BCMB489AO1: MICROBIOME AND BIOCHEMICAL TECHNIQUES COURSE OUTLINE SPRING 2021

! INSTRUCTOR

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COURSE DESCRIPTION AND OBJECTIVES:

This course aims to examine recent advances in microbiome research and select techniques in the context of human health.

COURSE TOPICS

1. Microbiome Overview	-Features, functions, methods for investigation challenges, impacts				
2. Microbiome and Immunomodulation	-mechanisms, approaches; implications for infectious disease (virus) and autoimmune disorders (MS)				
3. Microbiome and Host Metabolism	-mechanisms, approaches; implications for insulin resistance, Diabetes				
4.Microbiome and Neuroendocrine system	-mechanisms, approaches; mental health disorders (Autism, depression)				
5. Microbiome and Cancer	-mechanisms of impact				
6. Microbiome Therapeutics and the Pharmabiotic Research Industry	-applications, company profiles, history				

ASSESMENT OF STUDENT PERFORMANCE

(1) Techniques to be used:

А	85 - 89	В	73 - 76	С	60 - 64	N*	<	50
A-	80 - 84	B-	70 - 72	D	50 - 59			

* N grades

Students who have completed the following elements will be considered to have completed the course and will be assigned a final grade: Midterm 1, Midterm 2, Group Presentation, at least 2 Assignments, and Paper Contribution.

Failure to complete one or more of these elements will result in a grade of "N" regardless of the cumulative percentage on other elements of the course. An N is a failing grade, and it factors into a student's GPA as 0. The maximum percentage that can accompany an N on a student's transcript is 49.

Students are responsible for ensuring that they are properly registered in the course, and are expected to have met all pre/co-requisites for the csurse.