

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 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 pre-admission courses are the following KCC courses which must have a grade of C (2.0 on a 4.0 scale). ENGL 151 ENGL 152 COMM 207 MATH 119 or 140 ENTE 215 PHYS 111 & 111A 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) - such as KCC course DRAF 181 or 194 or 231 It is recommended that students submit applications by January 15<sup>th</sup> prior to fall entry. Official transcripts from all accredited colleges/universities must be submitted with the Ferris application.

Kellogg Community College			
Course	Ferris Equiv.	Kellogg CC Course Titles	Cr. Hrs.
<b>Pre-admission classes</b>			
COMM 207	COMM 121	Public Speaking	3
ENGL 151	ENGL 150	Freshman Composition I	3
ENGL 152	ENG 250	Freshman Composition II	3
MATH 140 or MATH 119	MATH 130 or MATH 126	Pre- Calculus or Applied Algebra/ Trig II	3-4
ENTE 215	MATL 240	Material Science	3
PHYS 111 and PHYS 111A	PHYS 211	Intro to Physics I And Physics Lab	4
KCC		FSU General Education - Self and Society Elective (100 level or higher)*	3
KCC		FSU General Education - Culture Elective (100 level or higher)*	3
KCC		CAD Graphics Class (mechanical)	
Other classes		As needed to achieve a total of 60 credit hours	
<b>Sub-Total (minimum)</b>			<b>60</b>
<b>Program classes</b>			
KCC		FSU General Education - Self and Society Elective (200 level or higher)*	3
KCC		FSU General Education - Culture Elective (200 level or higher)*	3
ART 110	ARTS 101	Drawing I	3
CHM 100	CHEM 114	Introductory Chemistry	4
MATH 141	MATH 220	Calculus I	5
ENTE 220	MECH 340	Statics & Strengths Matl (grade 3.0 or better)	3
<b>Total Kellogg Community College Credits</b>			<b>81</b>

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
MATL 341	Material Selection Metals	3
MECH 340	Statics & Strengths of Materials	4
MFGE 352	Design for Manufacturing	2
PDET 311	Seminar into Product Design	1
PDET 312	Advanced Tolerancing	2
PDET 321	Applied Mechanics and Kinematic	3
PDET 322	Solid Modeling & Prototyping	2
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
PLTS 342	Materials Selection Plastics	3
<b>Total Ferris Credits</b>		<b>46</b>
<b>Credits Required for Degree (Minimum)</b>		<b>127</b>

Please refer to FSU's General Education Requirements 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 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>  
**231-591-2755**

[www.ferris.edu/transfer](http://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.*