Lane Community College SM

2011 - 2012
Transfer Planss

Mathematics Division
541.463.5392

lanecc.edu

Engineering Transfer

This transfer plan is for students interested in pursuing a bachelor's degree in engineering. A transfer plan is not the same as a state-approved vocational program in which a student earns a degree or certificate with a vocational major issued by the Lane Board of Education.

Lane Community College offers the first two years of college core science, engineering, and general education courses needed for most engineering major disciplines. The course of study shown below includes lower division general education requirements needed for a degree at a state university in Oregon. Certain engineering disciplines may require additional courses that are not offered at Lane. See one of Lane's Engineering advisors for more information.

Most Lane engineering students transfer to Oregon State University (OSU), but many have continued successfully at other well-known professional schools. Students who wish to complete all of the lower division general education requirements for OSU before they transfer may wish to consider earning an Associate of Science (AS) degree or an Associate of Arts Oregon Transfer (AAOT) degree while at Lane. In addition to the OSU general education and engineering core requirements, only a few additional credits are required to earn the AS or AAOT degree from Lane. See Lane's Engineering academic advisor or counselor for more information.

At the earliest opportunity, an interested student should meet with one of Lane's Engineering advisors. Most engineering courses at Lane are offered only once each academic year, and they must be taken in sequence. A well-planned course of study at Lane is essential to ensure a smooth transition to a university. In addition, it is very important for a transfer student to consult the engineering advisor at the specific intended transfer university.

See the mathematics and science division counselors or advisors for assistance in term-by-term schedule planning and for answers to questions about transfer requirements of various universities.

Associate of Science (AS) and Associate of Arts Oregon Transfer (AAOT) degree plan for Engineering Transfer students:

The following three-year plan for Engineering students satisfies the requirements for an Associate of Science degree or the Associate of Arts Oregon Transfer degree from Lane Community College, including all required engineering courses and all necessary general education courses. Additionally, these general education courses will satisfy all of the lower division general education requirements for graduating from Oregon State University. Requirements can change, so it is critical that you see one of Lane's engineering advisors for assistance in choosing these specific courses to ensure that they meet both Lane and OSU requirements.

Note Students who are prepared to begin Calculus in their first year: should substitute MTH 251, 252, and 253 (Calculus 1,2,3) for the mathematics courses listed in the First Year plan below. These students can complete the requirements for either the AS or AAOT degree in two years by adding one or two summer terms to their course plans. Students should consult with Lane's engineering academic advisor or counselor for assistance in course planning.

Transfer Plan for Engineering students who want to earn an Associate of Science degree or AAOT degree at Lane

First Year	**Fall**
MTH 111 College Algebra *	5
WR 121 Introduction to Academic Writing *,1,G	4
HE 275 Lifetime Health and Fitness[4]	3
Arts and Letters requirement (for AS or AAOT)[3,4]	3-4
Total Credits	15-16

	Winter
MTH 097 Geometry *	4
CH 221 General Chemistry 1 *,1,G	5
Social Science requirement (for AS or AAOT) [3,4]	3-4
Total Credits	12-13

	Spring
MTH 112 Trigonometry *	4
CH 222 General Chemistry 2 *,2,G	5
WR 227 Technical Writing *,1,G	4
Total Credits	13

Engineering Transfer

Second Year	**Fall**
MTH 251 Calculus 1 *,1,G	5
ENGR 101 Engineering Orientation *,2,G	3
Social Science requirement (for AS or AAOT)[3,4]	3-4
Choice of:	4
SP 111 Fundamentals of Public Speaking 1,G	
SP 112 Persuasive Speech 1,G	
Total Credits	15-16

	Winter
MTH 252 Calculus 2 *,1,G	5
PH 211 General Physics w/Calculus *,1,G	5
ENGR 102 (199) Engineering Orientation 2 *,1,G	3
Total Credits	13

	Spring
MTH 253 Calculus 3 *,1,G	4
MTH 261 Linear Algebra *,1,G	2
PH 212 General Physics w/Calculus *,1,G	5
ENGR 115 Engineering Graphics *,1,2,G	3
Total Credits	14

Third Year	**Fall**
MTH 254 Vector Calculus 1 *,1,G	4
ENGR 211 Statics *,1,G	4
PH 213 General Physics w/Calculus *,1,2,G	5
Social Science requirement (for AAOT degree)[4] or Elective (for AS degree)[3]	3-4
Total Credits	16-17

	Winter
ENGR 221 Electrical Fundamentals *,1,G	4
Biological Science requirement (for A.S. degree) [3] or Arts & Letters requirement (for AAOT degree)[4]	3-4
MTH 265 Statistics for Scientists and Engineers *,2,G	4
Choice of:	4
MTH 255 Vector Calculus 2 *,1,2,G	
ENGR 213 Strength of Materials *,2,G	
Total Credits	15-16

	Spring
MTH 256 Differential Equations *,1,G	4
ENGR 212 Dynamics *,1,2,G	4
Social Science requirement (for AS or AAOT) 3,4	3-4
Arts and Letters requirement (for AS or AAOT)[3,4]	3-4
Total Credits	14 -16

* Prerequisite required

1 Will be used to meet requirements for OSU Engineering Core GPA. Must earn a grade of "C" or better, not P/NP. (OSU will not accept "C-".)

2 Required for graduation in specific engineering majors. Must earn a grade of "C" or better, not P/NP. (OSU will not accept "C-".)

3 See AS degree requirements for approved courses; and see Math/Engineering academic advisor for course selection assistance.

4 See AAOT degree requirements for approved Health, Arts and Letters and Social Science courses. All AAOT degree courses must be completed with a minimum grade of C-. One Arts and Letters or Social Science course must also satisfy the AAOT Cultural Literacy requirement. See Math/Engineering academic advisor for course selection assistance.

G Must be taken for a grade, not P/NP