

Pre-engineering at Itasca

Program Aim

The purpose of ALI's Pre-engineering Program is to promote the education and exploration of engineering careers among high school students by providing the technical skills and knowledge necessary for them to make career decisions in this field. Here's what you can look forward to by participating in this program:

- career exploration

Program components

This program is a collaborative effort between five area high schools and Itasca Community College. This combined effort helps to build a more skilled, educated workforce through programs like this. Classes are offered to 11th and 12th graders through the following:

- daytime classes

Classes

Fall 2008 and Spring 2009

Principles of Engineering (DR)	2 high school credits (1 year)	day course
Principles of Engineering (GR)	1 high school credit (1 year)	day course
Introduction to Engineering Design (DR)	2 high school credits (1 year)	day course
Biomedical Engineering (GR)	1 high school credit (1 year)	day course
Introduction to Engineering Design (GR)	1 high school credit (1 year)	day course
Digital Electronics (GR)	1 high school credit (1 semester)	day course
Civil Engineering and Architecture (GR)	1 high school credit (1 year)	day course
	(potential to earn ICC college credit)	

Participating High Schools

- Deer River (DR) • Grand Rapids (GR)-Bigfork • Greenway • Hill City • Nashwauk-Keewatin

Listed above are several examples of careers you can pursue through ALI courses. If you are interested in this program or want to register for classes, contact your high school counselor or principal and say you're interested in the ALI Pre-engineering Curriculum through Itasca Community College.

For more information, contact Janeen Kleffman: janeen.kleffman@itascacc.edu • 218-322-2387.

ALI

Applied Learning Institute (ALI) was formed in 2006 to enhance the curriculum in northeast Minnesota by providing experiential learning that combines hands-on training and technology. The result will be highly trained, knowledgeable workers who are equipped with the technical and problem-solving skills needed by employers in the region and throughout the world. From this point on, each year thousands of work opportunities will be available in northeast Minnesota. While the region will have 7,500 openings each year due to retirements alone, some jobs have not even been created yet.

ALI programs are in the fields of advanced automotive, business entrepreneurship, construction trades, healthcare, industrial technology, natural resources and pre-engineering. ALI is a partnership connecting northeastern Minnesota school districts, colleges of the Northeastern Higher Education District (NHED), Iron Range Resources (IRR), Range Association of Municipalities and Schools (RAMS), and Minnesota Center for Engineering and Manufacturing Excellence (MNCEME). ALI is funded through a Minnesota legislative appropriation to NHED, funds from Iron Range Resources, and membership dues from partner institutions.