

# Lake Superior State University — Transfer Guide

## BAY COLLEGE

Transfer Major:

Bay College A.S. Pre-Engineering  
to  
LSSU B.S. Mechanical Engineering

Contacts:

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Mathematics  
Bay College  
(906) 217-4007 or slades@baycollege.edu

Valid For:

students transferring to LSSU  
Fall 2016 through Fall 2021

Dr. David Baumann, Chair  
School of Engineering and Technology  
Lake Superior State University  
(906) 635-2142 or dbaumann@lssu.edu


| Bay College Courses  | LSSU Equivalency   | Additional LSSU Courses  |
|--|--|--|
| <b>Michigan Transfer Agreement (MTA)</b><br>CHEM-110 General Chemistry I 5<br>ENGL-101 Rhetoric and Composition 3<br>MATH-141 Anal Geometry and Calculus I 3<br>PHYS-205 Engineering Physics I 5<br>XXXX-xxx Communication Elective 3<br>XXXX-xxx Social and Behavioral Science 6<br>XXXX-xxx Humanities Electives 6<br><br><b>Requirements</b><br>CSCI-121 C++ Programming 3<br>ELEC-130 Circuit Fundamentals 4<br>MATH-142 Anal Geometry and Calculus II 5<br>MATH-243 Anal Geometry and Calculus III 5<br>MATH-244 Differential Equations 3<br>MATH-250 Intro to Linear Algebra 3<br>PHYS-206 Engineering Physics II 5<br>PHYS-260 Statics 3<br>PHYS-261 Dynamics 3 | <b>General Education Requirements Met</b><br>CHEM-115 General Chemistry 5<br>ENGL-110 First Year Composition I 3<br>MATH-151 Calculus I 4<br>PHYS-231 Applied Physics I 4<br>XXXX-xxx Communication Elective 3<br>XXXX-xxx Social and Behavioral Science 6<br>XXXX-xxx Humanities Electives 6<br><br><b>Requirements</b><br>CSCI-177 Computer Science Elective 3<br>EGEE-210 Circuit Analysis 4<br>MATH-152 Calculus II 4<br>MATH-251 Calculus III 4<br>MATH-310 Differential Equations 3<br>MATH-305 Linear Algebra** 3**<br>PHYS-232 Applied Physics II 4<br>EGEM-220 Statics 3<br>EGEM-320 Dynamics 3<br><br>Additional Credits Transferred 5<br><br>** not required for BS-ME degree | EGEE-210 Circuit Analysis 4<br>EGME-110 Manufacturing Processes 3<br>EGME-141 Solid Modeling 3<br>EGME-225 Mechanics of Materials 3<br>EGME-275 Engineering Materials 3<br>EGME-276 Strength of Materials Lab 1<br>EGME-350 Machine Design 4<br>EGME-337 Thermodynamics 4<br>EGME-338 Fluid Mechanics 3<br>EGME-431 Heat Transfer 3<br>EGME-432 Thermal Fluids Lab 2<br>Waive EGNR-101 Intro to Engineering<br>EGNR-140 Linear Alg / Num Methods 2<br>Sub CSCI-177 for EGNR-265 C Program<br>EGNR-340 Num Methods for Engineers 1<br>EGNR-491 Engineering Design Project I 3<br>EGNR-495 Engineering Design Project II 3<br>EGRS-460 Control Systems 4<br>MATH-308 Probability and Statistics 3<br>Technical Electives 17-18 |
| <b>TOTAL BAY COLLEGE CREDITS 63</b>  | <b>TOTAL LSSU TRANSFER CREDITS 63</b>  | <b>TOTAL ADDITIONAL LSSU CREDITS 66-67</b>   |

Course schedules and offerings throughout the year are subject to change without notice. Students are expected to work closely with advisors in planning out their academic schedules.

Any student completing the A. S. Pre-Engineering degree at Bay College is guaranteed admission into the B. S. Mechanical Engineering program at Lake Superior State University.

APPROVED BY:

 11/21/16  
 Dr. David Finley, Provost  
 Lake Superior State University (Date)

 12/5/16  
 Dr. Matt Barron, Executive Dean, AS&AS  
 Bay College (Date)