

discover
YOUR FUTURE

MERIDIAN TECHNOLOGY CENTER

PRE-ENGINEERING
ACADEMY





**it's education
LIKE YOU'VE
NEVER EXPERIENCED**

Pre-Engineering student preparing for a chemistry experiment.

This is not your traditional classroom. It's a place to explore, tinker and understand. It's an environment where you can ask questions and imagine possible answers.

With project-based assignments, you won't spend your days sitting at a desk listening to an instructor. Instead you'll train on engineering design software to invent a new product, use the latest technology to calibrate a high-tech material sorter and build an airplane that can fly. This classroom is a place where discovery happens every day.

Enrolling in this program is the first step to discovering your future as an engineer. The classes you'll take in the Academy will introduce you to a variety of engineering career paths. From design and development to biotech and aerospace, classes in this program form the foundation you need to succeed in a college engineering program.

Pre-engineering student performing a surveying exercise.



building
SKILLS

ENGINEERING COURSE OFFERINGS

Introduction to Engineering Design

Students use 3D modeling software to design solutions to problems.

Biotechnical Engineering

Biomedical and bioprocess engineering.
(Potential course offering fall 2013).

Principles of Engineering

Hands on projects in energy sources, control systems and materials.

Aerospace Engineering

Aerodynamics, astronautics and space-life science.

Digital Electronics

Electronic circuit design and micro-controller programming.

Engineering Design & Development

Capstone course where teams research a real problem and design solutions.

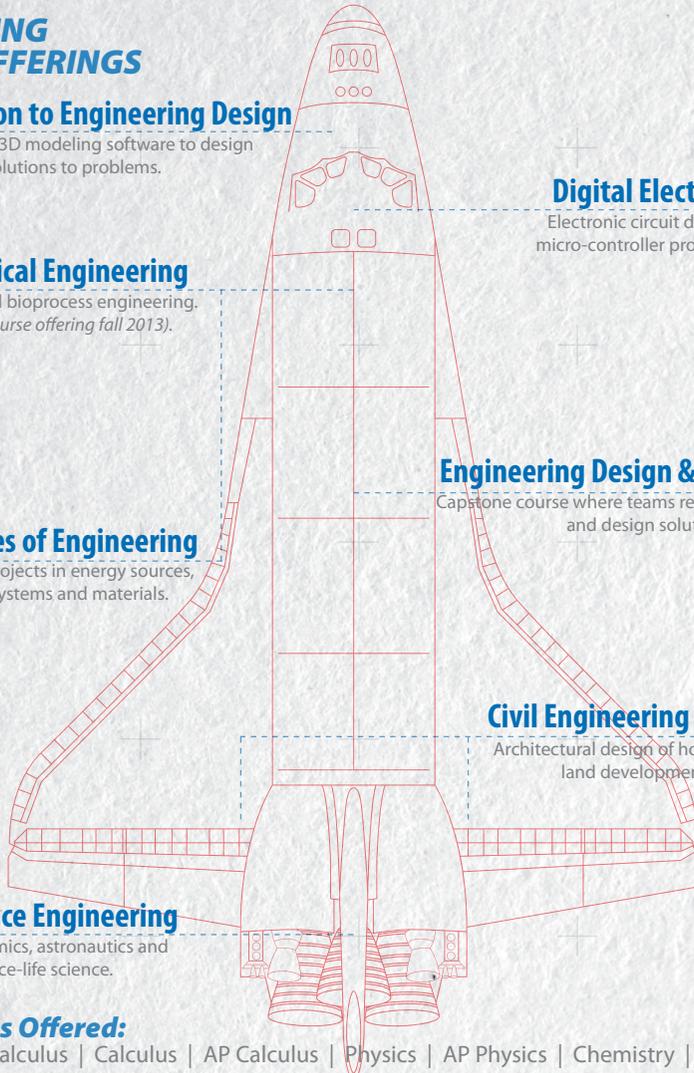
Civil Engineering & Architecture

Architectural design of homes, businesses and land development processes.

Math Courses Offered:

Algebra II | Precalculus | Calculus | AP Calculus | Physics | AP Physics | Chemistry | AP Chemistry

The Pre-Engineering Academy is the only program at Meridian that you can enroll in as a sophomore.



The Pre-Engineering Academy utilizes curriculum developed by Project Lead the Way® and is endorsed by the National Science Foundation, National Academy of Sciences, National Council of Math Teachers and International Technology Education Association. Courses in the Pre-Engineering Academy at Meridian qualify students to take Advanced Placement exams for college credit.

creating DREAMS

Pre-engineering students constructing an airplane wing for the Speedfest competition.



For more information on the Pre-Engineering Academy, visit meridiantech.edu/pre-engineering.

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Meridian Technology Center's facilities are accessible to disabled students. In addition, programs and instructional materials are adapted based upon the expressed need(s) of the disabled student. Disabled students requiring special equipment or facility arrangements should notify Meridian Technology Center personnel upon enrollment.