

GRADUATE CERTIFICATE IN MICROBIOME SCIENCE AND ENGINEERING

Requirements Effective Fall 2024

Additional coursework may be required due to prerequisites.

Code	Title	Credits
Required Course		
Select one course from the following:		3
AB 511	Microbiome of Plant Systems	
ANEQ 505	Microbiome of Animal Systems	
Select a minimum of 6 credits from the following with at least one course (not previously taken) from each Group.		6
Group A: Experimental Methods and Data Analysis		
AB 511	Microbiome of Plant Systems	
ANEQ 505	Microbiome of Animal Systems	
CIVE 533/ BIOM 533	Biomolecular Tools for Engineers	
MIP 545	Microbial Metagenomics/Genomics Data Analysis	
MIP 565/BZ 565	Next Generation Sequencing Platform/ Libraries	
MIP 570	Functional Genomics	
SOCR 545	Current Methods in Microbial Genomics	
Group B: Microbiomes in Context		
AB 511	Microbiome of Plant Systems	
ANEQ 505	Microbiome of Animal Systems	
FSHN 650C	Recent Developments in Human Nutrition: Genomic, Proteomics, and Metabolomics	
FTEC 578/ HORT 578	Phytochemicals and Probiotics for Health	
Program Total Credits:		9

*This certificate may have courses in common with other graduate certificates. A student may earn more than one certificate, but a given course may be counted only in one certificate.