

Jack Phillips

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Education

University of Michigan, Ann Arbor, MI Expected May 2025

- Chemical Engineering, B.S.E.; Minors: Economics, Chemistry
- 3.895 GPA - 2022 Branstrom Freshman Prize Recipient (top 5% of class), Dean's List (x3)
- Coursework: Organic Chemistry I and II with labs, Calculus I-IV, Material and Energy Balances, Fluid Mechanics, Principles of Engineering Materials, Micro/Macroeconomics

Work Experience

University of Michigan E100.350 (Engr Biological Solutions) Instructional Aide Jan. 2023 - Present

- Supervised weekly lab sessions to assist students in lab procedures and ensure lab safety
- Supported student learning of course material through office hours, homework/exam grading, and offering insight to instructors from previous student perspective

Polymer Surfaces Institute Undergraduate Researcher Sep. 2022 - Present

- Investigated relationship between hydrophilic/oleophobic membrane fouling duration and resulting filtration flux to assess viability of membrane-based liquid separation at bench-scale
- Optimized standard operating procedure for hydrophilic/oleophobic membrane fabrication, increasing uniformity of membrane properties and selective wettability
- Enhanced proficiency in experimental techniques of vapor silanization and flux measurement

University of Michigan Science Learning Center Study Group Facilitator Sep. 2022 - Present

- Encouraged collaboration and group problem solving between groups of ~12 undergraduate students taking Organic Chemistry I and II, resulting in better comprehension of course material
- Developed problem sets and study materials adapted for unique student needs

JCPenney Customer Service Associate Jun. 2019 - Nov. 2020; May 2022 - Aug. 2022

- Performed customer merchandise returns, processed online orders, and maintained cleanliness and welcoming atmosphere of the store
- Trained new employees for omni-associate/cashier positions
- Collaborated with merchandising team to aid in proper item ticketing and inventory management

Community Involvement

UM Engineering Common Reading Experience Facilitator - 16 hours of service Aug. 2022 - Present

- Organized book-based discussion amongst groups of ~15 first-year engineering students to offer insight to social and societal implications of engineering
- Reduced new student anxiety by sharing personal experiences and encouraging conversations

Blood Drives United Volunteer - 25 hours of service Jan. 2022 - Present

- Processed blood drive check-ins and communicated relevant information to patients/nurses
- Monitored groups of post-donation patients to ensure safety; distributed snacks/beverages