

COURSE DETAIL

MICROBIAL PHYSIOLOGY AND GROWTH

Country

United Kingdom - England

Host Institution

University of London, Queen Mary

Program(s)

University of London, Queen Mary

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

131

UCEAP Course Suffix**UCEAP Official Title**

MICROBIAL PHYSIOLOGY AND GROWTH

UCEAP Transcript Title

MICROBIAL PHYSIOLGY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course studies the diversity of microbial metabolisms. It looks at bacterial growth and replication, including organization and division of the chromosome, yield and responses to temperature, and nutrient availability. The course teaches photolithotrophy, photoorganotrophy, chemolithotrophy, and chemoorganotrophy; fermentation and anaerobic respiration; growth and extension metabolism of fungi; nitrogen transformations by microorganisms in free-living and mutualistic settings; microbiological standards in public health; clean water processing and waste-water treatment. Practical work covers prokaryote photosynthesis, bacterial fermentation, fungal digestion of wood and nitrogen transformations in sediments, and microbiological water quality. The course gives brief consideration to clean water processing and waste-water treatment.

Language(s) of Instruction

English

Host Institution Course Number

BIO231

Host Institution Course Title

MICROBIAL PHYSIOLOGY AND GROWTH

Host Institution Course Details

<https://www.qmul.ac.uk/sbbs/undergraduate/undergraduate/modules/bio231-microbia...>

Host Institution Campus

Queen Mary

Host Institution Faculty

Host Institution Degree

bachelors

Host Institution Department

BIOLOGICAL AND CHEMICAL SCIENCES

Course Last Reviewed

2021-2022

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