



Engineering Program Lab Technician Needs 11/21/24

Engineering Program: Mission and Impact to College

1) Engineering is primarily a Transfer Program

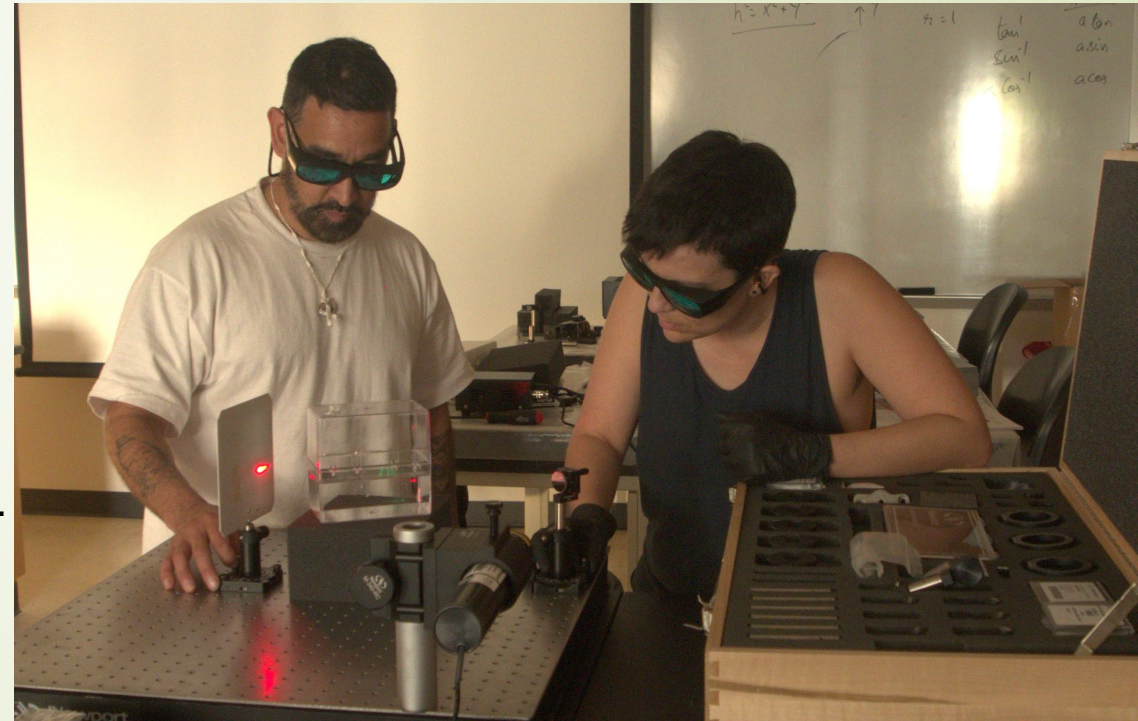
- Learning is heavily collaborative and hands-on, like the field!

2) Program Contributes to various College goals..

- Student Access
- Accessible Infrastructure and Innovation
- Equity

3) Program Contributes to various Strategic initiatives..

- Connect students to academic programs they need
- Supports innovative teaching
- Be best college choice for local students



Engineering : Lab Classes and Students Served

- Total # of Engineering Classes (8)
 - 100, 210, 215, 230, 240, 260, 261, 270
- Classes with Lab Component (5)
 - 100, 210, 215, 261, 270



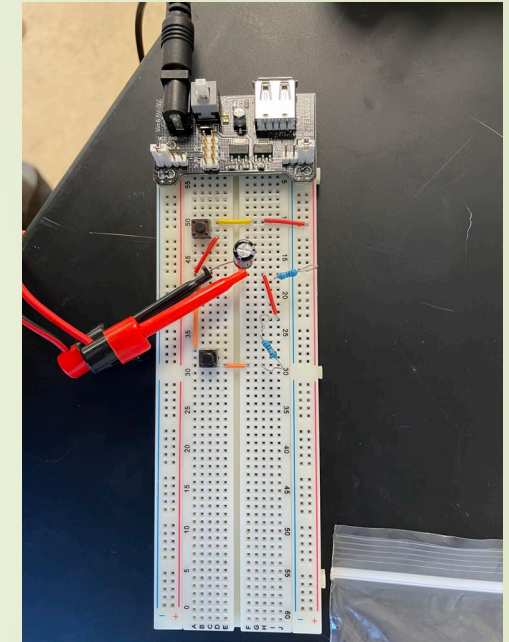
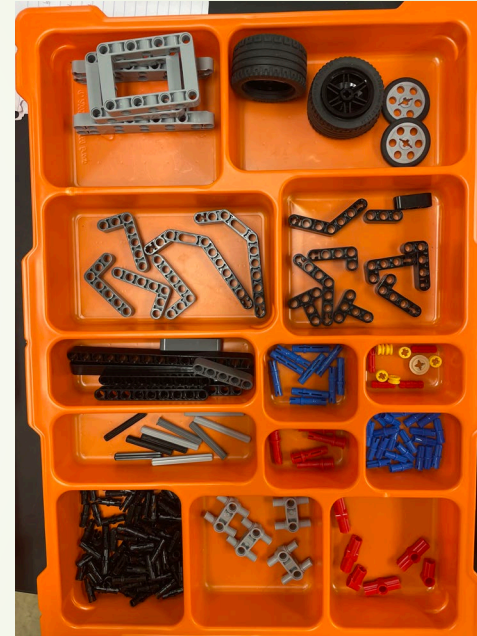
Headcount of students from AY 19-23 (4 years)		
Lab Class	# Students	Type of labs
ENGR 100	378	Robotics + variety
ENGR 210	112	3D printing
ENGR 215	84	Computer lab
ENGR 261	63	Electronics
ENGR 270	60	Materials testing

ENG labs served ~700 students over past 4 years

Current approach to operating Engineering Labs

Currently engineering faculty do all work, including:

- Maintains Lab equipment
- Software selection and installation
- Materials inventory and ordering
- Kit preparation
- Laboratory and technical manual updates



Desired Engineering Lab Tech Responsibilities

- 1) Maintain list of consumables needed
 - Order as needed
- 2) Update lab computers/software as needed working with ITS
- 3) Prepare kits for various classes at start of semester
 - Robotics, electronics
- 4) Maintain lab apparatus
 - 3D printers, materials testing machines

Currently All items done by Instructor(s)

