

ODBORNÁ ANGLIČTINA PRE CHEMIKOV 1/2

BIOCHEMISTRY/ CHEMISTRY

Language Department

Faculty of Natural Sciences

Comenius University

Lecturer: Mgr. Barbara Kordíková, PhD.

- Email: [barbara.kordikova\(at\)uniba.sk](mailto:barbara.kordikova(at)uniba.sk)
- Office: G 206

B1 - B2 level

- The ESP course is intended for students with:

B1 – B2 level of English (intermediate – upper-intermediate) *

Number of students per group is limited to **14**

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>



Requirements

Summer Semester (2nd semester)

- Mind map (weight 10%)
- Test (weight 50%)
- Oral presentation (weight 40%)

Winter Semester (3rd semester)

- Mind map (weight 10%)
- Passive voice + Present Perfect Progressive – Moodle (weight 10%)
- Listening Journal from a TEDtalk (weight 30%)
- Debate on the topics covered in the semester (weight 50%)

Attendance (two absences allowed)

Requirements may be subject to change based on a mutual agreement.

Summer Semester (2nd semester)

- How to Give a Good Presentation
- A Life of Chemistry
- Atoms, Elements, Compounds
- Mixtures and Separation Methods
- Metals and Their Properties

Winter Semester (3rd semester)

- Vitamins
- Alcohol
- Water – Such a Unique Liquid
- Green Chemistry
- Chocolate Chemistry

Summer Semester (2nd semester)

- **How to Give a Good Presentation**

- structure
- verbal and non-verbal communication
- the use of linking words and phrases

- **A Life of Chemistry**

- What has chemistry ever done for us? (reading and discussion)
- vocabulary on lab equipment and instruments; safety rules
- Antoine Laurent Lavoisier and his contribution to science
- language focus: the use of definite/ indefinite/ zero articles in chemistry texts

- **Atoms, Elements, Compounds**

- vocabulary on atomic structure
- naming elements
- chemical nomenclature of basic inorganic compounds (salts, acids, bases)
- language focus: irregular and foreign plural (e.g. nucleus – nuclei, analysis – analyses, mitochondrion – mitochondria, bacterium – bacteria, ...)

- **Mixtures and Separation Methods**

- vocabulary on mixtures and separation methods
- describing a separation process (filtration, evaporation, crystallization, centrifuging, simple distillation, fractional distillation)
- language focus: word formation using negative prefixes (in-, il-, ir-, im-, un-, dis-, a -...e.g. achiral, insoluble, anhydrous, irreversible, inorganic,...); do and make phrases (e.g. do an experiment, do a research, make a discovery, do the business, etc.)

- **Metals and Their Properties**

- vocabulary on metals and their properties (e.g. ductile, malleable, inert, aqua regia, heat and electricity conductive, ...)
- watching videos on mercury and gold
- language focus: present perfect simple/continuous vs. past simple; AE vs. BE

The topics may be subject to change.

Winter Semester (3rd semester)

- **Vitamins**

- brainstorming on vitamins, water-soluble and fat-soluble vitamins
- vitamin deficiency and excess
- pellagra and beriberi, vocabulary, mind maps
- language focus: defining and non-defining clauses

- **Alcohol**

- types and properties of alcohol from a chemical point of view
- ethanol and methanol (properties and differences)
- ethyl alcohol and biochemistry (video: the impact of alcohol on the brain + discussion)
- alcohol and health, social issues
- language focus: word formation using prefixes (verb – noun – adjectives, e.g. modify – modification – modifiable, infect – infection – infectious, observe – observation – observant, etc.)

- **Water – Such a Unique Liquid**

- vocabulary on water chemistry (physical and chemical properties), e.g. anomalous properties of water, hydrogen bonds, high specific heat, great coolant, capillary action, adhesion, cohesion,...)
- water pollution and water conservation tips (video + discussion)
- language focus: reported speech

- **Green Chemistry**

- vocabulary on green chemistry
- 12 principles of green chemistry
- examples of good practice in green chemistry

- **Chocolate Chemistry**

- ailments and remedies
- beneficial chemical compounds found in cocoa and chocolate
- language focus: different uses of *that/those* – as a conjunction, pronoun and a substitute for a noun

The topics may be subject to change.



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.*

Students' feedback

Predmet anglický jazyk pre chemikov by som určite odporučil zapísať si študentom aj keď podľa novej akreditácie to bude už výberový predmet. Tento predmet ma naučil veľa novej odbornej chemickej slovnej zásoby. Čítali sme v rámci hodiny a domácich úloh taktiež rôzne zaujímavé texty napríklad o vitamínoch. Tento predmet v dostatočne veľkej miere vzhľadom na jeho hodinovú dotáciu rozvíjal viaceré oblasti jazyka ako je čítanie, písanie ale aj rozprávanie prostredníctvom prezentácie na chemickú tému. Oceňujem tiež, že sa v rámci predmetu opakujú aj gramatické celky ako sú členy alebo časy.

Páčila sa mi forma, akou boli hodiny vedené - spojenie diskusie, vzájomnej spolupráce, vysvetľovania látky a zároveň aj iných aktivít - Kahoot, rôzne videá... Nie je nič, čo by som vytkla.

Veľmi zaujímavé témy, komunikácia a aj zvládnuteľné cvičenia. A pre mňa najzaujímavejšie bolo chemické názvoslovie v angličtine.

Milá vyučujúca, ktorá sa snažila každú hodinu obzvláštniť, vymýšľať rôzne aktivity pre študentov, čím hodiny neboli nudné a stereotypné. Záverečné testy boli založené na tom, čo sa na hodinách aj reálne prebralo.

Páčili sa mi aktivity, snaha zadeľovať nás do skupín, kahoot quiz, dostupnosť učebných materiálov na Moodle...

Veľmi oceňujem prístup vyučujúcej, pretože ja som vždy chodila s úsmevom a s radosťou na tieto hodiny angličtiny, vždy som sa tam cítila dobre. Najviac sa mi páčil Kahoot.