

EXPERIENTIAL LEARNING AND APPLYING OR IN HEALTHCARE

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CENTER FOR
HEALTHCARE ENGINEERING & PATIENT SAFETY
UNIVERSITY OF MICHIGAN

CHEPS: OUR MISSION



**FOSTER
LEARNING**

Providing experiential learning opportunities for students, faculty, and practitioners from across the campus and beyond



**INNOVATE HEALTHCARE
DELIVERY**

Bringing together teams from across a wide spectrum of disciplines to make an impact by solving complex real-world healthcare problems



**BUILD
COMMUNITY**

Nurturing a vibrant and diverse community of individuals working, learning, and having fun together



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THINGS WE DO REALLY WELL IN ACADEMIA

- **Teaching technical content**
 - We teach students a tool
 - We have them demonstrate mastery of that tool

THINGS WE DO PRETTY WELL IN ACADEMIA

- **Teach our students to**
 - Know what tool to use when
 - Synthesis (e.g. senior design/capstone)
 - Communicate with other engineers

THINGS WE DO NOT SO WELL IN ACADEMIA

- **Teaching our students:**
 - Problem scoping and identification
 - How to deal with uncertainty and ambiguity
 - How to communicate with non-engineers
 - When to settle for a B- instead of striving for an A+

EXPERIENTIAL LEARNING AT CHEPS

- How we do it
- Why it's helpful to not be for credit
- Why it's helpful to pay all of our students

EXAMPLE FROM ROGEL CANCER CENTER

Patient scheduling ->

Plebotomy ->

Pharmacy ->

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KEY TAKE-AWAYS

- **It's a LOT of work!**
 - High start up costs
 - High touch
 - But we can make it easier by developing processes and standards, and building mentorship hierarchies
- **It's incredibly rewarding!!!**