

Sample Course Description

Faculty: Faculty of Natural Sciences.

Study program: Bachelor in Biology-Chemistry.

Course Title: Genetics.

Course Credits: 7

Language of Instruction: English.

Course Description: describe the course content, purpose, contributions, etc. and what the learner may expect if enrolled in the course.

The subject of genetics is to teach the students the basic knowledge of the genetics analysis. Through the knowledge from the Mendelian Genetics will be understood that how can be analysed and predict the results of different crosses in different organisms. Base on the principles of chromosomal theory of inheritance, of gene binding assays, on mutations study in different levels, the students will understand better and solve concrete situations of analysis in prokaryotic and eukaryotic organisms. An important part are also the knowledge that will be acquired on analysis and legality in population genetics and also training to watch their implementation in the population level.

Course Goals: Describe a practical purpose for the course, often are or relate to core competences. These are general learning outcomes

The main goals and objectives intended to be achieved in the end of this course are:

To know the main principles of formal genetic analysis, focusing on the main issues which become present by genetics and the world which it faces.

To understand how genes determine the phenotype and the role of interactions of the different levels through genes and different environmental factors.

Illustration of mutation mechanisms in different levels allowing that with the information obtained to make more advanced analysis in the molecular level.

To know the basic principles of the application and the importance of the genetic engineering.

At the population level, will be intended to give base methods of legality, study and analysis of population structure.

Course Requirements: List and describe the assessments which contribute to course score.

(May include exams, portfolios, participation, attendance, papers, oral reports, group projects, assignments, etc.)

The assessments include seminars, which should be attended to 75%.

Seminars have in total 20 points.

Grading: Indicate how a final course grade (including credit/no credit) will be assigned

Participation / Activation + Task: 20 points.
Final Exam: 80 points.

Course Schedule: Course frequency

Lectures are optional.
Seminars should be attended to 75%.

The Schedule of Activities is subject to change.

(Maximum 250 words)