

Health Ecology

Study programme	YUFE Joint Bachelor in Urban Sustainability Studies
Academic year	2026/2027
Curriculum component	First year
Year and semester	1st year, semester 2
Course type	Compulsory
ECTS credits	4
Contact hours (L+S+E)	20 + 15 + 15
Language of instruction	English

Contact

Course coordinator

Dražen Lušić, PhD, Full Professor

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Prerequisites

No requirements.

Course objectives

Students will acquire knowledge to understand the relationship between health and disease in relation to the negative effects of environmental factors.

Learning outcomes

- To define the structure and function of ecosystems and explain the role of elements in the biochemical cycle. To list the most common groups of chemical compounds - pollutants (metals, chlorinated hydrocarbons, polycyclic aromatic hydrocarbons).
- To list the types and sources of water pollution in nature and water for human consumption.
- To list the individual ingredients of foods and to list the chemical methods for their determination.
- To list the types of foods and food ingredients and to list of foodborne illnesses.

Course content

- health
- Environmental factors and adverse effects on the environment and man
- Ecogenetics
- Health - ecological aspects of nutrition
- Health aspects of the environment, assessment of health effects of environmental factors
- Ecological concept of health, global health-ecological problems, Ecological toxicology,
- environment and cancer

- Health care programs
- Quality of life in the environment. Seminars: Air
- Waters in nature
- Wastewaters
- Waste
- Food
- Articles
- of general use
- Nutrition and health.
- foodstuffs and articles of general use
- Overview of analytical techniques used in environmental analysis.

Teaching and learning methods

lectures, seminars and workshops and practical classes.

Assessment and grading

Student evaluation is carried out in accordance with the current Regulations of the University of Rijeka. Students' work is evaluated during the classes and final exam. Student assessment is carried out by means of ECTS (A-F, Absolute Distribution) and Numerical System (1-5). During the course, students can collect 50% of the grade, and on the final exam, the remaining 50% of the grade. Students' work is evaluated and graded during the course and at the final exam. Out of a total of 100 points, during the course student can accomplish 50 points and on the final exam another 50 points. Student assessment is done by the use of ECTS (A-F) and numerical system (1-5). Evaluation in the ECTS system is performed according to the evaluation criteria of the Decision on Amendments to the Rulebook of the University of Rijeka (Art. 29). The final grade is the sum of the credits achieved during the course and the credits obtained by the final exam. For each activity during the class, the student must achieve at least 50%.

Grading scale

Grade	Percentage
5 (A)	90-100%
4 (B)	75-89.9%
3 (C)	60-74.9%
2 (D)	50-59.9%
1 (F)	0-49.9%