

ENGLISH FOR SPECIFIC PURPOSES

BIOLOGY/ MEDICAL BIOLOGY/ TEACHER TRAINING
PROGRAMME - BIOLOGY

Language Department
Faculty of Natural Sciences
Comenius University

Lecturer: Mgr. Katarína Šupolíková

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- The ESP course is intended for students at:

B2 level of English (upper-intermediate)

B2 – C1



Number of students per group is limited to **16**

Students are also recommended to take an online standardized test to find out what their level of English is.

In English, the EF SET (<https://www.efset.org/>) is the best choice because it is free and the first standardized test to be fully aligned to the CEFR. You will need to set aside 50 minutes to complete the test and find out your CEFR level.

*see more detailed explanation of the CEFR levels at: <https://www.coe.int/en/web/common-european-framework-reference-languages/table-1-cefr-3.3-common-reference-levels-global-scale>

May be subject to change upon mutual agreement.

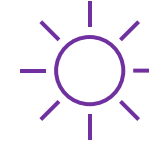
Requirements

Winter semester



- **2x home assignment**
- **1x listening journal** on a selected topic (TEDtalk)
- **1x mind map**
- **Final discussion** regarding the topics covered during the semester (taken within the last two weeks of the semester)

Summer semester



- **1x mind map**
- **test** (minimum to pass is 60%)
- **PPT presentation**

Attendance

Only two absences are allowed per semester.

May be subject to change upon mutual agreement.

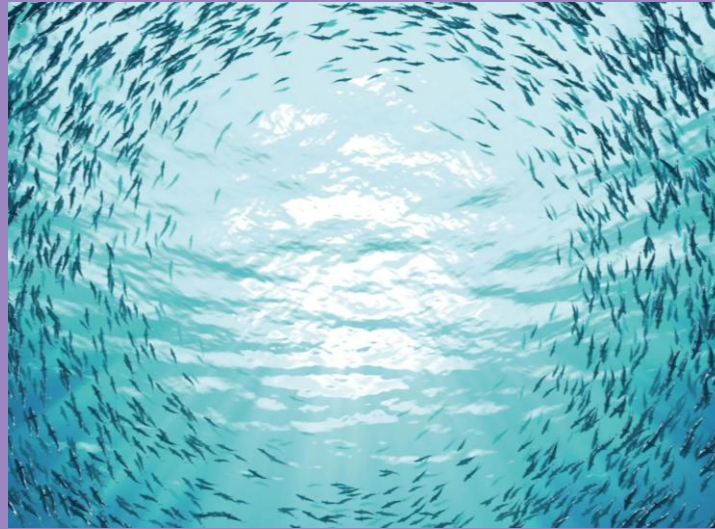
Topics

Winter semester

- **Vitamins:** Water or fat soluble, deficiency and excess, defining & non-defining clauses
- **Extinction of the Giants:** hypothesis vs theory vs law, irregular and foreign plural forms
- **DNA & Cloning:** structure, R. Franklin, Cloning Dolly, passive voice, PPS/ PPC
- **Choose a living world:** human digestive system, healthy diet, Blue Zones of Longevity

Summer semester

- **Flu & Spanish flu:** symptoms, treatment, history, pandemic vs epidemic
- **Chocolate:** health benefits, chemical compounds
- **Vitamin D & Skin Colour:** sources, deficiency and excess
- **Charles Darwin:** life, Theory of Evolution, hedging in academic writing
- **The Galapagos:** endemic species, threats, articles with geographic names



A SNEAK PEEK AT SOME LECTURES

Materiál obsahuje príklady z prezentácií použitých výlučne ako názorné ukážky vo výučbe bez akéhokoľvek priameho alebo nepriameho majetkového prospechu pre autorov.
The material contains examples from presentations used exclusively as illustrative examples in teaching without any direct or indirect financial benefit to the authors.

WHAT IS DNA?

Chemically, it is made up of 3 components:

Nucleotide – a building block of DNA

- Phosphates
- Hydrogen bonds
- Nitrogen-rich bases
- Nucleotide
- Deoxyribose sugars

SCIENTIST

Lab coat?
Lab instruments / mathematical signs, equations?
Male?
Glasses?
Moustache/ beard (crazy hair)?
Symbols of knowledge (e.g. books)?

Look for:

- 1.milk
- 2.flour
- 3.pasta
- 4.bread
- 5.cereal
- 6.margarine
- 7.juice
- 8.Lay's (or other)
- 9....?

TESCO

WALMART

Hypothesis vs Theory vs Law vs Fact vs Opinion

HYPOTHESIS
An idea or explanation for something that is based on known facts but has **not yet been proved**.

OPINION
A thought or **belief** about something or someone.

LAW
A general **rule** that states what always happens when the same conditions exist.

FACT
Something that is known to have happened or to exist, especially something for which **proof exists**, or about which there is information.

THEORY
Something **suggested** as a **reasonable explanation** for facts, a condition, or an event, esp. a systematic or scientific explanation.

Diagram:
FACTS → HYPOTHESIS → THEORY
FACTS → LAW
FACTS → OPINION

Passive voice

subject	verb	object	...
agent/ doer	be + past participle	recipient	kept the same

Scientists created Dolly the sheep in a laboratory.
Dolly the sheep was created in a laboratory (by scientists).
They extracted DNA from the donor cell.
DNA was extracted from the donor cell (by them).
I am painting the wall.
The wall is being painted (by me).

Sometimes defining and non-defining relative clauses can look very similar but have different meanings. Compare:

DEFINING	NON-DEFINING
His brother who works at the supermarket is a friend of mine. He has more than one brother . The one I'm talking about works at the supermarket.	His brother, who works at the supermarket , is a friend of mine. He has only one brother , and that brother works at the supermarket.
It's hoped that we will raise £10,000 for local charities which help the homeless . The money is intended for local charities. Some of these local charities help the homeless . There are other local charities (focused on other people in need) as well.	It's hoped that we will raise £10,000 for local charities, which help the homeless . The money is intended for local charities. All these local charities help the homeless .

Write down 2 reasons why dinosaurs went extinct on other planets

The Origins of Dinosaurs | Rick and Morty | adult swim

Prehrt na YouTube

STOMACH

It is a hollow **sac-like organ** whose wall is made of smooth muscle. It is very flexible – it can contract and therefore can take on different shapes depending on how full it is. The contraction mixes and grinds food. It also contains **gastric juices**. These contain substances that our cells can use. The stomach thus forms the **chyme**. Its walls are protected by a layer of **mucus** which protects it from the **hydrochloric acid** found in digestive juices. The cells of the gastric mucosa produce the enzyme **pepsin**, which breaks down proteins.
Although we cannot see soft tissues through X-rays, we can observe parts of the gastrointestinal tract under X-ray after drinking a **radiocontrast agent**. It is approximately 15 cm long.