

MBS Program Curriculum

Core Curriculum

The first year of the MBS program provides a common educational experience for all students, during which students engage in group collaborations to solve problems facing industry from numerous perspectives. The courses meet in-person once or twice per week with open-ended team projects that occur regularly throughout the semester.

Course Number	Course Name	Credit(s)
SCI 500	Molecular Biotechnology	1.5
ENG 5160	Introduction to Bioprocessing	1.5
SCI 5700	Medical Diagnostics	3.0
ENG 5300	Medical Devices	3.0
SCI 5300	Pharmaceutical Discovery	1.5
SCI 5310	Pharmaceutical Development	1.5
PEDV 5220	Healthcare and Life Science Industry Ethics	1.5
MATH 5000	Applications of Statistics (by placement)	1.5
BUS 5100	Financial Accounting	1.5
BUS 5110	Corporate Finance	3.0
BUS 5200	Healthcare Economics	1.5
BUS 5300	Competitive Strategy	1.5
BUS 5000	Introduction to Bioscience Industries	3.0
PDEV 5300	Business/Science Communications (by placement)	1.5
REG 5000	Introduction to US Food and Drug Law	1.5
PDEV 5100	Professional Development	0.0

Electives

Beginning in the spring of the first year, and continuing through the second year, students select electives to focus-in on a particular field of interest. All MBS students are required to complete 6 units of 400-level business courses, 6 units of 400-level technical courses, and 3 units of 400-level data analytics. Students may focus their studies further by choosing one of seven [concentrations](#):

- Bioprocessing
- Biotech Management
- Clinical and Regulatory Affairs
- Medical Devices and Diagnostics
- Pharmaceutical Discovery and Development
- Healthcare Economics
- Infectious Diseases

Industry Experience

The MBS program emphasizes industry experiences throughout the curriculum, both within courses and directly. In the first semester, students complete a professional development course including attending skills workshops, industry talks, and company info sessions.



In the summer between the first and second year, students get first-hand industry experience during their required summer internship. The internship serves as a launching point into their future careers.

In the second year, students take part in the Team Master's Project, the capstone of the MBS program in which teams of three to six students work with sponsoring companies in a consulting capacity to solve real problems.