

# COURSE DETAIL

## MOLECULAR BIOLOGY

**Country**

Hong Kong

**Host Institution**

University of Hong Kong

**Program(s)**

University of Hong Kong

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

116

**UCEAP Course Suffix****UCEAP Official Title**

MOLECULAR BIOLOGY

**UCEAP Transcript Title**

MOLECULAR BIOLOGY

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

**Course Description**

This course provides recent knowledge in molecular biology with special emphasis on the study of gene structure and function at the molecular level. The course includes a detailed account of the molecular processes in eukaryotic and prokaryotic cells, from DNA replication, RNA transcription, protein translation, to post-translational modifications with special emphasis on the regulation of prokaryotic and eukaryotic gene expression. Recently developed biochemical techniques including oligonucleotide synthesis, DNA sequencing, complementary screening and DNA cloning, site-directed mutagenesis, polymerase chain reaction and transgenic technology are also discussed.

**Language(s) of Instruction**

English

**Host Institution Course Number**

BIOL3401

**Host Institution Course Title**

MOLECULAR BIOLOGY

**Host Institution Course Details****Host Institution Campus****Host Institution Faculty****Host Institution Degree****Host Institution Department**

Biological Sciences

**Course Last Reviewed**

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