COURSE DETAIL

FUNDAMENTALS OF MEDICAL IMAGING WITH HANDS-ON MRI
Country United Kingdom - England
Host Institution University of Sussex
Program(s) Summer in Sussex
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Health Sciences
UCEAP Course Number 111
UCEAP Course Suffix S
UCEAP Official Title FUNDAMENTALS OF MEDICAL IMAGING WITH HANDS-ON MRI
UCEAP Transcript Title MED IMAG FUNDAMENT
UCEAP Quarter Units 6.00
UCEAP Semester Units

4.00

Course Description

The course covers the fundamental principles of medical imaging, including the basics of the 4 major medical imaging methods: Ultrasound, X-Ray CT, PET, and MRI. The focus is on MRI and how it is used to capture the anatomy and function of the human brain. The course also provides hands-on experience with acquiring brain images using a 3T MRI scanner. Students learn how to process and characterize MRI images from healthy volunteers. Functional MRI (fMRI) data is used to learn the basics of statistical analysis used in neuroscience research. Students have the opportunity to interact with the MRI team and also with clinicians and neuroscientists who use the MRI for research.

Language(s) of Instruction
English

Host Institution Course Number
IS453

Host Institution Course Title
FUNDAMENTALS OF MEDICAL IMAGING WITH HANDS-ON MRI

Host Institution Course Details
https://www.sussex.ac.uk/study/study-abroad-at-sussex/our-programs/summer-schoo...

Host Institution Campus
University of Sussex

Host Institution Faculty
Undergraduate Summer School

Host Institution Degree

Host Institution Department
Brighton and Sussex Medical School (BSMS)

Course Last Reviewed
2024-2025

Print