

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.

General Admission Criteria

To be admitted to this degree program, students must have completed a minimum of 60 transferrable semester credit hours with a minimum GPA of 2.5 (on a 4.0 scale). Included in the 60 semester hours of pre-admission courses are the following MCC courses, which must have a minimum grade of C (2.0 on a 4.0 scale). ENG 101, ENG 102, COM 201, MATH 111 & 112 or MATH 201 & 202, MET 201, PHYS 201, Social Awareness 100 level or higher (3 credits), Cultural Enrichment 100 level or higher (3 credits), one course in mechanical based computer aided drafting (CAD). It is recommended that students submit applications by January 15th prior for fall entry to on-campus program. Official transcripts from all accredited colleges/universities must be submitted with the Ferris application.

Course Requirements

Muskegon Community College				Ferris State University		
Course	Ferris Equiv.	Muskegon Course Title	Cr. Hrs.	Course	Ferris Course Title	Cr. Hrs.
Pre-admission classes				COMM 336	Technical & Professional Presentation	3
COM 201	COMM 121	Public Speaking	3	EEET 201	Electrical Automation	3
ENG 101	ENGL 150	English Composition I	3	ENGL 321	Advanced Composition	3
ENG 102	ENGL 250	English Composition II	3	ENGL 311		
MATH 111 & 112	MATH 126 / MATH 130	Pre-calculus	4	MATL 341	Material Selection Metals	3
MET 201	MATL 240	Material Science	3	MECH 340	Statics & Strengths of Materials	4
PHYS 201	PYS 211	General Physics I	3	MFGE 352	Design for Manufacturing	2
MCC	Varies	Self and Society Elective (100 level or higher)	3	PDET 311	Seminar into Product Design	1
MCC	Varies	Culture Elective (100 level or higher)	3	PDET 312	Advanced Tolerancing	2
MCC	Varies	CAD Graphics (Mechanical)	3	PDET 321	Applied Mechanics and Kinematic	3
Other classes		MCC	35	PDET 322	Solid Modeling & Prototyping	2
Sub-Total (minimum)			60	PDET 411	Machine Design	3
Program classes				PDET 412	Statistics & Ergonomics	2
ART 104	ARTS 101	Drawing I	3	PDET 413	Applied Fluids and Thermodynamics	3
CHM 100 & 100A	CHEM 103	Survey of General Chemistry	3	PDET 415	Advanced Solid Modeling CAD	3
GEOG 105	GEOG 100	World Regional Geography	3	PDET 422	Advanced Machine Design with FEA	3
MATH 151	MATH 216	Survey of Calculus or Calculus with Analytical Geometry I	4	PDET 499	Product Design Project	3
MATH 161				PLTS 342	Materials Selection Plastics	3
MCC	Varies	Culture Elective* (3 credits at FSU 200+ level)	3	Total Ferris Credits		
MCC	Varies	Self and Society Elective (3 credits at FSU 200+ level)	3	Total Credits Required for Degree (Minimum)		
Total Muskegon Community College Credits			79	125		

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.

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

Ferris Statewide, Grand Rapids
 (616) 451-4777 or (800) 998-3425
 or fsugr@ferris.edu
www.ferris.edu/grandrapids

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.