

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 Ferris equivalents) must be completed with a "C" or higher prior to admission: CM 104 (COMM 121), EN 101 (ENGL150), EN 102 (ENGL 250), MA 110 & MA 111 (MATH 130) or MATH 125 (MATH 126), TEC 105 (MATL 240), PH (PHYS 211).

Course Requirements

Bay College				Ferris State University		
Course	Ferris Equiv.	Bay College Course Titles	Cr. Hrs.	Course	Ferris Course Titles	Cr. Hrs.
Pre-admission classes				COMM 336	Technical & Professional Presentation	3
CM 104	COMM 121	Public Speaking	3	EEET 201	Electrical Automation	3
EN 101	ENGL 150	Rhetoric & Composition	3	ENGL 321	Advanced Composition	3
EN 102	ENGL 250	Research Writing	2	PDET 311	Seminar into Product Design	1
(MA 110 & MA 111) or MATH 125	MATH 115 & MATH 120 or MATH 126	College Algebra & Trigonometry or Technical Algebra & Trig II	6 or 4	PDET 312	Advanced Tolerancing	2
TECH 105	MATL	Material Science	4	PDET 321	Applied Mechanics and Kinematic	3
PH 201	PHYS 211	General Physics I	4	PDET 322	Solid Modeling & Prototyping	2
Bay	Varies	FSU General Education - Self and Society Elective (100 level or higher)*	3	PDET 411	Machine Design	3
Bay	Varies	FSU General Education - Culture Elective (100 level or higher)*	3	PDET 412	Statistics & Ergonomics	2
Bay	Varies	CAD Graphics Class (mechanical)		PDET 413	Applied Fluids and Thermodynamics	3
Other classes		As needed to achieve a total of 60 credit hours		PDET 415	Advanced Solid Modeling CAD	3
Pre-Admission Sub-Total (minimum)			60	PDET 422	Advanced Machine Design with FEA	3
Program classes				PDET 499	Product Design Project	3
Bay	Varies	FSU General Education - Self and Society Elective (200 level or higher)*	3	PLTS 342	Materials Selection Plastics	3
Bay	Varies	FSU General Education - Culture Elective (200 level or higher)*	3	MATL 341	Material Selection Metals	3
ARTS 115	ARTS 101	Drawing I	4	MECH 340	Statics & Strengths of Materials	4
CHEM 103	CHEM 103	Essential Chemistry	4	MFGE 352	Design for Manufacturing	2
GEOG 125	GEOG 100	World Geography	3	Total Ferris Credits		46
MATH 225	MATH 216	Technical Calculus	4	Credits Required for Degree (Minimum)		
Total Bay College Credits			81			127

FSU General Education Requirements can be found at:

<http://www.ferris.edu/HTMLS/academics/gened/index.htm>.

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 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.

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

Advising Notes

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. Students who are completing the MTA may have different general education course requirements for the particular degree selected. Meeting with a Ferris advisor prior to the selection of general education or elective course work may reduce the chance of completing a course that will not apply toward the selected degree. Once admitted, students must continue to meet with an advisor as they work toward graduation.

Transfer Student Orientation

All new students to Ferris State University are required to complete an orientation

Online Learning

Select courses delivered online and/or in a mixed delivery format (i.e. a mix of online and face-to-face instruction at the Ferris Main Campus or at an off-campus location). The "Online Readiness Tutorial" is required for students who register for an online *course* or are completing an online *degree*. Students must demonstrate competency in Blackboard 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.

Reverse Transfer Agreement

The Community College and Ferris have entered into a partnership in order to work collaboratively and creatively to increase student completion of associate and bachelor degrees. The partners work together to provide a seamless transfer experience and increase student retention and completion at both the community college and Ferris.

Michigan Transfer Agreement (MTA)

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.

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 their community college or Ferris to keep informed of changes. Final responsibility for verifying all transfer information lies with the student. Please refer to the effective and/or revised date on the bottom of the guide.