

## Brewing Program Prerequisite Fulfillment

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To be eligible for acceptance to the [UC San Diego Extension Professional Certificate in Brewing](#), and to enroll in any of the required courses for the Certificate, **students must have adequate preparation in mathematics, and at least two areas of science and/or engineering.** If you have not fulfilled these prerequisites, please see the following list for options (press CTRL and click to open), or feel free to research local or online options as well.

**Mathematics:** pre-calculus, i.e. the most advanced mathematics course before a calculus course may be taken

- [Mathematics Classes](#) (San Diego Mesa College)
- [Mathematics Classes](#) (San Diego Miramar College)
- [Mathematics Course Catalog](#) (Palomar College)
- [Mathematics Course Catalog](#) (Cuyamaca College)
- [Mathematics Course Catalog](#) (Southwestern College)

**And relevant preparation in at least two of these areas:**

**Biological sciences:** microbiology, cell physiology or biochemistry

- [Cell and Molecular Biology](#) (UC San Diego Extension)
- [Introduction to Molecular Biology](#) (UC San Diego Extension)
- [Biology Classes](#) (San Diego Mesa College)
- [Biology Classes](#) (San Diego Miramar College)
- [Biological Sciences Course Catalog](#) (Palomar College)
- [Biological Sciences Course Catalog](#) (Cuyamaca College)
- [Biology Course Catalog](#) (Southwestern College)

**Chemistry:** organic, inorganic or analytical

- [Introduction to Biochemistry](#) (UC San Diego Extension)
- [Analytical Chemistry](#) (UC San Diego Extension)
- [Chemistry Classes](#) (San Diego Mesa College)
- [Chemistry Classes](#) (San Diego Miramar College)
- [Chemistry Course Catalog](#) (Palomar College)
- [Chemistry Course Catalog](#) (Cuyamaca College)

**Physics:** heat and mechanics or process control

- [Physics Classes](#) (San Diego Mesa College)
- [Physics Course Catalog](#) (Palomar College)
- [Physics Course Catalog](#) (Cuyamaca College)

**Engineering:** topics in mechanical or chemical engineering

- [Introduction to Chemical Engineering](#) (UC San Diego Extension)
- [Elements of Mechanical Engineering](#) (UC San Diego Extension)
- [Engineering Classes](#) (San Diego Mesa College)
- [Engineering Course Catalog](#) (Palomar College)
- [Engineering Course Catalog](#) (Cuyamaca College)