

**LABORATORY QUALITY****Embedded Certificate****Degree Sheet**

2026-2027 Catalog

<b>General Education Courses</b>			<b>9 Credit Hours</b>	<i>Credit Hours</i>	<b>Prerequisites</b>
<i>Select One:</i>				3	[M]
MATH	1483	Mathematical Functions and Their Uses (A)			
MATH	1513	Precalculus I (A)			
<i>Select One:</i>				3	[R] [W]
HIST	1483	U.S. History to 1865 (S)			
HIST	1493	U.S. History since 1865 (S)			
POLS	1113	American Government (S)		3	[R] [W]
<b>Support and Related Courses</b>			<b>4 Credit Hours</b>		
CHEM	1154	General, Organic and Biochemistry (LN)		4	[R] [M]
<b>Technical Occupational Specialty</b>			<b>19 Credit Hours</b>		
BMFT	1102	Basic Laboratory Operations		2	[R] [W]
BMFT	1113	Introduction to Laboratory Management		3	BIOL 1303, 1311, BMFT 1002
BMFT	2254	Downstream Laboratory Operations		4	BIOL 1303, 1311
BMFT	2302	Current Practices in Biomanufacturing		2	
BMFT	2332	Regulatory Compliance in Biomanufacturing		2	
BMFT	2353	Advanced Laboratory Management		3	
BMFT	2373	Industry Practicum		3	Department Head Approval

**Total to Graduate 32**

*The courses in this certificate program are included within the Biomanufacturing Technologies A.A.S. degree, and this certificate may be earned independently.*

*This certificate has not been approved by the Dept. of Education to be eligible for federal student aid*

**ADDITIONAL GRADUATION REQUIREMENTS:**

- 2.0 Graduation/Retention GPA
- 9 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

**NOTES LEGEND:**

- [R] Reading Proficiency/Placement  
[W] Writing Proficiency/Placement  
[M] Math Proficiency/Placement

*Learn more about proficiency requirements at <https://osuokc.edu/proficiency>.*