



Appendix 4:

Trust Academy, Budapest, Hungary

Topics and Subjects Taught

BIO 1118 Human Biology

The purpose of this course is to establish a fundamental academic foundation across various fields of biology and equip you with the necessary skills for university entrance exams. Throughout the course, you will delve into the chemical foundations of life, explore the structure and functions of cells, understand the characteristics of genetic material, and study the anatomy and physiology of the human body.

Classes encompass a blend of conventional lectures and engaging activities, including class discussions and debates. Proficiency in conveying scientific information through both written and oral mediums is crucial for the enhancement of your academic prowess.

Topics

- Chemical basis of life
- Organic molecules of living organisms
- Cellular organization, cell organelles and other structures
- Metabolic pathways of the cell
- Cell cycle, cell division
- Genetics
- Viruses and Bacteria
- Histology
- Nervous system
- Endocrine system
- Reproduction

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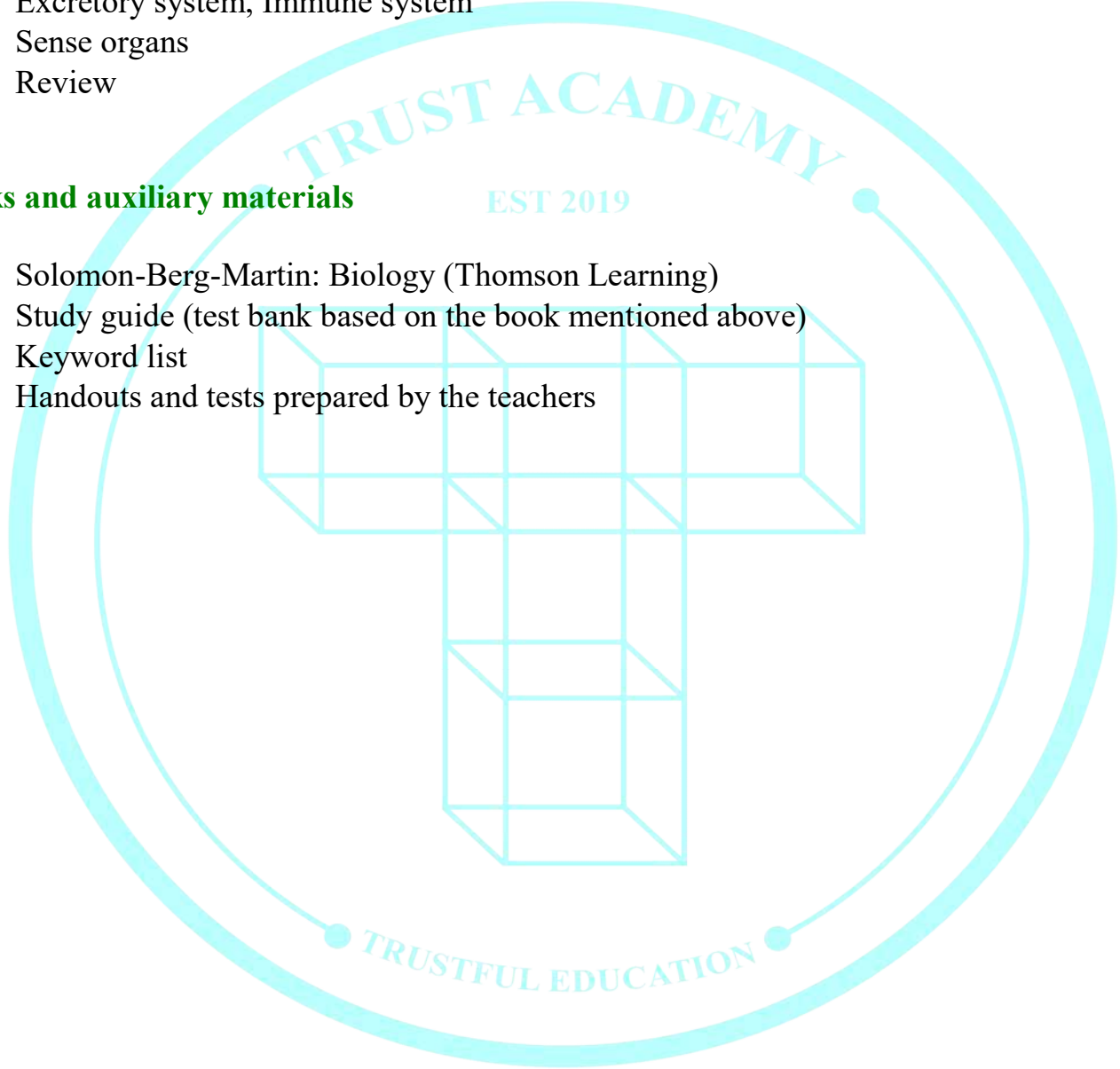


- Locomotion
- Internal transport, Respiratory system
- Digestive system
- Excretory system, Immune system
- Sense organs
- Review

Books and auxiliary materials

EST 2019

- Solomon-Berg-Martin: Biology (Thomson Learning)
- Study guide (test bank based on the book mentioned above)
- Keyword list
- Handouts and tests prepared by the teachers



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Page: 2 - 12

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CHE 1122 Essentials of Chemistry

This course is designed with the understanding that students may have limited or no prior background in chemistry. Therefore, we commence by introducing basic concepts gradually, with an increment in pace and complexity as the course progresses. Recognizing that many of our students are non-native English speakers, a key objective is to familiarize them with the specialized language of chemistry in English.

Additionally, the course places emphasis on enhancing problem-solving skills, particularly in the realm of chemical calculations. It is structured into three distinct sections: general, organic, and bioorganic chemistry, aligning with the first-year chemistry curriculum at universities. Our aim is not only to furnish students with the requisite knowledge for entrance examinations but also to facilitate their seamless transition into their first year of university studies.

Chemistry Program

- Units; Elements; Compounds; Chemical equations
- Electronic structure Periodic table
- Chemical bonds
- The mole
- States of matter
- Solutions; Concentration units; Calculations
- Colligative properties
- Reaction kinetics; Chemical equilibrium
- Acids, bases and salts
- pH; Buffers
- Redox reactions; Electrochemistry
- Organic chemistry: Reaction types and mechanisms
- Alkanes; Alkenes; Alkynes
- Alkyl halides; Alcohols; Ethers; Thio compounds
- Aldehydes and ketones; Carboxylic acids; Amines
- Optical isomerism; Carbohydrates
- Lipids; Amino acids; Proteins; Nucleic acids

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Page: 3 - 12

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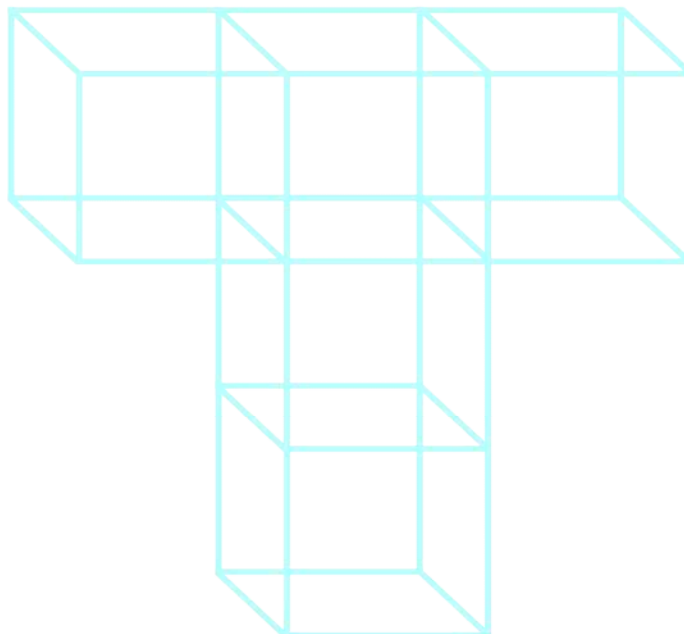


Textbooks

- Stoker: General, Organic and Biological Chemistry
- Study Guide (Compiled material provided by instructor)

Other textbooks that may be used

- Hein: Introduction to General, Organic and Biochemistry
- Holum: Fundamentals of General, Organic and Biological Chemistry
- Bettelheim, Brown, Campbell, Farrell: General, Organic, and Biochemistry



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Page: 4 - 12

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PHY 1010/1011 Physics for Pre-Med I.-II.

This course is designed to establish a foundational academic understanding in various fields of physics, equipping you with the necessary preparation for university-level studies. Throughout the course, you will delve into the essential phenomena in physics that are crucial for a comprehensive grasp of medical science.

Classes will encompass a combination of traditional lectures and interactive activities, including engaging discussions and debates. Proficiency in effectively conveying scientific information, both in written and oral forms, is a key aspect of developing your academic prowess.

Topics

- Kinematics
- Dynamics
- Work and Energy
- Hydrostatics
- Flow of Fluids
- Waves and Sound
- Thermal Physics
- Ideal Gas
- Geometrical Optics
- Optical Instruments
- Electric field and forces
- Electric currents
- Magnetism and Electromagnetic Induction

Books and auxiliary materials

- Giambattista-Richardson-Richardson: College Physics (GRR book)
- Study guide (math test bank, lists of “Examples to study”, “Problems to solve”, “Conceptual questions” and “Applications” based on GRR book)
- Handouts and tests prepared by the teachers

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Page: 5 - 12

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ESL 1004/1005 Introduction to Medical English I.-II.

The objective of this Language for Specific Purposes course is to empower students with the academic skills essential for success in college and future university studies. Beginning with a foundational overview of terminology construction, the course predominantly focuses on honing oral and listening, speaking, writing, reading, and tailoring them to the program's requirements. This course instills confidence in locating and extracting information, comprehending articles, and understanding lectures in the field of medicine. It is important to note that this course does not serve as a substitute for medical education; rather, its primary aim is to impart proficiency in the use of English within a medical context.

Topics	Language
Shapes and Properties	Descriptive statements, connectives
Location	Anatomical terms for position
Structure	Verbs/Stative, passive w.struct.s/
Function/process/	Simple present, certainty, uncertainty
Function/sequence/	Time c., phrases, connectors
Measurement	Units, symbols, comparing quantities, ratio, report
The structure of the body	Reading for info, definitions, vocab
Preparation for reading about the body's systems	Word building /prefix, suffix, word root, comb. forms/
The Muscular-Skeletal Systems	Describing anatomical shapes
Digestive System	Academic v.: severe suppression, Word formation Summarizing
Circulatory-Lymphatic Systems	
Respiratory System	Note-taking /extract info/
Endocrine System	Critical reading /paragraph building/
Blood	Reorganizing info
Integumentary System	Reading for details
Nervous System – Sense organs	How to write an abstract

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Page: 6 - 12

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ESL 1001/1003 Fundamentals of Composition/Critical reading

The goal of this course is to enhance fundamental skills in constructing sentences and paragraphs. It encompasses a comprehensive review of grammar, covering spelling and pronunciation, punctuation, verb tenses, and the proper sequence of tenses. This semester, the focus will be on crafting grammatically sound sentences, employing concise phrasing, effective paragraphing, and proficient note-taking.

Moreover, this class aims to acclimate students to the routine use of English monolingual dictionaries, fostering a stronger command of the language.

Program of the first semester

STRUCTURE/TOPIC	SKILLS
Introduction	To get acquainted with each other and with the aims of the course
parts of speech, prefixes, suffixes, Note-taking Biology text	using mono-lingual dictionaries skimming, scanning, reading for gist memorising new words, giving definitions; note-taking
Biology text Connectors Note-taking	Identifying sentence structure: Purpose (to, in order to, for, so that Contrast (but, although, however, yet) Addition (and, moreover)
Tenses: present (Simple and continuous form and meaning Frequency adverbs; Present cont with future meaning; State verbs; Contrasting Pr Perf, Pr Perf Cont and Past Simple)	Identifying synthetic functions
Tenses: future; To express(premeditated) intention; Predicting	Writing skills: recognising and writing topic sentences
Passive	To describe processes
The paragraph Reader	unity and coherence (elaborating a paragraph) connectors: reason and result,

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Page: 7 - 12

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Passive	and more complex connectors
The paragraph Reader Relative Clauses	Complex and compound sentences: subordinate clauses

Program of the second semester

STRUCTURE/TOPIC	SKILLS
Writing Compositions	composition and a paragraph Organizing information by time, by order of importance, by space Organizing ideas – supporting ideas Expressing an opinion, Comparing and contrasting, Writing about causes and effect
Grammar Structures: Conditionals: true, real ad unreal Conditionals: impossible past, wishes	Simplifying the meaning of sentences
Modals: ability – obligation (present/future, past)	Inserting sentences into the passage
Modals: certainty – possibility – uncertainty (present/future, past)	Finding factual information Understanding negative facts
Modals: request, offer, permission, suggestion, advice	Making inferences

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ESL 1002/1006 Oral Communication Skills I.-II.

Goals

The objectives of this program are as follows:

- Enhance effective communication in an academic setting.
- Promote safety and well-being.
- Cultivate robust study skills.
- Prepare for entrance examinations by refining both oral and written communication abilities, enabling confident expression in English.
- Foster cultural awareness, acquainting participants with accepted norms of behavior across various countries.
- Develop a diverse set of essential study skills encompassing listening, writing, reading, presentation, and discussion.
- Foster a sense of community among participants.
- Cultivate a strong sense of achievement.

CURRICULUM / SCHEDULE

This course covers a comprehensive range of topics aimed at equipping students with essential skills for academic and personal success. The curriculum includes:

- Understanding the essence of communication, including introductions and building relationships.
- Mastering the art of composing formal emails.
- Familiarizing oneself with the college environment.
- Exploring our origins, hometowns, and homelands, and describing various places.
- Adapting to life as a foreigner, ensuring safety, and understanding the expectations of a future university student.
- Engaging in discussions about Hungary, involving asking questions and making comparisons based on observations, facts, and opinions.

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Page: 9 - 12

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- Understanding and adhering to various laws, rules, and patterns governing our lives, including those related to exams, traffic, games, sports, manners, and holidays.
- Effective time management techniques.
- Identifying and utilizing personal learning and studying styles, including note-taking, creating answer plans, and utilizing mind-mapping techniques.
- Crafting effective CVs.
- Approaching tasks efficiently, be it housework, paperwork, or homework.
- Developing strategies for coping with stress.
- Cultivating effective listening and observational skills.
- Grasping the basics of essay writing, encompassing purpose, structure, language usage, and the incorporation of thoughtful content.
- Crafting compelling Motivation Letters.
- Preparing and delivering presentations, as well as preparing for oral exams.

These topics collectively aim to provide students with a well-rounded skill set for both academic and personal growth.

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Page: 10 - 12

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HUN 1101/1102 Elementary Hungarian I.-II.

Course Objectives:

This course focuses on developing the following skills:

- Mastery of fundamental vocabulary.
- Proficiency in comprehending and engaging in everyday conversations.
- Competence in reading a range of concise Hungarian texts.

These objectives aim to provide students with a solid foundation in the language for practical, day-to-day use.

Material to be covered:

This course covers the following key areas:

- Pronunciation and spelling rules.
- Suffixes for noun formation.
- Verb conjugation.
- Fundamental speech patterns.
- Introduction to basic syntax.

These topics serve as building blocks for a comprehensive understanding of the language, enabling students to communicate effectively in Hungarian.

The Hungarian alphabet, minimal exchanges in Hungarian

This course delves into various aspects of Hungarian language proficiency:

- Numerals, dates, and polite expressions in Hungarian.
- Descriptive language for hotel inquiries.
- Usage and understanding of demonstrative pronouns.
- Inquiries about language proficiency.
- Verb conjugation, focusing solely on the indefinite form.
- Expressing preferences and desires.
- Noun forms, including location and direct object endings.
- Discussing prices and costs.
- Seeking accommodation, particularly apartments.
- Handling irregular verbs.

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Page: 11 - 12

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- Inquiring about preferences for a particular apartment.
- Noun plurals and their respective location endings.

Topic list for the second semester:

Certainly! Here is the information in a more structured:

- Pleasure to meet you
- Noun Endings for Locations
- Where are we headed?
- Verb Prefixes indicating Direction
- Indirect Object Markings on Nouns
- Recovering / Getting Better
- Conveying Possession in Hungarian
- Visiting the Doctor
- Conditional Sentences
- Practical Communication Exercises

This course covers a range of important linguistic elements and practical scenarios to enhance your understanding and proficiency in Hungarian.

Contact Us:

Hungary:

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Marketing's Tel. No.: 0036-706233362

Address: Mária u. 9, 1085 Budapest, Hungary

Email: admission@tarustacademyhu.com

Website: www.traustacademyhu.com

Our Other Websites (in Persian Language):

www.trustcollegehu.com

www.trustintcollege.com

www.trustinternationalcollege.com

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Page: 12 - 12

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