

Medicine - for students who are 16–17 years old

Course introduction

Course objectives

- To understand the interweaving nature of the variety of systems in the field of medicine
- To explore and discuss the application of basic science in common clinical conditions
- To appreciate the ethical considerations involved in the practice of medicine
- To provide an overview of the basic science of the nervous system

Each topic will include a mixture of didactic or learning-assisted content (video, text, powerpoint) and self-directed learning activities to complete.

Topic titles

1. Medical Ethics.
2. Physiology and Anatomy of the Nervous System.
3. Neurodegenerative Disease.
4. Pharmacology and Pathology of the Nervous System.

Independent project work

This piece of work will combine all of the content covered in the course. Information covered during independent study, webinars and tutorials will contribute. By the end of the course, students will have characterized any disease (outside those covered in the core content) based on:

- The basic science of the organ/system affected (anatomy, histology, physiology)
- The clinical features of the disease (symptoms, physical signs, pathology)
- The strategies that are employed for its treatment (pharmacology, surgical techniques, experimental therapies)
- Any ethical concerns one might encounter as a healthcare professional treating this condition.