

**Lane Community College
Engineering Transfer**

to


**Oregon Institute of Technology
Bachelor of Science in Mechanical Engineering**

**Articulation Agreement
2013-2014 Catalog**


It is agreed that students transferring from Lane Community College's (LCC) Engineering Transfer program to Oregon Institute of Technology's (Oregon Tech) Bachelor of Science in Mechanical Engineering will be given full credit for all selected courses listed below. This agreement is based on the evaluation of the rigor and content of the general education and technical courses at both LCC and Oregon Tech and is subject to a yearly reevaluation by both schools for continuance. This agreement is dated March 17, 2014.


Baccalaureate students must complete a minimum of 60 credits of upper-division work before a degree will be awarded. Upper-division is defined as 300- and 400-level classes at a bachelor's degree granting institution. Baccalaureate students at Oregon Tech must complete 45 credits from Oregon Tech before a degree will be awarded.


Students are responsible for notifying the Oregon Tech Admissions and Registrar's Office when operating under an articulation agreement to ensure their credits transfer as outlined in this agreement. In order to utilize this agreement students must be attending Lane Community College during the above catalog year. Students must enroll at Oregon Tech within three years of this approval.

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LCC Courses & Oregon Tech Equivalent Credits

Lane Community College Course Number & Title	Qtr. Units	Oregon Institute of Technology Course Number & Title	Qtr. Units
Arts and Letters elective ¹	3	Humanities elective ¹	3
CH 221 General Chemistry 1	5	CHE 201 General Chemistry CHE 204 General Chemistry Laboratory	3 1
CH222 General Chemistry 2	5	CHE 202 General Chemistry CHE 205 General Chemistry Laboratory	3 1
DRF 167 CAD 1	4	MET 242 CAD for Mechanical Design II	2
Economics elective	3	Economics elective	3
ENGR 101 Engineering Orientation	3	MET 111 Orientation I and MET 112 Orientation II (use excess elective credit for credit differential)	2 2
ENGR 102 (199) Engineering Orientation 2	4	ENGR 266 Computer Programming for Engineers	3
ENGR 115 Engineering Graphics	3	MET 241 CAD for Mechanical Design I	2
ENGR 211 Statics	4	ENGR 211 Engineering Mechanics: Statics	4
ENGR 212 Dynamics	4	ENGR 212 Engineering Mechanics: Dynamics	3
ENGR 213 Strength of Materials	4	ENGR 213 Engineering Mechanics: Strength of Materials	4
ENGR 221 Electrical Fundamentals 1	4	ENGR 236 Fundamentals of Electrical Circuits	3
MTH 251 Calculus 1	5	MATH 251 Differential Calculus	4
MTH 252 Calculus 2	5	MATH 252 Integral Calculus	4
MTH 253 Calculus 3	4	MATH elective (Does not count toward degree) ²	--
MTH 254 Vector Calculus 1	4	MATH 254N Vector Calculus I	4
MTH 256 Applied Differential Equations	4	MATH 321 Applied Differential Equations I ³	4
MTH 265 Statistics for Scientists and Engineers	4	MATH 361 Statistical Methods I ³	4
PH 211 General Physics w/Calculus	5	PHY 221 General Physics with Calculus	4
PH 212 General Physics w/Calculus	5	PHY 222 General Physics with Calculus	4
PH 213 General Physics w/Calculus	5	PHY 223 General Physics with Calculus	4
Social Science elective ⁴	9	Social Science elective ⁴	9
SP 111 Fundamentals of Public Speaking	3	SPE 111 Public Speaking	3
SP 219 Small Group Discussion	4	SPE 321 Small Group & Team Communication ³	3
WR 121 Introduction to Academic Writing	4	WRI 121 English Composition	3
WR 122 English Composition: Argument, Style and Research	4	WRI 122 Argumentative Writing	3
WR 227 Technical Writing	4	WRI 227 Technical Report Writing	3
Total LCC Credits ²	115	Total Oregon Tech Degree Credits ²	95

In addition to the above courses, the courses listed below are also required for the Bachelor of Science in Mechanical Engineering and should be completed at Oregon Tech.

Oregon Institute of Technology Course Number & Title	Qtr. Units
ENGR 355 Thermodynamics	3
ENGR 485 Fundamentals of Engineering Exam	1
HUM 125 Introduction to Tech, Soc, and Values	3
MATH 341 Linear Algebra I	4
MATH 451 Numerical Methods I	4
MECH 313 Thermodynamics II	3
MECH 315 Machine Design I	3
MECH 316 Machine Design II	3
MECH 318 Fluid Mechanics I	4
MECH 323 Heat Transfer I	3
MECH 351 Finite Element Analysis	3
MECH 360 Materials II	3
MECH 363 Instrumentation	3
MECH 417 Fluid Mechanics II	3
MECH 436 Applied Control Systems	3
MECH 437 Heat Transfer II	2
MECH 480 Vibrations	3
MECH 490 Senior Project I	3
MECH 491 Senior Projects II	3
MECH 492 Senior Projects III	3
MECH Electives	9
MET 160 Materials I	3
MET 326 Electrical Power Systems	3
MET 375 Solid Modeling	3
MFG 103 Introductory Welding Processes	3
MFG 120 Manufacturing Processes I	4
MFG 314 Geometric Dimensioning and Tolerancing	3
MGT 345 Engineering Economy	3

PHL 331 Ethics in the Professions	3
WRI 327 Advanced Technical Communication	3
Additional Oregon Tech Credits ⁵	97
Total Oregon Tech Degree Credits ⁶	192

1. In addition to HUM 125, and PHIL 331 students must take 3 credits of Humanities electives (Arts & Letters). **Activity or performing based humanities courses are not accepted.** Choose from ART, ENG, FA, HUM, MUS, PHL, and REL prefixes or other courses designated as Humanities electives by the Oregon Tech Registrar's Office.
2. Excess credits will transfer to Oregon Tech as general elective credit; these credits will **not** be used toward the Bachelor of Science in Mechanical Engineering Degree.
3. Does not count toward 60 upper-division credit requirement
4. In addition to an Economics elective, 9 credits of Social Science electives are required. Choose from ANTH, ECON, ES, HST, PS, PSY, SOC and WS prefixes or other courses designated as Social Science electives by the Oregon Tech Registrar's Office.
5. Baccalaureate degree students must complete a minimum of 60 upper-division work before a degree will be awarded. Upper-division is defined as 300- and 400-level classes at a bachelor's degree granting institution and 45 credits must be from Oregon Tech. At least 50 credits of technical course work must be taken from an ABET accredited Baccalaureate Mechanical Engineering program.
6. Oregon Tech's Bachelor of Science in Mechanical Engineering requires 192 total credits.