

The Product Design Engineering Technology program at Ferris offers 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 also receive hands-on experience through labs that gives them real-world experience.

General Admission Criteria

To be admitted to this degree, students must have a minimum of 60 transferable semester credit hours of pre-admission coursework. A minimum 2.5 grade point average is required, and students will need to submit official transcripts from all accredited colleges/universities with their application.

The following courses (or FSU equivalents) must be completed with a "C" or higher prior to admission: ENG 111 (ENGL 150), ENG 112 (ENGL 250), COM 111 (COMM 121), MTH 121 & MTH 122 (MATH 126) or MTH 140 (MATH 130), PHY 121 (PHYS 211).

Course Requirements

Northwestern Michigan College				Ferris State University		
Course	Ferris Equiv.	NMC Course Titles	Cr. Hrs.	Course	Ferris Course Titles	Cr. Hrs.
Pre-admission classes						
ENG 111	ENGL 150	English Composition I	3	COMM 336	Technical & Professional Presentation	3
ENG 112	ENGL 250	English Composition II	3	EEET 201	Electrical Automation	3
COM 111	COMM 121	Public Speaking	3	ENGL 321	Advanced Composition	3
(MTH 121 and MTH 122) or MTH 140	MATH 130	College Algebra and Trigonometry	6	PDET 311	Seminar into Product Design	1
PHY 121	PHYS 211	General Physics I	3	PDET 312	Advanced Tolerancing	2
		FSU General Education – Self and Society Elective (100 level or higher)*	3	PDET 321	Applied Mechanics and Kinematic	3
		FSU General Education - Culture Elective (100 level or higher)*	3	PDET 322	Solid Modeling & Prototyping	2
		CAD Graphics Class (mechanical)		PDET 411	Machine Design	3
Other classes		As needed to achieve a total of 60 credit hours		PDET 412	Statistics & Ergonomics	2
		Sub-Total (minimum)	60	PDET 413	Applied Fluids and Thermodynamics	3
Program classes						
		FSU General Education - Self and Society Elective (200 level or higher)*	3	PDET 415	Advanced Solid Modeling CAD	3
		FSU General Education - Culture Elective (200 level or higher)*	3	PDET 422	Advanced Machine Design with FEA	3
ART 121	ARTS 101	Drawing 1	3	PDET 499	Product Design Project	3
CHM 101	CHEM 103	Introductory Chemistry	3	PLTS 342	Materials Selection Plastics	3
GEO 109	GEOG 100	World Regional Geography	3	MATL 240	Material Science	4
MTH 141	MATH 220	Calculus I	5	MATL 341	Material Selection Metals	3
		Total Northwestern Michigan College Credits	80	MECH 340	Statics & Strengths of Materials	4
				MFGE 352	Design for Manufacturing	2
				Total Ferris Credits		50
				Credits Required for Degree (Minimum) 130		

Students transferring to Ferris with the Michigan Transfer Agreement (MTA) and entering a degree program will have met a 30-hour block of lower-level general education courses. However, this does not exempt students from completing program specific prerequisites or higher-level general education course requirements. Students should contact their advisor regarding classes that meet the MTA.

Students are encouraged to work with their Ferris advisor for selection of any electives, to ensure transferability and to minimize credits taken.

Effective Spring 2017

Ferris State University is an equal opportunity institution. For information on the University's Policy on Non-Discrimination, visit ferris.edu/non-discrimination.

Program Offered at:
Main Campus, Big Rapids
 Product Design Engineering Technology
<http://www.ferris.edu/pdet>
 pdet@ferris.edu
 231-591-2755

www.ferris.edu/transfer

Transfer Student Orientation

All new students to Ferris State University are required to complete an orientation. Orientation for incoming freshmen is a one-day session that occurs on campus and includes class registration. Eligible transfer students have the option of completing an online orientation or attending an on campus session.

Advising Notes

Ferris participates in the Michigan Transfer Agreement (MTA). This agreement will facilitate the transfer of general education requirements from one Michigan institution to another. Students may complete the MTA as part of a degree program or as a stand alone package. The MTA consists of a minimum of 30 general education credit hours as identified by the college or university.

It is recommended that potential applicants meet with an advisor to review the degree, course schedule, and have any questions answered prior to completing an application. Once admitted, students must continue to meet with an advisor as they work towards graduation.

Online Learning

An "Online Readiness Tutorial" is required for students who register for an online course or are completing an online degree. Students must demonstrate competency in FerrisConnect skills. This may be done by taking a tutorial and quiz, or, for students who have already taken and passed online courses, they can submit a waiver request. Students should check with the department that offers the class to determine its particular needs and/or the Ferris advisor regarding registration for online course work.

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Disclaimer

This is a guide for students who plan to transfer to Ferris State University. This guide is not intended to be a contract with Ferris. The information on this guide is subject to change. Students should contact Ferris to keep informed of changes. Final responsibility for verifying all transfer information lies with the student.