Product Design Engineering Technology

Required Courses

Why Choose Product Design Engineering Technology?

The Product Design Engineering Technology program at Ferris offers intensive instruction and practical experience in all facets of product design. Students are prepared to effectively participate in a design environment, generate conceptual design sketches and drawings, create complex design layouts, perform static and dynamic analysis, create models and prototypes, create and define complex surfaces and shapes, and understand and integrate manufacturing principles into design.

Study also emphasizes communication, mathematics and analytical skills. Students receive extensive hands-on experience through labs and internships to give them real-world experience.

Career Opportunities

A product designer begins with a concept, then transforms it into a working design that specifies the size, shape, style, dimensions and materials needed. Because this skill is needed for the production of millions of industrial and consumer goods, designers are in great demand.

Their knowledge of design, engineering analysis, manufacturing processes and communication techniques are valued in industries across the United States. Employment opportunities exist across the spectrum of the product design field wherever products are produced, designers will be found.

Specific job titles might include product designer, layout drafter, project manager, product developer, computer-aided designer, mechanical designer, project engineer, and design engineer.

Admission Requirements

First Year Student entering the program must have a 2.75 high school gpa or higher, ACT COMPOSITE 20, ENGL 17, MATH ACT 19, READING 20 Or SAT 16 Total of 1030, SAT16 EWR 450. SAT16 MATH 500

Transfer Student 2+2 entering to program must have completed a minimum of 60 transferrable semester hours with a minimum overall GPA of 2.5. The following specific courses are required for admission and may be included in the total transferable credit hours:

English Composition I & II
Basic Public Speaking
Mathematics through Pre-Calculus
General Physics I (with lab.)
Basic Material Science  
Introductory Computer Aided Design  
Cultural - 3 credit hours  
Self and Society - 3 credit hours  

Admission counselors or program advisors should be consulted for an evaluation of transferability and course equivalency. Under special circumstances students with exceptional academic records can be admitted to the program before all pre-admission requirements are completed.

**General Education Requirements**

All University General Education requirements for a Bachelor’s degree is [https://ferris.edu/HTMLS/academics/general-education/requirements/BA-BS.htm](https://ferris.edu/HTMLS/academics/general-education/requirements/BA-BS.htm)  

Please consult this link for a complete listing of General Education Electives.

Consult the Required Courses above or the program advisor for program specific General Education requirements.

**Graduation Requirements**

The Product Design Engineering Technology program at Ferris leads to a bachelor of science degree.

Students must

- maintain a 2.00 cumulative FSU GPA
- have 40 credits at the 300/400 level
- have 30 credits of Ferris classes (FSU Residency requirement)
- have a minimum 120 total credits to earn a bachelor degree
- complete all general education requirements as outlined on the General Education website

**More Information**

Product Design Engineering Technology Program  
915 Campus Drive, SWN 405  
Big Rapids, MI 49307-2291  
Phone: 231-591-2755  
email: pdet@ferris.edu

College of Engineering Technology  
Ferris State University  
1009 Campus Drive  
Big Rapids, MI 49307-2280  
Phone: 231-591-2890

ADA compliant checksheets are being developed for the 2019-2020 Catalog. If you would like to request an ADA compliant checksheet before the 19-20 catalog is published, please send your request to: FSUCurriculum@ferris.edu