

Pre-Engineering

Program Aim

The purpose of the Pre-Engineering Program is to promote the education and exploration of entrepreneurship careers among high school students by providing the technical skills and knowledge necessary to make career decisions in this field.

Program Components

This program is a collaborative effort between six area high schools and Hibbing, Itasca and Mesabi-Range Community Colleges. This combined effort helps to build a more skilled, educated workforce through programs like this.

2009-10 School Year Courses

Course	Credit	College Partner	Participating High School
Project Lead the Way Intro to Engineering Design	high school*	Mesabi-Range CTC	Virginia
Project Lead the Way Principles of Engineering	high school*	Itasca CC	Deer River, Grand Rapids, N-K
Digital Electronics	high school*	Itasca CC	DRHS, GRHS
Intro to Engineering Design	high school*	Itasca CC	DRHS, GRHS, N-K HS, Greenway
Civil Engineering	high school*	Itasca CC	GRHS
Computer Integrated Design	high school*	Itasca CC	Greenway
Electricity	high school	Hibbing CC	Hibbing HS
Fundamentals of Industrial Design	high school*	Hibbing CC	Hibbing HS
Intro to Engineering	high school*	Hibbing CC	Hibbing HS
Technical Math	high school*	Hibbing CC	Hibbing HS

*articulated college credit possible

Listed above are several examples of careers you can pursue through ALI courses. If you are interested in this program, contact your high school counselor or principal and say you are interested in the ALI Pre-Engineering classes through Mesabi-Range, Itasca or Hibbing Community Colleges.

For more information about Mesabi-Range Community & Technical College ALI courses contact Carol Helland at c.helland@mr.mnscu.edu, 218-749-7715 or Jennifer Willard at j.willard@mr.mnscu.edu, 218-744-7524, Itasca Community College contact Janeen Kleffman at janeen.kleffman@itascacc.edu, 218-322-2387, Hibbing Community College contact Mike Raich at michaelraich@hibbing.edu, 218-262-6702.

Applied Learning Institute (ALI) was formed in 2006 to enhance technical education in northeast Minnesota by providing experiential learning that combines hands-on training and technology. The result will be highly qualified, knowledgeable workers who are equipped with the technical and problem-solving skills needed by employers everywhere. Having completed the pilot phase, ALI entered its first full-implementation year during the 2009-10 school year. ALI is a partnership connecting 17 northeast Minnesota school districts and the five colleges of the Northeast Higher Education District (NHED), a member of the Minnesota State Colleges and Universities System (MnSCU).