## BACHELOR'S DEGREE PROGRAM INFORMATION

| Institution | **Oakland University** |
|---|---|
| Degree/Program | **Mechanical Engineering, B.S.E.** |
| Credits Required | **128** |

## MICHIGAN TRANSFER AGREEMENT (MTA)

The MiTransfer Pathways builds on the Michigan Transfer Agreement (MTA). The MTA allows transfer students to select designated courses to complete a minimum of 30 credit hours fulfilling MTA distribution requirements. Students following MiTransfer Pathway agreements should complete the MTA in accordance with the sending institutions' course designations and consider whether any recommended MiTransfer Pathways major-specific courses will "double count" to fulfill MTA distribution requirements in planning their transfer. More information about the MTA is available at www.mitransfer.org.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Mechanical Engineering MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

## MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program around the state among participating institutions.

| Pathway Course | Subject/ Course Number | Course Title | Credit Hrs |
|---|---|---|---|
| Calculus I | MTH 1554 | Calculus I | 4 |
| Calculus II | MTH 1555 | Calculus II | 4 |
| Calculus III | MTH 2554 | Multivariable Calculus | 4 |
| Differential Equations | APM 2559 or<br><br>APM 2555 | Intro to Differential Equations with Matrix Alg<br>or<br>Intro to Differential Equations | 4 |
| Physics I (Calculus-based, w/lab) | PHY 1510/1100 | Introductory Physics lec/lab | 5 |
| Physics II (Calculus-based, w/lab) | PHY 1520/1110 | Introductory Physics lec/lab | 5 |
| Chemistry 1 (w/lab) | CHM 1440/1470 | General Chemistry lec/lab | 5 |
| Statics | N/A | | - |
| *Dynamics | ME 3200 | Engineering Mechanics | 4 |
| *Mechanics of Solids/Strength of Materials (no lab required) | ME 3250 | Mechanics of Materials | 4 |
| Computer Programming | EGR 1400 | Computer Problem Solving in Engineering & Computer Science | 4 |
| Intro CAD/Graphics | EGR 1200 | Engineering Graphics & CAD | 1 |
| | | TOTAL CREDITS | 44 |
| *Requires an additional one credit lab course at OU | | | |

## REMAINING DEGREE REQUIREMENTS

These are required, recommended, or optional courses that transfer students could complete at a community college to fulfill degree requirements at the university/ receiving institution. Specifically, universities should include courses like Introduction to Engineering, and additional Linear Algebra courses as applicable.

| General Education or Program Requirement | Subject/ Course Number | Course Title | Credit Hrs |
|---|---|---|---|
| General Education | ECN 2000 or 2010 | Macroeconomics or Microeconomics | 4 |
| General Education | Approved Math/Science Elective | Varies | 4-5 |

| Program Requirement | MTH 2775 | Linear Algebra | 4 | |
|---|---|---|---|---|
| TOTAL CREDITS | | | 12-13 | |