

Vaccine Development, Graduate Certificate

The SARS-CoV-2 pandemic has reemphasized the importance of vaccines in our medical toolkit to prevent the spread of infectious diseases. The Certificate in Vaccine Development explores what vaccines are, how they work (immunization), how regulatory science has evolved in vaccine approvals, and how vaccines are created. This certificate includes three courses specifically focused on the science of vaccines and two courses focusing on cell culture and good manufacturing practices. Credits earned in this certificate may be used to satisfy requirements in the Master of Science in Biotechnology.

Program Requirements

- Concentrations and course offerings may vary by campus and/or by program modality. Please consult with your advisor or admissions coach for the course availability each term at your campus or within your program modality.
- Certain options within the program may be *required* at certain campuses or for certain program modalities. Please consult with your advisor or admissions coach for requirements at your campus or for your program modality.

Complete all courses and requirements listed below unless otherwise indicated.

Core Requirements

Code	Title	Hours
BIOT 5220	The Role of Patents in the Biotechnology Industry, Past and Future	1
BIOT 5630	Cell Culture Applications for Biopharmaceuticals	2
BIOT 5910	Vaccines and Immunization	3
BIOT 5920	Foundations in Vaccine Regulatory Science	3
BIOT 5930	Molecular Tools for Vaccine Design	3
BIOT 6310	CGMP Statutes and Regulation	3

Program Credit/GPA Requirements

15 total semester hours required
Minimum 3.000 GPA required