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| PROGRAM LENGTH: | 858 hours- diploma |
| AVAILABLE SCHEDULE: | Juniors: 7:15 - 9:00 a.m. or 2:15 - 4:00 p.m. Seniors: 7:15-10:15 a.m. or 1-4 p.m. |
| COLLEGE CREDIT: | National: Over 30 College Affiliates State: OSU |
| LICENSES/CERTIFICATIONS: | National Alliance for Pre-Engineering Programs |



FACT: MANY ENGINEERS OBTAIN GRADUATE DEGREES IN ENGINEERING OR BUSINESS ADMINISTRATION TO LEARN NEW TECHNOLOGY AND BROADEN THEIR EDUCATION. MANY HIGH-LEVEL EXECUTIVES IN GOVERNMENT AND INDUSTRY BEGAN THEIR CAREERS AS ENGINEERS.

COURSE DESCRIPTION: This program is designed as a college preparatory program for juniors interested in a career in the field of engineering. Because engineering encompasses a broad scope of career opportunities, students enrolled in the program complete five engineering courses in two school years. The courses selected to be taught are defined by the National Alliance for Pre Engineering Programs. Students apply Math and Science concepts while solving engineering challenges in a high tech lab. The 15:1 student/teacher ratio maximizes teaching, learning and time management, thus raising performance expectations for all. Students are required to complete four years of rigorous Math and Science at their home school in addition to the five Pre Engineering courses taught at MNTEC.

THE MAIN AREAS OF FOCUS...

- ▶ Overview and perspective of engineering.
- ▶ Design process/Computer Aided Design and Drafting.
- ▶ Communication and documentation.
- ▶ Engineering systems.
- ▶ Statics, dynamics and materials strength.
- ▶ Digital electronics.
- ▶ Engineering for quality and reliability.

CAREER & EDUCATION PATHS: Graduates of this program may continue to train in college for civil, electrical, software and electronics engineering; industrial/mechanical engineering; nuclear engineering, petroleum engineering, aerospace or biomedical engineering; architecture; education; certified consulting, mapping GIS/LIS, or as a laboratory technician.

CAREER INFORMATION: Engineers apply the theories and principles of science and mathematics to research and develop economical solutions to technical problems. Their work is the link between perceived social needs and commercial applications. Engineers design products, machinery to build those products, factories in which those products are made, and the systems that ensure the quality of the products and efficiency of the workforce and manufacturing process. Engineers design, plan, and supervise the construction of buildings, highways, and transit systems. They develop and implement improved ways to extract, process, and use raw materials, such as petroleum and natural gas. They develop new materials that both improve the performance of products and take advantage of advances in technology. Engineering knowledge is applied to improving many things, including the quality of health care, the safety of food products, and the efficient operation of financial systems.

PREREQUISITES:

THE FOLLOWING ENTRANCE REQUIREMENTS MUST BE MET:

- ▶ MUST PROVIDE OWN TRANSPORTATION.
- ▶ MUST HAVE COMPLETED, OR BE ENROLLED IN ALGEBRA II AND BIOLOGY.

PROGRAM INDICATORS FOR SUCCESS

One or more of the following entrance requirements are suggested:

HIGH SCHOOL ONLY

- ▶ ACT PLAN composite score: 20+
- ▶ COMPASS scores: Reading – 84, Math – 42 in Algebra, Writing – 82
- ▶ Recommend A's & B's in Math & Science
- ▶ Recommend 3.00 GPA

FOR MORE INFORMATION REGARDING ENROLLMENT AND CAREER ADVISEMENT:

Call: 364-5763, ext. 7260

Monday – Friday

8 a.m. - 4:30 p.m.

Or contact us at www.mntechnology.com

WHEN TO ENROLL

Applicants will be accepted until the program is full. Contact an Enrollment Advisor for current program openings.

HOW TO ENROLL

- ▶ Submit an application.
- ▶ Complete an academic & interest assessment.
- ▶ Meet the program prerequisites and success indicators.*
- ▶ High school applicant must complete a placement interview with an Enrollment Advisor – including academic assessments, attendance and career interest.

HOW MUCH DOES IT COST?

- ▶ High school students pay NO application or tuition fee.

Some programs may have additional expense for certification tests, tools, supplies, books and/or uniforms that vary by program. See your Enrollment Advisor for additional program expenses.

*Indicators for success are determined by the program supervisor, program instructor and an advisory committee consisting of business and industry representatives.

It is the policy of MNTC to not condone discrimination with regard to race, color, national origin, religion, sex/gender, age, disability or veteran status in enrollment or employment, nor in the educational programs or activities which it operates.