



Course syllabus for

## **Tumor Biology, 9 credits**

Tumörbiologi, 9 hp

This course syllabus is valid from autumn 2019.

Please note that the course syllabus is available in the following versions:

[Autumn2011](#) , [Autumn2013](#) , [Autumn2014](#) , [Autumn2015](#) , [Autumn2016](#) , Autumn2019 , [Autumn2020](#)

Course code	4BI079
Course name	Tumor Biology
Credits	9 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Biomedicine
Level	AV - Second cycle
Grading scale	Fail (U) or pass (G)
Department	Department of Microbiology, Tumor and Cell Biology
Decided by	Programnämnd 7
Decision date	2011-04-06
Revised by	Programme committee for study programmes in biomedicine
Last revision	2019-03-27
Course syllabus valid from	Autumn 2019

### **Specific entry requirements**

At least the grade G (pass) on the courses Applied communication in biomedicine 1 including philosophy of science and bioethics, Applied communication in biomedicine 2, Frontiers in translational medicine, Laboratory animal science in theory and practice, and Biostatistics, within the Master's programme in Biomedicine.

### **Objectives**

On completion of the course the student should:

With regards to knowledge and understanding

- understand the basic principles in cancer biology,

With regards to competence and skills

- be able to give an overview of the cancer problem, the modern view on what cancer is, from a basic to a clinical perspective,

- be able to explain the most important problems that need to be solved regarding cancer biology,
- be able to explain tumour progression and metastasis,
- be able to account for commonly known hereditary cancer syndromes,

With regards to judgment and approach

- demonstrate an ability to discuss and understand advanced problems in cancer biology.

## Content

The course consists of several parts addressing several aspects of cancer biology.

## Teaching methods

The educational view is based on learning as an active research process. The course is an advanced course, and it is assumed that the student takes responsibility to acquire knowledge. The teaching will take place in the form of expert lectures, seminars and group assignments led of researcher. Group - and/or individual assignments are included and are presented as written reports and oral presentations.

## Examination

The examination consists of written assignments or written exams and/or oral presentations. Each part must have been passed in order to obtain the grade of Pass for the whole course.

Compulsory participation:

Course introductions, group assignments, seminars and demonstrations are compulsory. The course director assesses if and, in that case, how absence can be compensated. Before the student has participated in all compulsory parts or compensated absence in accordance with the course director's instructions, the student's results will not be registered in LADOK. Absence from a compulsory activity may result in that the student cannot compensate the absence until the next time the course is given.

Limited number of examinations or practical training sessions

Students who have not passed the regular examination are entitled to participate in five more examinations. If the student is not approved after four examinations, he/she is recommended to retake the course at the next regular course date, and may, after that, participate in two more examinations. If the student has failed six examinations/tests, no additional examination or new admission is provided.

The number of times that the student has participated in one and the same examination is regarded as an examination session. Submission of a blank examination is regarded as an examination. An examination, for which the student registered but not participated in, will not be counted as an examination.

If there are special grounds, or a need for adaptation for a student with a disability, the examiner may decide to deviate from the syllabus's regulations on the examination form, the number of examination opportunities, the possibility of supplementation or exemptions from the compulsory section/s of the course etc. Content and learning outcomes as well as the level of expected skills, knowledge and abilities may not be changed, removed or reduced.

## Transitional provisions

After each course, there will be at least six occasions for examination within a two-year period after the end of the course.

## Other directives

The course language is English.

## **Literature and other teaching aids**

Course literature is scientific papers and material handouts out during the course.

One book is recommended covering the whole subject:

Weinberg, Robert A.

The biology of cancer

2. ed. : New York : Garland Science, 2014 [dvs 2013] - 876, 6, 30, 28 s.

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