



Mathematics Division

Lane Community College

January 13, 2016

Overview

- 16 full-time faculty, 45 part-time instructors, 3 administrative staff, and dean
- 7 engineering courses, 12 developmental math courses, and 20 college math courses
- Enrollment in 2014-2015: 141 Engineering (7 sections), 9,292 Math (196 developmental, 96 college), 9,433 total students
- Specialized math classes developed by request for culinary, health sciences, advanced technology, and computer networking

Recent Innovations

- Expansion of online sections from 20 in 2011-2012 to 44 in 2014-2015
- Began using Accuplacer Placement Test in 2015
- Expanded outreach to high schools: College Now, meeting with visiting students, and Math Skills Fair
- New specialized course: Math for Network Operations, and a recent interest in developing a class for students in Sheet Metal program

Engineering Program

Designing trebuchets to launch marshmallows in the math hallway



Engineering Program

- Students complete first two years of engineering at Lane
- Transfers to OSU can finish in two more years
- Success rate is equal to other OSU engineering students
- Many Lane graduates work as engineers, some locally
- We are working to increase enrollment, with ENGR 102 expanding from 31 students in 2015 to 51 students in 2016
- Angela Martinek, engineering lead, is a member of the Churchill Engineering Academy Steering Committee

Math 98, Math Literacy

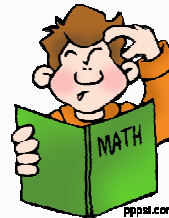
Not all students love math!

New pathway for non-STEM students

How can we shorten the pathway for these students?

MTH 20-98-105 instead of
MTH 20-60-65-95-105

Part of a nationwide movement to meet these students' needs



Math 98, Math Literacy

- Content is aligned with other Oregon community colleges, focused on practical, contextualized math
- HECC approved it in spring, 2015 as acceptable prerequisite for MTH 105 in AAOT degree
- Enrollment has grown from 2 sections per term in 2014-2015 averaging 27 students each to 3 sections per term in 2015-2016, averaging 30 students each
- Success rate in MTH 105 averages 75% for these students, compared to 83% for those coming from MTH 95

Math Resource Center

- Students sometimes need help with their math



Math Resource Center

- Popular, well-used center to receive math tutoring
- Student usage in 2013-2014 was over 1,000 student hours
- Testing services provided for many classes, increasing with more online classes
- Tutors are students, part-time employees, and full-time math faculty
- Some math classes are available here on a variable credit basis
- Students often comment on how valuable this resource is to their success

Faculty to help with questions

Angela Martinek, Math Faculty and Engineering lead

Jessica Knoch, Math Faculty and MTH 98 course developer

Kristina Holton, Math Faculty and Math Resource Center director