Civil Engineering Minor

The Minor in Civil Engineering will be offered to students in other engineering or science departments at the University of Pittsburgh at Johnstown. The applicant must have completed the Engineering Division's common freshman year courses or their equivalent. Plus the following courses, which are prerequisites for Civil Engineering (CE) courses.

- **MATH 0241 - ANALYTIC GEOMETRY AND CALCULUS 3** and **MATH 1271 - ORDINARY DIFFERENTIAL EQUATIONS**
- **ENGR 0132 - STATICS**
- **ENGR 0142 - MECHANICS OF MATERIALS**

Students from other engineering departments must be in good standing. Students from outside the Engineering Division must have an overall GPA of 2.5 or greater.

The Minor requires the completion of 18 credits of course work in Civil Engineering.

**Course Requirements:**

A total of six (6) courses are required for the minor. For flexibility, students may choose any six courses offered by the department, but prerequisites must be met.

The following eight courses are introductory courses.

- **CE 1105 - MATERIALS OF CONSTRUCTION**
- **CE 1220 - SURVEYING & LAND DEVELOPMENT**
- **CE 1330 - INTRODUCTION TO STRUCTURAL ANALYSIS**
- **CE 1402 - FLUID MECHANICS** or **ME 0071 - FLUID MECHANICS**
- **CE 1412 - HYDROLOGY AND WATER RESOURCES**
- **CE 1503 - INTRO TO ENVIRONMENTAL ENGRNG**
- **CE 1703 - TRANSPORTATION ENGINEERING**
- **CE 1811 - PRINCIPLES OF SOIL MECHANICS**

**Electives:**

Civil Engineering elective courses are listed below. (Note Prerequisites must be met or permission of the instructor must be obtained to take elective courses).

- **CE 1200 - CONSTRUCTION MANAGEMENT**
- **CE 1340 - CONCRETE STRUCTURES**
- **CE 1341 - STEEL STRUCTURES**
- **CE 1420 - HYDRAULIC DESIGN**
- **CE 1510 - WATER SUPPLY & WASTEWATER**
- **CE 1714 - PAVEMENT DESIGN AND MANAGEMENT**
- **CE 1730 - HIGHWAY SURVEYING AND DESIGN**
- **CE 1814 - SLOPES, SEEPAGE & EARTH STRUCTURES**
- **CE 1821 - FOUNDATION ENGINEERING**