

COURSE DETAIL

LAB SKILLS: GENETICS & ONCOLOGY

Country

Netherlands

Host Institution

Maastricht University - Center for European Studies

Program(s)

Biological and Life Sciences, Maastricht

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

122

UCEAP Course Suffix

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UCEAP Official Title

LAB SKILLS: GENETICS & ONCOLOGY

UCEAP Transcript Title

LAB: GENETCS&ONCOGY

UCEAP Quarter Units

2.50

UCEAP Semester Units

1.70

Course Description

This course introduces the basic principles and techniques in genetics (in the context of oncology), to develop basic competences in the planning and performance of experiments and the evaluation of results, as well as writing reports. The course consists of 6 sessions of approx. 4 hours and covers topics such as DNA isolation/purification, gel electrophoresis, staining procedures, protein detection, and basic bioinformatics (commonly used databases, finding the genetic location of a specific gene and its gene sequences, design amplification primers for a specific genetic region, etc) using online available tools. Furthermore, this course provides basic knowledge on Good Laboratory Practice (GLP) and Laboratory Safety Regulations. Besides the hands-on time in the lab, each session requires preparation beforehand and reporting afterwards. Students work in pairs. Lab experience is not required, although biological and chemical background knowledge at secondary school level is recommendable for full understanding of the provided techniques. If necessary, in the first lab session, pipetting skills will be trained or refreshed. This course is designed to be taken in combination with SCI2022 Genetics and Evolution. Students who wish to take this course should concurrently enroll in SCI2022 Genetics and Evolution or have taken SCI2022 Genetics and Evolution before.

Language(s) of Instruction

English

Host Institution Course Number

SKI2088

Host Institution Course Title

LAB SKILLS: GENETICS & ONCOLOGY

Host Institution Course Details

https://courserespository.maastrichtuniversity.nl/p/module/EN/CES_PHME/SKI2088

Host Institution Campus

Maastricht University

Host Institution Faculty

University College Maastricht

Host Institution Degree**Host Institution Department**

Center for European Studies

Course Last Reviewed

2025-2026

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