

**ILLINOIS CENTRAL COLLEGE
EAST PEORIA, ILLINOIS
ASSOCIATE IN ENGINEERING SCIENCE**

The Illinois Central College catalog was reviewed for the Associate in Engineering Science degree and the Architectural Construction Technology, Associate in Applied Science degree. These degrees both require a total of 64 semester hours of coursework. The following is my evaluation of the applicable Surveyor-In-Training education requirement items.

Associate in Engineering Science:

Land Surveying: 24 semester hour requirement; no surveying in curriculum, thus 24 semester hours of Land Surveying required.

Pure Science: 8 semester hour requirement

CHEM 130: General Chemistry (4 sh)

CHEM 132: General Chemistry (4 sh)

An additional Physics course can be used as an elective. A total of 8 semester hours of Pure Science exists, thus no additional hours of Pure Science needed.

Mathematics: 15 semester hour requirement

MATH 222: Calculus & Analytic Geometry I (5 sh)

MATH 223: Calculus & Analytic Geometry II (4 sh)

MATH 224: Calculus & Analytic Geometry III (4 sh)

MATH 250: Differential Equations (3 sh)

A total of 16 semester hours of Mathematics exist, thus no additional Mathematics needed.

Additional Science: 20 semester hour requirement

ENGR 110: Introduction to Engineering (1 sh)

ENGR 230: Programming & Engineering Applications (3 sh)

PHYS 211: Engineering & Physics: Mechanics (4 sh)

PHYS 212: Engineering & Physics: Electricity & Magnetism (4 sh)

PHYS 213: Engineering Physics: Thermodynamics (2 sh)

ENGR 251: Statics (3 sh)

ENGR 252: Dynamics (3 sh)

A total of 20 semester hours of Additional Science exists, thus no additional is needed.

Architectural Construction Technology, AAS degree

Land Surveying: 24 semester hours required, the existing surveying course does not fulfill the requirements for SIUC's CE 263 Basic Surveying, thus 24 semester hours needed.

Pure Science: 8 semester hour requirement

PHYS 112: Technical Physics I (4 sh)

A total of 4 semester hours exist, thus 4 semester hours of Pure Science needed.

Mathematics: 15 semester hour requirement

MATH 130: Technical Algebra and Trigonometry (5 sh)

A total of 5 semester hours exist, thus 10 semester hours of Mathematics needed.

Additional Science: 20 semester hour requirement

ARCTK 113: Elementary Surveying (2 sh)

ARCTK 125: Soils and Foundation Materials (3 sh)

ARCTK 225: Site Development (2 sh)

A total of 7 semester hours exist, thus 13 semester hours Additional Science needed.