

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. Demonstrated competency in basic Computer Aided Design (mechanical), three semester credits of approved Cultural Enrichment and three semester credits of Social Awareness are also required. Financial aid is available for students who have earned an Associate degree or 48 semester hours.

The following courses (or FSU equivalents) must be completed with a "C" or higher: ENGL 1180 or 1210 (ENGL 150), ENGL 1190 or ENGL 1220 (ENGL 250), SPCH 1060 (COMM 121), PRDE 1300 (MATL 240), PHY 1180 (PHYS 211), MATH 1450 or MATH 1460 (MATH 126 / 130) and one course in Computer Aided Design (CAD) for mechanical applications.

Course Requirements

Macomb Community College			
Course	Ferris Equiv.	Macomb CC Course Titles	Cr. Hrs.
Pre-admission classes			
SPCH 1060	COMM 121	Speech Communication	3
ENGL 1180 or 1210	ENGL 150	English Composition I	3
ENGL 1190 or 1220	ENG 250	English Composition II	3
PRDE 1300	MATL 240	Industl & Material Process	4
MATH 1450 or MATH 1460	MATH 126 or MATH 130	Algebra & Trigonometry or Pre-Calculus	4
PHY 1180	PHYS 211	General Physics I	3
MCC		FSU General Education - Self and Society Elective (100 level or higher)*	3
MCC		FSU General Education - Culture Elective (100 level or higher)*	3
MCC		CAD Graphics Class (mechanical)	3
Other classes		As needed to achieve a total of 60 credit hours	
Sub-Total (minimum)			60
Program classes			
MCC		FSU General Education - Self and Society Elective (200 level or higher)*	3
MCC		FSU General Education - Culture Elective (200 level or higher)*	3
ART 1060	ARTS 101	Basic Drawing I	3
CHEM 1050	CHEM 103	Introductory Chemistry	4
GEOG 2000	GEOG 100	World Geography	4
MATH 1760	MATH 216	Analytic Geometry & Calc	4
PRDE 1475	PDET 322	Overview of Pro/ Engineer	3
Total Macomb Community College Credits			84

Please refer to FSU's General Education Requirements at:
<http://www.ferris.edu/htmls/academics/gened/index.htm>

Ferris State University		
Course	Ferris Course Titles	Cr. Hrs.
COMM 336	Technical & Professional Presentation	3
EEET 201	Electrical Automation	3
ENGL 321	Advanced Composition	3
PDET 311	Seminar into Product Design	1
PDET 312	Advanced Tolerancing	2
PDET 321	Applied Mechanics and Kinematic	3
PDET 411	Machine Design	3
PDET 412	Statistics & Ergonomics	2
PDET 413	Applied Fluids and Thermodynamics	3
PDET 415	Advanced Solid Modeling CAD	3
PDET 422	Advanced Machine Design with FEA	3
PDET 499	Product Design Project	3
MATL 341	Material Selection Metals	3
MECH 340	Statics & Strengths of Materials	4
MFGE 352	Design for Manufacturing	2
PLTS 342	Materials Selection Plastics	3
Total Ferris Credits		44
Credits Required for Degree (Minimum)		128

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:

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.