

# Lake Superior State University—Articulation Agreement

## Oakland Community College

Transfer Major: Bachelor of Science-Mechanical Engineering

|                 |  |               |                       |
|-----------------|--|---------------|-----------------------|
| <b>Contacts</b> | Beau L. Everitt, Dean<br>Engineering, Manufacturing & Industrial Technology<br>Oakland Community College<br>(248) 232-4311 or <a href="mailto:bleverit@oaklandcc.edu">bleverit@oaklandcc.edu</a> | <b>Valid:</b> | Fall 2025 - Fall 2028 |
|                 | Dr. Joseph P. Moening, Chair<br>School of Engineering and Technology<br>Lake Superior State University<br>(906) 635-2135 or <a href="mailto:jmoening@lssu.edu">jmoening@lssu.edu</a>             |               |                       |

| Oakland College Courses  | LSSU Equivalency                          | Additional LSSU Courses  |
|--|---|--|
| <b>Michigan Transfer Agreement (MTA)</b>                                 | <b>STUDENTS EARN MTA AT Oakland</b>       | <b>REQUIREMENTS</b>  |
| ENG xxxx English Comp. Elective 3  | ENGL110 First-Year Composition I 3        | MATH308 Probability & Math Statistics 3  |
| XXXXxxx Communications Elective 3  | XXXXxxx Communications Elective 3         | EGME275 Engineering Materials I 3  |
| MAT1730 Mathematics 4  | MATH151 Calculus I 4                      | EGME276 Strength of Materials Lab 1  |
| CHE1510 General Chemistry I 4  | CHEM115 General Chemistry I 4             | EGME337 Thermodynamics 4   |
| PHY2400 Engineering Physics I 5  | PHYS231 Applied Phy Eng./Scientist 4+1    | EGME338 Fluid Mechanics 3  |
| XXXXxxx Social Science 6   | XXXXxxx Social & Behav. Science 6         | EGME350 Machine Design 4   |
| XXXXxxx Fine Arts/Humanities 6   | XXXXxxx Humanities 6                      | EGME431 Heat Transfer 3  |
|  |   | EGME432 Thermal & Fluids Lab 2   |
| <b>REQUIREMENTS</b>  | <b>REQUIREMENTS</b>                       | EGNR 265 C Programming 3   |
| CHE1510 From above MTA   | CHEM115 From above MTA                    | EGNR340 Num Methods for Engineers 1  |
| EGR1100 Intro to Engineering 3   | EGNR101 Intro. to Engineering 2+1         | EGRS460 Control Systems 4  |
| EGR2010 Engineering Programming 4  | EGNR140 Linear Alg Num Apps Engineers 2+2 | <b>SENIOR SEQUENCE (Select 1)</b> 6-10   |
| MAT1730 From above MTA   | MATH151 From above MTA                    | Industrial: EGNR491 & 495  |
| MAT1740 Calculus II 4  | MATH152 Calculus II 4                     | Cooperative: EGNR450, 451, & 491   |
| MAT2740 Calculus III 4   | MATH251 Calculus III 4                    | Research: EGNR260, 460, & 461  |
| MAT2810 Differential Equations 4   | MATH310 Differential Equations 3+1        | <b>TECHNICAL ELECTIVE (Select 1 area; min. 9 credits)</b> 9                                  |
| PHY2400 From above MTA   | PHYS231 From above MTA                    | Vehicle Systems: EGEE280, EGME240, EGME310, EGME415, EGME425, & [EGME442 or EGRS461]         |
| PHY2500 Engineering Physics II 5   | PHYS232 Applied Phy Eng./Scientist II 4+1 | Robotics & Automation: EGRS365, EGRS385, EGRS430, EGRS435, & [3-4 cr Approved Tech Elective] |
| CAD1201 Introduction to Eng. Graphics 4                                  | EGME141 Solid Modeling 3+1                | General: 17 cr Approved Tech Electives, min (2) 400-level; max (2) 200-level                 |
| EGR2100 Statics 3  | EGEM220 Statics 3                         | <i>Approved Tech Electives:</i>  |
| EGR2080 Mechanics of Materials 3   | EGME225 Mechanics of Materials I 3        | EGME 240, 310, 415, 425, 442; EGME 216;  |
| EGR2500 Dynamics 3   | EGEM320 Dynamics 3                        | EGNR 261, 361, 310, 346, 490;  |
| EGR 2700 Engineering Circuits 5  | EGEE210 Circuit Analysis 4+1              | EGRS 305, 325, 372, 375, 385, 430, 435, 461  |
| IST 1800 Manufacturing Processes 3                                       | EGME 110 Manufacturing Processes 3        | EGEE 280, 310, 330, 345, 411   |
| MTT 2300 2D & 3D Computer Aided Machining 4                              | EGMT 216 CAM with CNC Applications 3+1    |  |
| MCT 2000 Industrial Controls 4   | EGRS 325 Industrial Control Systems 3+1   |  |
| B.S. Note: 30 credits from Mathematics and Natural Sciences is required. |   |  |
| <b>APPROX. Oakland CREDITS</b> 84  |   | <b>MIN. LSSU CREDITS</b> 46  |
|  |   | <b>TOTAL CREDITS</b> Min. 128  |

Consultation with an advisor is recommended.

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 LSSU Interim Dean of the College of Business, Engineering,  
 Computer Science & Mathematics

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**Dr. Kimberly Muller** (Date)  
 LSSU Provost & VP of Academic Affairs

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 Oakland Community College Dean of Engineering  
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