

COURSE DETAIL

BIOORGANIC AND MEDICINAL CHEMISTRY

Country

United Kingdom - England

Host Institution

University of Manchester

Program(s)

English Universities, University of Manchester

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biochemistry

UCEAP Course Number

115

UCEAP Course Suffix**UCEAP Official Title**

BIOORGANIC AND MEDICINAL CHEMISTRY

UCEAP Transcript Title

BIOORG&MEDICIN CHEM

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course examines the structure and roles of nucleic acids as well as the chemical synthesis of DNA and applications of DNA oligonucleotides. Students learn the basic features of enzyme catalysis from a structural, functional, and kinetic perspective; examples of enzyme mechanisms in terms of reactions and stereoelectronic effects; the key steps in a range of biosynthetic processes, including: biosynthesis of acetyl CoA terpenes (particularly monoterpenes) from acetyl CoA, cyclic monoterpenes, higher terpenes Cholesterol, steroid biosynthesis, and medicinal importance.

Language(s) of Instruction

English

Host Institution Course Number

CHEM30432

Host Institution Course Title

BIOORGANIC AND MEDICINAL CHEMISTRY

Host Institution Campus

University of Manchester

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Chemistry

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