

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.

Course Requirements

| Alpena Community College | | | | Ferris State University | | |
|---|---------------|--|-----------|--|---------------------------------------|-----------|
| Course | Ferris Equiv. | Alpena CC Course Titles | Cr. Hrs. | Course | Ferris Course Titles | Cr. Hrs. |
| Pre-admission classes | | | | | | |
| ENGL 111 | ENGL 150 | English Composition I | 3 | COMM 336 | Technical & Professional Presentation | 3 |
| ENGL 112 | ENGL 250 | English Composition II | 3 | ENGL 321 | Advanced Composition | 3 |
| MET 200 | MATL 240 | Metal/Heat Treat. Fund. | 3 | MATL 341 | Material Selection Metals | 3 |
| MTH 123 | MATH 130 | College Algebra/Analytic Trig | 4 | MFGE 352 | Design for Manufacturing | 2 |
| PHY 121 | PHYS 211 | General Physics I | 4 | PDET 311 | Seminar into Product Design | 1 |
| SPE 123 | COMM 121 | Public Communication | 3 | PDET 312 | Advanced Tolerancing | 2 |
| ACC | | FSU General Education - Self and Society Elective (100 level or higher)* | 3 | PDET 321 | Applied Mechanics and Kinematic | 3 |
| ACC | | FSU General Education - Culture Elective (100 level or higher)* | 3 | PDET 322 | Model & Prototyping | 2 |
| ACC | | 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 |
| Pre-Admission Sub-Total (minimum) | | | 60 | PDET 413 | Applied Fluids and Thermodynamics | 3 |
| Program classes | | | | | | |
| ACC | | FSU General Education - Self and Society Elective (200 level or higher)* | 3 | PDET 415 | Advanced Solid Modeling CAD | 3 |
| ACC | | FSU General Education - Culture Elective (200 level or higher)* | 3 | PLTS 342 | Materials Selection Plastics | 3 |
| ART 123 | ARTS 101 | Design I | 3 | PDET 415 | Advanced Solid Modeling CAD | 3 |
| CEM 100 | CHEM 103 | Introductory Chemistry | 3 | PDET 422 | Advanced Machine Design with FEA | 3 |
| GEO 126 | GEOG 100 | Cultural Geography | 3 | PDET 499 | Product Design Project | 3 |
| APP100E | EEET 201 | Electrical Studies for Trades | 3 | Total Ferris Credits | | 42 |
| IND225 | MECH340 | Strengths of Materials | 4 | Credits Required for Degree (Minimum) | | |
| MTH 131 | MATH 216 | Calculus and Geometry | 5 | 129 | | |
| Total Alpena Community College Credits | | | 87 | | | |

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

General Admission Criteria**Transfer Students – Degree Completion at the Community College**

- To be admitted to this degree program, either a completed associate degree or at least 48 transferable semester credit hours (“C” or better on 4.0 scale) from an accredited college or university with a 2.35 overall GPA and credit for, or placement into, ENGL 150 and MATH 115 is required. Official transcripts from all accredited colleges and universities must be submitted with the Ferris application.

Transfer Students – Big Rapids Main Campus

- Combined college or university GPA of 2.35 (on a 4.0 scale) from all institutions attended (GPA is based on completion of 12 credit hours or more). It is highly recommended that transfer credits include the FSU equivalency of ENGL 150, MATH 115, and the FSU equivalency of a social awareness or cultural enrichment course OR general education requirements. Developmental courses are not considered in computing the GPA requirement.
- Transfer equivalency for FSU ENGL 150 or placement during the first semester at FSU that would require an ACT English score of 16 or higher; Compass score 70 – 100.
- Transfer equivalency for FSU MATH 115 or placement during the first semester at FSU that would require an ACT Math score of 19 or higher; Compass Algebra score 46 - 74 and HS Algebra with 2.0.

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.