



ADVANCED LABORATORY PRACTICES CERTIFICATE, EMBEDDED IN BIOMANUFACTURING A.A.S

The following plan is for students matriculating in or before the academic year **2023-2024**

This suggested sequencing plan is provided as a courtesy. The official degree requirements sheet is used to determine eligibility for graduation.

For official degree requirements visit <https://osuokc.edu/academics/degrees>

The sequence below is designed for completion within one year; not following the sequence may delay certificate completion as well as progression through A.A.S. in Biomanufacturing degree.

Some courses are not offered every semester, as noted on the plan below.

YEAR 2				FALL (17 hours)	
CHEM 1315	General Chemistry I			<i>Prerequisites: MATH 1483 or 1513, CHEM 1104 or High School Chemistry</i>	
ENGL 1213	English Composition II			<i>Prerequisite: ENGL 1113</i>	
or ENGL 2333	Introduction to Technical Report Writing			<i>Prerequisite: ENGL 1113</i>	
BMFT 2254	Downstream Laboratory Operations			<i>Prerequisites: BIOL 1303, BIOL 1311</i>	
BMFT 2203	Bioreactors and Cell Culture	1st 8-weeks FA ONLY	<i>Prerequisites: BIOL 1303, BIOL 1311, BMFT 1002</i>		
BMFT 2232	Cell Harvesting	2nd 8-weeks FA ONLY	<i>Prerequisites: BIOL 1303, BIOL 1311</i>		
				SPRING (3 hours)	
BMFT 2273	Chromatography			<i>Prerequisite: CHEM 1315</i>	
Note: Students may choose to begin working on Laboratory Quality Certificate as they are completing Advanced Laboratory Practices in spring semester.					

Total Hours: 20

ADDITIONAL GRADUATION REQUIREMENTS

- 2.0 Graduation/Retention GPA
- 15 credit hours earned in residence at OSU-OKC
- Students must complete the prerequisite course with a grade of 'C' or better to advance to the next course in the required sequence

LEGEND

- [R] Reading Proficiency/Placement
- [W] Writing Proficiency/Placement
- [M] Math Proficiency/Placement
- FA = Fall SP = Spring SU = Summer