CIVIL ENGINEERING TECHNOLOGY

Enrollment and Graduation Data*

Fall 2018 Enrollment – 280

2017-18 Graduates – 80 BS degrees conferred

Program Educational Objectives

The program prepares and encourages students to:

- Attain gainful employment in the field of civil engineering, construction management, or any other closely related field;
- Pursue additional education, certification and/or professional licensure;
- Attain increasing levels of responsibility and leadership in their chosen field;
- Participate in organizations or activities within and outside of their profession.

Student Outcomes

General Criteria

The Student Outcomes for the Civil Engineering Technology program have been established such that students will demonstrate the following skills, knowledge, and behaviors. Graduates of the Civil Engineering Technology program will have:

1) an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline;
2) an ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
3) an ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
4) an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and
5) an ability to function effectively as a member as well as a leader on technical teams.

Program Specific Criteria

Graduates of baccalaureate degree programs typically analyze and design systems, specify project methods and materials, perform cost estimates and analyses, and manage technical activities in support of civil engineering projects. The curriculum must provide instruction in the following curricular areas:

a) utilization of principles, hardware, and software that are appropriate toproduce drawings, reports, quantity estimates, and other documents related tocivil engineering;
b) performance of standardized field and laboratory tests related to civil engineering;
c) utilization of surveying methods appropriate for land measurement and/or construction layout;
d) application of fundamental computational methods and elementary analytical techniques in sub-disciplines related to civil engineering;
e) planning and preparation of documents appropriate for design and construction;
f) performance of economic analyses and cost estimates related to design, construction, operations and maintenance of systems associated with civil engineering;
g) selection of appropriate engineering materials and practices; and
h) performance of standard analysis and design in at least three sub-disciplines related to civil engineering.

Updated June 2019

***** Source: RIT Institutional Research and Policy Studies