

Chemistry, Fermentation Sciences, BS

This is a different major from [FER vs CHE: Fermentation Science concentration](#)

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Placement Exams for the Major:

Please note that all tests below are timed tests that can only be attempted once. Please take a moment to prepare. For the Math, and Calculus Placement Tests, please make sure your calculator has fresh batteries or is fully charged. During the test, please turn off all distractions.

1. [Math Placement Test](#)- Only if your SAT MAT was less than 550 or your ACT MAT was less than 22. Take this online placement test as soon as possible and prior to registering for classes. If you don't pass the Math Placement Test with a score of 10 or higher, then register for MAT 1001.
 - a. Check your Mountaineer Portal to see if App State has received your scores.
2. [Calculus Readiness Test](#) - You must take Calculus (MAT 1110) for this major and therefore need to take this test regardless of your SAT or ACT score.

First-Year Student Course Recommendations:

1. RC 1000 or UCO 1200 if there are seats available. If not, it's fine to take both classes in the spring semester.
2. Enroll in **MAT 1110** if you successfully passed the Calculus Readiness test with a score of 12 or greater; You earned a score of 0-11 enroll in **MAT 1025** (see Math Placement note above). ++
3. Enroll in **CHE 1101 & CHE 1110**
 - a. [How to Register for Chemistry.](#)
4. Enroll in a General Education (aka Gen Ed) course*
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[Having trouble registering?](#)

- Review the [Student Self-Service Guide](#) for Registration instructions and videos.
- If the courses above are closed, [add yourself to waitlists](#).
- Then add appropriate classes from page 2 of the [2025-2026 Checksheet](#) until you have registered for 12-15 total hours.
- Use the [Gen Ed Requirements in the Bulletin](#) to look up Gen Ed course descriptions.
- Use this [Course Prefixes/Subjects list](#) to know which subject to choose in the Class Search in AppalNet.
- Rewatch the [Gen Ed video in PREP](#) to better understand the Categories and Designations components of Gen Ed.
 - All English Literary Studies: ENG xxxx (LS) designation courses have a prerequisite of R C 1000, First Year Writing (R C = Rhetoric & Composition.)
- BOONE CAMPUS students: Here is a [color-coded 2-page General Education checksheet](#) (updated 3x/day) that shows which Boone Campus Gen Ed classes have open seats.

Alternative Courses for Your First Semester:

Can't get into the classes above? Try these:

- BIO 1801 (4 hrs; lecture and linked lab)
- FER 2000 (1 hr)
- 1-2 credit hours of Wellness Literacy
- A [Foundations of American Democracy \(FAD\) course](#) **unless** you've already met this requirement (check DegreeWorks).
- Enroll in an additional Gen Ed Course*

*Please plan for your Fine Arts (FA), Historical Studies (HS), Literary Studies (LS) and Social Science (SS) designations appropriately. If you want to, you can plan for your Foundations of American Democracy (FAD) degree requirement (indicated by a  symbol on the [2025-2026 General Education Program of Study](#)) to count toward three requirements: i.e. FAD, SS, and HUM.

++If you feel that you would benefit from an additional math support class, you can also register for 1 of these ELECTIVES

- i. MAT 1530: CALCULUS I SUPPORT (1 hrs)
- ii. MAT 1535: PRECALCULUS SUPPORT

Have you built a 14-16 hour schedule using the classes above?

Are you looking for a class to help you build your skills to be successful in college and help you adjust to college life? Check out these elective courses: [College Success Seminar](#) and [Academic Success Courses](#).

Laura Newmark 4/10/25