

COURSE DETAIL

SCIENCE, MEDICAL TECHNOLOGY AND SOCIETY

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics Biological Sciences

UCEAP Course Number

126

UCEAP Course Suffix**UCEAP Official Title**

SCIENCE, MEDICAL TECHNOLOGY AND SOCIETY

UCEAP Transcript Title

SCNCE/MED TECH/SOC

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course examines the fusion of physics of biology that forms the basis of modern medical imaging and radiation therapy technology and traces its roots from the foundational theories to its implementation in medical procedures. Students learn how such technology is applied to disease management, as well as the modern innovations that pave the way towards the future of healthcare. Topics include how medical technology is one of the most important applications of science and technology; how it provides the means to protect and preserve lives in today's world of ageing population, proliferation of chronic diseases, global pandemics and rising pollution. The course requires students to take prerequisites.

Language(s) of Instruction

English

Host Institution Course Number

HSI2014

Host Institution Course Title

SCIENCE, MEDICAL TECHNOLOGY AND SOCIETY

Host Institution Course Details

<https://nusmods.com/courses/HSI2014/science-medical-technology-and-society>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Physics

Course Last Reviewed

2025-2026

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