William M. Culhane III

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https://wculhane.com

EDUCATION

Montana State University — Honors College August 2019 – Present

- Dual: B.S. Chemical Engineering & B.S. Computer Engineering (3.80 GPA)
- Expected graduation: May 2024
- Member of: Running Club (Treasurer), MSU Chapter of the American Institute of Chemical Engineers (AIChE)

- Fluid Mechanics Operations
- Thermodynamics I
- Heat & Mass Transfer Operations
- Reactor Design*
- Bioprocess Engineering
- Process Dynamics and Control*
- Photovoltaic Systems
- Honors College Chemistry I-II
- Honors Organic Chemistry I-II
- Fundamental Analytical Chemistry
- Physical Chemistry II
- Honors Economics
- Data Structures and Algorithms*
- Programming with C
- Logic Design
- Microprocessor Hardware and Software Systems
- Operating Systems*
- SoC FPGAs I-II

* Course in progress

Full course list available at https://wculhane.com/courses.html

EXPERIENCE

Undergraduate Researcher — Chang Soft Matter and Microfluidics Lab September 2021 — Present
Manufactured silicon masters for microfluidic devices using photolithography and assembled PDMS devices for cell culturing and research applications in BSL-2 environment. Worked on project to automate sampling of bioreactor effluent using microfluidic demultiplexing.

Lab Worker — Seed Testing and Malt Quality Labs August 2020 — April 2021
Operated lab equipment, processed seed samples, recorded data associated with samples and coordinated with others in a shared lab space to finish tasks more efficiently.

Boise Philharmonic Volunteer March 2016 — May 2019
Volunteer for the Boise Philharmonic as an officer in the Debs and Phils program. Handled the program's social media presence, organized volunteers for events, tracked personal and payment information for all members of the program, and allocated volunteers to different tasks during events.

AWARDS

Dean's List Fall 2019, Spring & Fall 2020, Spring & Fall$^+$ 2021, Spring$^+$ 2022
Named to the MSU Dean's List every semester at MSU, indicating a GPA above 3.5 for each individual semester.

National Merit Scholar August 2019
Selected for National Merit Scholarship as part of top 0.5 % of high school students in the class of 2019, based on standardized test scores, extracurricular achievements, and academic performance.