Overview

This course provides a broad coverage of material describing the fundamentals of microbial genetics. The course differs from MICR3621 Microbial Genetics (Advanced) by requiring less contact time in the laboratory and less overall course assessment. The course is intended for students interested in microbiology, molecular biology and genetics. The course covers fundamentally important and well established concepts in microbial genetics, while emphasizing the latest discoveries that have emerged from contemporary research efforts in the field (presented by senior researchers). Topics may include genetics of bacteriophages, bacteria, archaea and yeast, mutation and evolution, mechanisms of gene transfer, gene regulation and adaptive responses, and genomics and functional genomics of individual microorganisms and whole microbial communities. The practical component includes contemporary wet-lab microbial genetics experiments that complement lecture material. The practical also emphasizes interaction between demonstrators and students, facilitated through a rich variety of concept tutorials that cover diverse topics including experiments and outcomes with bacteria, archaea, or yeast involving transposon mutagenesis, gene library construction, gene complementation using recombinant plasmids, gene expression and regulation studies, UV mutagenesis and DNA repair, restriction/modification systems, promoter rescue experiments, and a variety of gene exchange techniques. The socioeconomic impact of microbial genetics is also discussed.
**Faculty**
Faculty of Science

**School**
School of Biotechnology and Biomolecular Sciences

**Study Level**
Undergraduate

**Offering Terms**
Term 3

**Campus**
Kensington

**Indicative contact hours**
7

**Timetable**
Visit timetable website for details
Conditions for Enrolment

Pre-req: 12 UoC from MICR2011 or BIOS2021/BABS2204 or BIOS2621/BABS2264 or BIOC2201
Exclusion Courses

MICR3621 | 6 UOC
Microbial Genetics (Advanced)
Course Outline

To access course outline, please visit:

BABS3021 Course Outline
Fees

Commonwealth Supported Students  $1191
Domestic Students  $5970
International Students  $5970

DISCLAIMER
Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the fee website.

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty. Fees for courses delivered through UNSW Global are published and charged by UNSW Global and thus appear as "Not Applicable" on this site.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions