

Master of Science in Biopharmaceutical Process Engineering (MSBPE)

Class of 2026 Graduation Requirements

Qualified candidates with undergraduate degree in Biomanufacturing/Biochemical Engineering or equivalent, who satisfy the admissions requirements, will be considered for this **one-year program**. Students in the MSBPE program are required to complete a minimum of **30 Credits** over the course of the study.

Description	Credits
Biopharmaceutical Processing	7.5
Biopharmaceutical Processing LAB	7.5
Team Master Project (TMP) - Capstone Project	12
Other courses (Business, Science)	3
Total	30

Students are also required to complete a 400-hour, paid, relevant-industry internship in the summer before/after their first year, and present an internship poster reviewed by KGI faculty

Program Requirements

FALL Courses		
Course title	Course number	Credit
Engineering Fundamentals for Bioprocessing	ENG 5153	3
Introduction to Upstream Processing LAB	ENG 5133	1.5
Vector and Strain Design LAB	ENG 5151	1.5
Team Master Project (TMP) - Capstone	PDEV 6000	6
Advanced Bioseparations Engineering	ENG 6140	1.5
Advanced Upstream Processing	ENG 6132	1.5
Subtotal		15

SPRING Courses		
Course title	New number	Credits
Advanced Upstream Processing LAB	ENG 5134	1.5
Introduction to Bioseparations Engineering Lab	ENG 5141	1.5
Advanced Bioseparations Engineering Lab	ENG 5142	1.5
Data Analytics in R	MATH 5220	1.5
Team Master Project (TMP) - Capstone	PDEV 6000	6
Bioprocessing for Emerging Therapeutics	ENG 6152	1.5
Elective (ENG/MATH/SCI/RES/BUS)	TBD	1.5
Subtotal		15