Course description template

Informing students on course requirements

(In accordance with information and study materials available on CooSpace)

From September 2019

Program: University of Szeged, Faculty of medicine
Course: **Frontiers of Molecular Biology**
Academic year/Semester: 1/2
Educator and contact details (e-mail): Prof. Boldogkői Zsolt, boldogkoi@gmail.com
Type of course: lecture/seminar/practice/laboratory
Weekly hours of the course: 2
Credit vale of the course: 2
Type of examination: final exam at the end of semester, practice exam, other: essay
Preliminary requirements (preliminary academic performance or completed course required to fulfill the purposes and requirements of the course): none
Purpose of course: This subject presents the newest achievements of modern biology and medicine, and also deals with the the most important general biological and medical topics. During this course we also explain the difference between science and pseudo science, and talk about unproven therapies, in a critical way. What is more, you can listen to the lectures of guest-professors, of specialists of exciting research fields at universities or research-centers from abroad.
Outcome requirements of the course (specific academic results to be established by the course): The students will learn and understand the following in details: Consciousness, Scientific basis of modern medicine & Homeopathy, Trends in medicine, Biological weapons, Defining the healing macrophage, Pseudoscience, soft science, Nanomedicine, Virus-host interaction, Mobile genetic elements, Nuclear protein import, Doping, Helicase-like proteins, Genetically modified organisms.
Topics: First semester: 1. Introduction 2. Consciousness 3. Scientific basis of modern medicine & Homeopathy 4. Trends in medicine 5. Biological weapons 6. Defining the healing macrophage 7. Pseudoscience, soft science 8. Nanomedicine 9. Virus-host interaction 10. Mobile genetic elements 11. Nuclear protein import

12. Doping 13. Helicase-like proteins 14. Genetically modified organisms
Supporting methods to achieve learning outcomes: Good lectures
Evaluation of the acquisition of expected learning outcomes: Exam: written or oral (depending on your choice) the ones who regularly visit the lectures (who has max. 2 absences) are allowed to 1. take the test at the last lecture 2. write an essay - without copying internet pages, or books- instead of a regular exam The essay should be your own work without copying internet pages, or books. Regulation of scientific citation is applied. The essays containing at least 20.000 characters should be forwarded 3 days before the exam day to the following email-address: frontiers.molbiol@yahoo.com Two-semester course, registration is allowed for 1st and 2nd year students. The two semesters of the course can be taken independently.
Mandatory reading list: none
Recommended reading list: none

Indicating course requirements on CooSpace scene (summary)

Description (public): Purpose of course: This subject presents the newest achievements of modern biology and medicine, and also deals with the the most important general biological and medical topics. During this course we also explain the difference between science and pseudo science, and talk about unproven therapies, in a critical way. What is more, you can listen to the lectures of guest-professors, of specialists of exciting research fields at universities or research-centers from abroad.
Requirements: Outcome requirements of the course (specific academic results to be established by the course): The students will learn and understand the following in details: Consciousness, Scientific basis of modern medicine & Homeopathy, Trends in medicine, Biological weapons, Defining the healing macrophage, Pseudoscience, soft science, Nanomedicine, Virus-host interaction, Mobile genetic elements, Nuclear protein import, Doping, Helicase-like proteins, Genetically modified organisms. Evaluation of the acquisition of expected learning outcomes: Exam: written or oral (depending on your choice) the ones who regularly visit the lectures (who has max. 2 absences) are allowed to 1. take the test at the last lecture 2. write an essay - without copying internet pages, or books- instead of a regular exam The essay should be your own work without copying internet pages, or books. Regulation of scientific citation is applied. The essays containing at least 20.000

characters should be forwarded 3 days before the exam day to the following email-address: frontiers.molbiol@yahoo.com
Two-semester course, registration is allowed for 1st and 2nd year students. The two semesters of the course can be taken independently.

Topics:

1. Introduction
2. Consciousness
3. Scientific basis of modern medicine & Homeopathy
4. Trends in medicine
5. Biological weapons
6. Defining the healing macrophage
7. Pseudoscience, soft science
8. Nanomedicine
9. Virus-host interaction
10. Mobile genetic elements
11. Nuclear protein import
12. Doping
13. Helicase-like proteins
14. Genetically modified organisms

Supporting methods to achieve learning outcomes: good lectures
Mandatory reading list: none.
Recommended reading list: none