COURSE DETAIL

LAB SKILLS: GENETICS & ONCOLOGY

Country
Netherlands

Host Institution
Maastricht University – University College Maastricht

Program(s)
University College Maastricht

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Biological Sciences

UCEAP Course Number
122

UCEAP Course Suffix
L

UCEAP Official Title
LAB SKILLS: GENETICS & ONCOLOGY

UCEAP Transcript Title
LAB:GENTCS & ONCOGY

UCEAP Quarter Units
2.00

UCEAP Semester Units

1.30

Course Description

This course introduces students to the basic principles and molecular techniques in genetics (in the context of oncology), to develop basic competences in the planning and performance of experiments and the evaluation of results. The course consists of 6 sessions of approx. 4 hours and covers topics such as RNA isolation/purification/quantification, staining procedures, protein detection, basic bioinformatics (commonly used databases, finding gene sequences of a specific gene, design amplification primers for a specific genetic region, etc) and image analysis 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. Lab experience is not required, although biological and chemical background knowledge at secondary school level is recommendable for full understanding of the provided techniques. In the first lab session, pipetting skills will be trained or refreshed. Prerequisite 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://www.maastrichtuniversity.nl/file/course-catalogue-2025-2026pdf

Host Institution Campus
Maastricht University

Host Institution Faculty
University College Maastricht

Host Institution Degree

Host Institution Department
Skills

Course Last Reviewed
2025-2026

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