

# 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**

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### **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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