed to prepare them with the knowledge, technical skills, and job-related experiences necessary to make a significant contribution to their corporation. The specific areas of operations, instrumentation and control, electrical, and mechanics form the basis of the degree program. Additional focus of this program is the perpetuation of a quality workforce, a higher quality of life for our citizenry and statewide economic development.

Career Opportunities

Instrument and Control Operator
Plant Mechanic

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by A.C.T. test scores or by Accuplacer test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, students may be required to take one or more courses for remediation in English, Math, or Reading, either prior to or concurrent with credit courses. See the NOC testing web page by clicking on the following link: http://www.noc.edu/act for placement guidelines.