



CHARLIE PAPAZIAN BREWING EDUCATION LAB

Honoring Charlie's Legacy in the Beer Industry

Smithsonian Magazine called Charlie Papazian "the schoolteacher who sparked America's Craft Brew Revolution." A teacher at heart, Charlie remembers the early days of teaching home brewers sitting on the floor of his living room in Boulder, Colorado. It's only fitting that – located down the road from his home – Metropolitan State University of Denver plans to honor his contributions to the world of beer while educating the industry leaders of tomorrow by naming its new brewing laboratory, The Charlie Papazian Brewing Education Lab. Your generous support will help MSU Denver make this vision a reality.



Blending the Art and Science of Brewing with Critical Business Skills



Housed in the School of Hospitality and supported by the One World One Water Center and the biology and chemistry departments, MSU Denver's **Brewery Operations bachelor's degree program** blends the art, engineering and science of brewing beer with the hands-on skills and operational knowledge necessary to work in the constantly changing alcoholic beverage market.

This program allows graduates to find success in this exciting and challenging field by ensuring they are workforce-ready and prepared to:

- Join a brew deck.
- Run a packaging line.
- Work in quality control and analysis labs.
- Become part of a sales and marketing team.
- Work at a Distributor.
- Rise through the ranks of management and leadership in the beer and beverage industries.
- And more.

New 3.5 bbl Professional Brewing Lab

The <u>Beverage Analytics QA/QC Lab</u> currently serves as:

- A teaching space where students learn to brew on a 10-gallon Ruby Street brewing system.
- A fee-for-service laboratory run in partnership with the Siebel Institute.
 - Run by a TTB-certified chemist.
 - Provides information for brewers who lack access to sophisticated equipment like gas chromatographs and alcolizers, or the capability to perform advanced techniques such as cellular enumeration, culturing, PCR or bioinformatics.

The new brewing lab will improve student's real-world experience with:

- A 3.5 bbl pilot system built by <u>Forgeworks</u>, producer of hand-built, customized brewing systems.
- A three-vessel system set on a platform, including a gas-fired Kettle/Whirlpool, Mash/Lauder Tun and Hot Liquor Tank.





Impact of the New Papazian Brewing Lab

The new brewing lab will benefit students, the University and the brewing industry by:

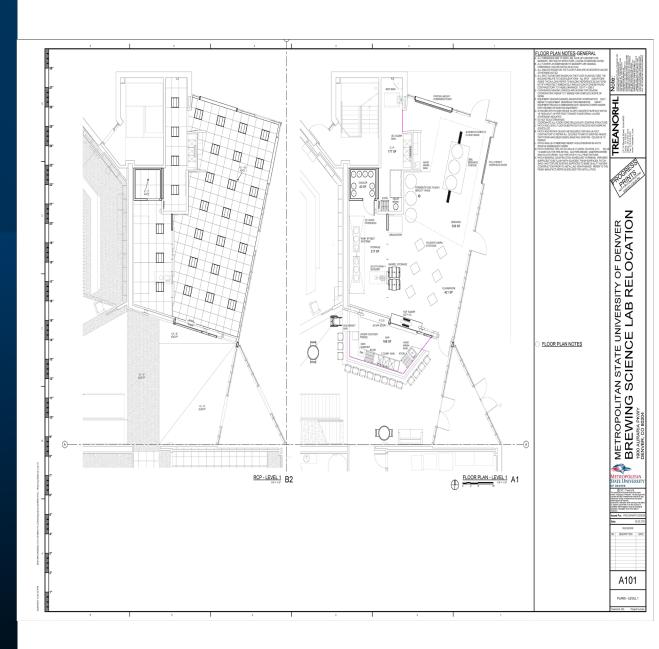
- Moving the existing 15-gallon Ruby Street brewing system and adding a 3.5 bbl brewhouse and fermentation vessels for improved real-world experience.
- Expanding bar seating at <u>Degree</u> located in the attached, University-owned SpringHill Suites. Hotel guests, visiting brewers, students 21+, the community and beer enthusiasts will:
 - Have access to an informal tasting panel of studentbrewed beer.
 - Provide sensory feedback on the taste and quality of the product based on a formal sensory program developed by students in the Sensory Quality Analysis for Beer course.





Architectural Plans for New Papazian Lab and Bar





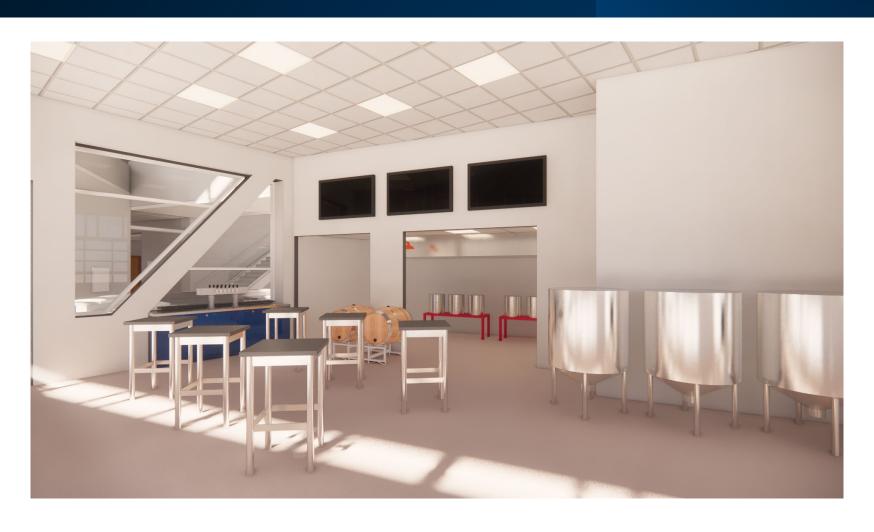
Platform for New 3.5 bbl Brewing System





Classroom Area for Brewing Classes





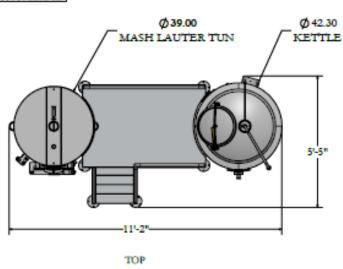
Schematic of the New Brewing System

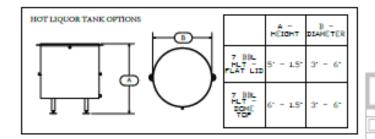




3.5 BBL BREWHOUSE STANDARD FOOTPRINT

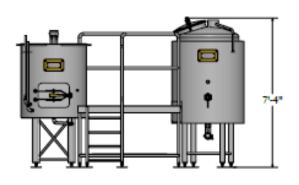
ALL DIMENSIONS, PORTS AND FEATURES ARE CUSTOMIZABLE.







ISO

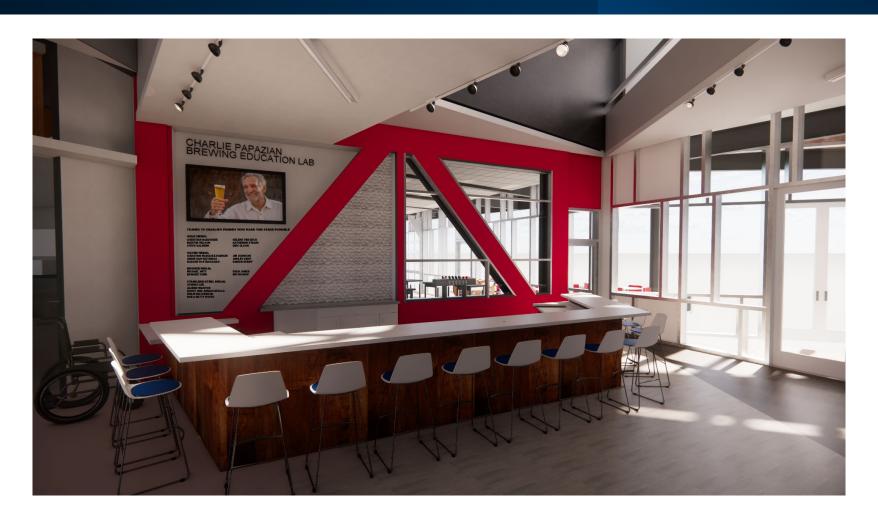


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New Bar Tasting Area





Partnering with Tivoli Brewing Company

The Brewery Operations Program works closely with on-campus, independently owned Tivoli Brewing Company. Founded in 1859 and revived in 2012, the current brewery and taproom sit under 250 bbl copper kettles installed in the 1880s. Students have access to the 30 bbl brewing and packaging center through internships, classroom experiences and site visits.

The program leverages over 40 different partnerships across Colorado's beer and hospitality industries, providing MSU Denver students with opportunities unmatched by other national and international programs.



Tivoli Brewing Company



Invest in "Charlie's Lab" and Make a Difference



With partners like you, we are building a bright future for our students and advancing the beer industry. Honor the legacy of a changemaker in the industry and support the next generation of brewers by making a gift to the Charlie Papazian Brewing Education Lab.

Giving levels include:

• \$100,000+ Gold Medal

\$50,000 Silver Medal

\$25,000 Bronze Medal

• \$10,000 Stainless Medal

We are dedicated to working with you to recognize your generosity in a way that is meaningful to you. Donors of \$10,000 or more will be recognized with their names listed under Charlie's picture behind the bar.

Colorado Enterprise Zone Tax Credit

Charitable gifts to the Charlie Papazian Brewing Education Lab qualify for the Colorado Enterprise Zone tax credit. Donors are eligible to receive an income tax credit of 25% for cash contributions and 12.5% for in-kind contributions (which includes securities), which is over and above standard deductions.

Click <u>here</u> for more details on the significant out-of-pocket savings this credit provides Colorado income taxpayers, in some cases up to 45%. The Enterprise Tax Zone is only available during the calendar year of 2022 for this project.

Ways to Give

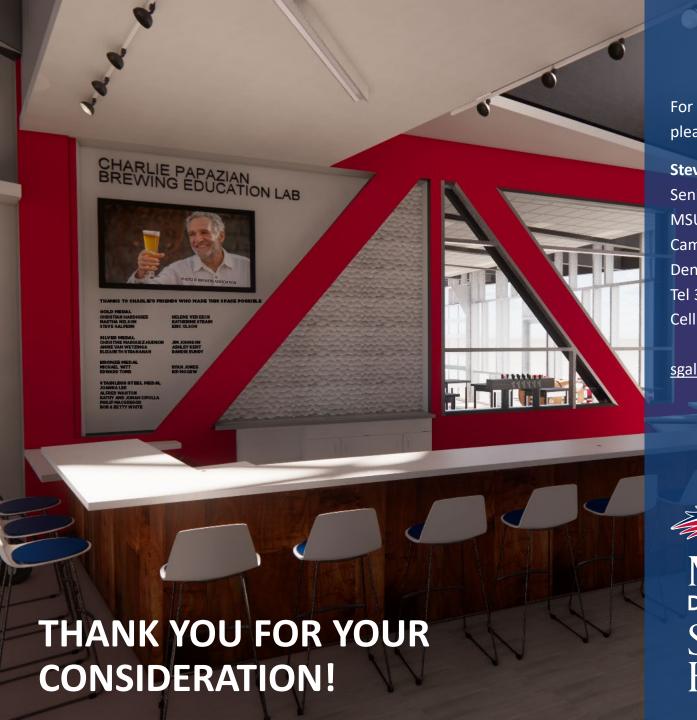
Donations to name The Charlie Papazian Brewing Education Lab are tax-deductible through the MSU Denver Foundation, which is recognized as a 501(c)(3) tax-exempt organization under the Internal Revenue Code. Gifts can be paid over a five-year period. Funds will be used to build the new lab, for future maintenance and repair (to keep it a condition that its namesake deserves) and to support the Brewery Operations program.

Gifts can be in the form of cash, stock, securities or IRA charitable roll-overs.

Please send all checks to:

MSU Denver Foundation Campus Box 14, PO Box 173362 Denver, CO 80217-3362

To give online, please click here.



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