Specialized (General)

Course syllabus - Sciences

Higher and Lower

plan docente)

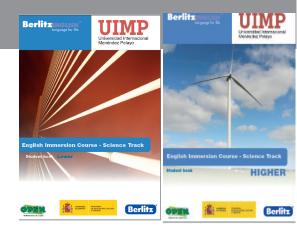
Course Title: Cursos de Inmersión en Lengua Inglesa - Sciences

Level: B1-C2

Duration: 43 hours (class time)

Student profile:

This course is for students who have a special interest or need to improve their English language knowledge with a special focus on science (The course is especially designed for those exploring the possibility to move into an academic or professional field where a science background would be a requirement).



Course Objectives:

- To improve oral fluency and comprehension.
- To improve on such essential communication skills as debating, discussing, presenting, and reasoning based on topics from sciences.
- To consolidate and learn vocabulary that can be applied to various aspects of science grounded subjects.
- To consolidate and reinforce existing vocabulary and structures through practical application of the language with a focus on participative communication.
- To allow the student to acquire confidence to speak in public in a variety of settings using specific English.
- To learn about and discuss a broad range of subjects from a variety of science based topics.
- To study and, in some cases, practice the writing skills needed for academic and professional application within this field.

Topics:

Statistics and data, presentations, psychology and criminology, experiments and the scientific method, computing and I.T, modern health threats, environmental problems, biotechnology and biomedical engineering, job applications and interview skills, population growth and diminishing resources, inventions.

Grammatical content:

Grammar structures will be practiced during the course through practical application. Specifically needed language structures will be incorporated into the topics.

Methodology:

The methodology used is the communicative approach with a very strong emphasis on total participation. Students will be encouraged to actively participate at all stages of the course to maximize their oral use of the language.

New language and structures are taught through elicitation and the use of the language in context. Students are then helped to assimilate these new elements through natural practice (both teacher led and free practice activities).

Science - Day 1 - Monday

08.30 - 09.00: Breakfast

09:00-10:30 Level testing:

Teachers use prepared questions and test approx. 5 students each.

While oral tests are being conducted, students are completing a written test.

Students are graded numerically, with these provisional grades noted.

*After class on Monday, teachers will review level grades with students performance in class. Any changes wicill be entered in the Amended level evaluation form.

10:30-11:30 Ice-breaker games (in groups)

Getting to know one another: Students work in pairs to obtain information about each other (10 min).

Presentations: Each student must present their partner to the rest of the group.

11:30-11:45 Break

11.45 - 14.15: Presentations

Topics: Good presentations and good speakers

Different types of presentations

Topics

Dos and Don'ts of presentations Powerpoint pros and cons Structure of a presentation

Objectives: Making sure your presentation is tailored to the audience

Talking about the most important aspects of a presentation

Discussing the Dos and Don'ts of public speaking Discussing and learning non verbal communication

Talking about the content and structure of your presentation

Grammar: Phrasal verbs

14.15 - 15.30: Lunch with teachers

15.30 - 18.45: Talking numbers

Topics: Importance of statistics

Graph types

Data and mathematical functions Surveys and data collection

Objectives: Think about contexts where statistics are important

Discuss what statistics you trust and mistrust Learn the names of different types of graphs Practice describing data and mathematical functions

Use statistics to support a debate

Discuss the role of surveys in data collection

Think about the best practices for designing a survey

Design your own survey and collect data from your classmates

Grammar: Conjunctions

17.00 - 18:00 One-to-One sessions + On-going group project

Students receive their 15 minute one-to-one session.

While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective is to create a play/report/documentary which they must perform in front of their peers in the final class on Friday.

18:45: Finish Class

19.00 - 20.30: Group activity 20.30 - 21.30: Dinner

21.30 - 23.00: Group activity



Science - Day 2 - Tuesday

08.30 - 09.00: Breakfast

09.00 - 11.30: Psychology and Criminology

Homework check and review

Topics: The Branches of psychology and common treatments and problems

Current trends of medication

Group Psychology

Mental disorders in Cinema Psychology and Criminology

Objectives: Discuss the principal branches of psychology and how they are

practiced

Consider the treatments for common psychological problems Discuss common behavioral problems, treatments & potential social

stigma

Debate the current trend of medicating ADHD and depression

Discuss group think, peer pressure and bullying

Consider the representation of mental disorders in cinema Discuss the relationship between psychology and criminology Consider whether brain scans can predict criminal behavior Take a personality test inspired by Carl Jung & Isabel Briggs Myers'

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Typology

Read about famous psychology experiments

Grammar: Phrasal Verbs

1:30-11:45 Break

11.45 - 14.15: Eureka! - Famous Experiments in the Past and Toda

Topics: The scientific method

Experiments and equipment Facts and hypotheses Scientific writing Famous experiments

Objectives: Discuss the scientific method

Discuss experiments from your studies or degree Learn the names of basic laboratory equipment

Think about the difference between a fact and a hypothesis

Design an experiment to test your own hypothesis Discuss the Dos and Don'ts of scientific writing Compare two examples of scientific abstracts

Discuss famous scientific experiments, including Newton's discovery of the Laws of Motion, Archimedes' Principle, the Laws of Mendelian

Inheritance, & more Precise language

14.15 - 15.30: Lunch with teachers

Grammar:

15.30 - 18.45: Computing and Information Technolog

Topics: IT and modern life

The internet and technology used in education

Social media and addiction Technology in medicine

Objectives: Discuss the influence of the computing and information technology on

modern life

Discuss the ways that you use the internet, and any specialized

technology used in your degree

Study vocabulary for the components of a computer Interpret quotations by famous figures about technology

Discuss the symptoms of social media addiction and how it can be

cured

Participate in a role play about the value of digital whiteboards,

tablets, and other kinds of educational technology Consider the influence of technology on medicine

Research important figures from major technology companies

17.00 - 18:00 One-to-One sessions + On-going group project

Students receive their 15 minute one-to-one session.

While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective is to create a play/report/documentary which they must perform in front of their peers in the final class on Friday.

18:45: Finish Class

 19.00 - 20.30:
 Group activity

 20.30 - 21.30:
 Dinner

 21.30 - 23.00:
 Group activity



Science - Day 3 - Wednesday

08.30 - 09.00: Breakfast

09.00 - 11.30: Modern Health Threats

Topics: Health threats in various parts of the world

Common diseases and symptoms

Homework check and review

Lifestyle related diseases - Healthy life style

Welfare states and health systems

Objectives: Learn some common health and nutrition proverbs

Discuss health threats in developed, developing and underdeveloped

countries

Learn the names of some common diseases and discuss their symptoms

Discuss obesity and other lifestyle diseases

Think about ways to improve Britain's Five-a-Day Campaign and develop

a healthy lifestyle plan of your own

Consider the concept of a "welfare state" and weigh the pros and cons of

the Spanish health system

Debate the issue of healthcare for tourists

Act as a politician, & develop a policy proposal to treat modern

health problems

11:30-11:45 Break

11.45 - 14.15: The Changing World I - Environment, Global Warming and Natural Disasters

Topics: Social issues and the environment

The history of our planet

Environmental problems & Global warming

Helping save the planet

Objectives: Discuss contemporary social issues and whether the environment is

considered a priority

Discuss important geologic milestones in the earth's history Brainstorm environmental problems, their causes and solutions Learn vocabulary for natural disasters and key historical examples

Discuss what to pack in an emergency kit

Read about the causes and evidence of global warming, and prepare a

mock presentation to world leaders

Consider the representation of environmental issues in cinema Think about what ordinary people can do to help the environment

Grammar: Describing trends

14.15 - 15.30: Lunch with teachers

5.30 - 18.45: Biotechnology and Biomedical Engineering

Topics: Biotechnology and biomedical engineering

Vaccines and the history of vaccines

Genetic modification in animals, humans, and food

Hospitals and medical treatments The Human Genome project

Objectives: Define biotechnology, biomedical engineering, and think about their

applications in the past and present Read about the history of vaccines

Learn basic vocabulary for biology, including the names of the parts of a

cell

Discuss amazing examples of genetically modified animals Consider the ethics of human genetic modification Weigh the pros and cons of genetically modified foods

Read about impressive developments in biomedical engineering

Participate in a role play comparing different types of hospitals

& medical treatments

Learn basic vocabulary to describe a hospital

Research the Human Genome Project

Grammar: Phrasal verbs

17.00 - 18:00 One-to-One sessions + On-going group project

Students receive their 15 minute one-to-one session.

While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective is to create a play/report/documentary which they must perform in front of their peers in the final class on Friday.

18:45: Finish Class

19.00 - 20.30: Group activity 20.30 - 21.30: Dinner

21.30 - 23.00: Group activity



Science - Day 4 - Thursday

08.30 - 09.00: Breakfast

09.00 - 11.30: **Job Applications and Interview Skills**

Homework check and review

Topics: Jobs

Career paths for science based education

Job applications, CVs, Interviews
Evaluating cover letters and candidates

Objectives: Review basic vocabulary for jobs and interviews

Think about what career paths exist for someone with your qualifications Discuss what factors you take into account when considering a job opportunity

Learn what documents you need to send with a job application

Evaluate a cover letter, and evaluate several imaginary candidates for a sample

job description

Learn how to describe your strengths, weaknesses and skills Think about how to sell yourself effectively in an interview Interview a peer, and participate in a practice interview Learn basic language for telephone interviews

Practice writing a CV in English Adjectives and prepositions

11:30-11:45 Break

Grammar:

11.45 - 14.15: The Changing World II: Population Growth and Energy Needs

Topics: Global population

Diminishing resources

Renewable/nonrenewable energy and nuclear energy

Objectives: Discuss global population growth in recent years and consider experts'

predictions for the future

Think about the relationship between population growth, energy, and

diminishing natural resources

Learn about sources of renewable and nonrenewable energy, and com

pare different countries' approach to the energy problem

Weigh the pros and cons of nuclear energy

Learn how to describe the atom Participate in a role play

Research current events related to this topic

Grammar: Phrasal verbs related to resources

14.15 - 15.30: Lunch with teachers

15.30 - 17.00: **Necessity is the Mother of Invention**

Homework check and review Topics: Great inventions

Spanish inventions Metric vs Imperial

Ergonomics

Advertising and marketing

Objectives: Debate the world's greatest inventions and test your knowledge with an

Inventions Quiz

Discuss famous Spanish inventions and accidental products, and attempt

to sell them to your classmates

Learn common conversions between the Imperial and Metric systems Discuss the principles of ergonomics and interesting historical examples

Discuss characteristics of advertisements

Learn some idioms that are common in advertising

Invent a product that solves an everyday problem and market it to you

classmates

Research some of the most important inventions of today – apps!

Grammar: Phrasal verbs

17.00 - 18:00 One-to-One sessions + On-going group project

Students receive their 15 minute one-to-one session.

While students are receiving their sessions, the remainder of the class will be working on an on-going project. The objective is to create a play/report/documentary which they must perform in front of their peers in the final class on Friday.

18:45: Finish Class

19.00 - 20.30: Group activity

20.30 - 21.30: Dinner

21.30 - 23.00: Group activity



Science - Day 5 - Friday

08.30 - 09.00: Breakfast

09.00 - 11.30: Professional and Practice

Objective: Session dedicated to the following:

Revision and consolidation of topics seen during the week Debate and Discussion on topics chosen by the students

Professional language: Students will look at elements of Professional

English such as:

Topics: - Cross cultural awareness in the professional environment.

- Meetings

- Telephone skills.

(from the provided materials)

11:30-11:45 Break

11.45 - 14.15: Student presentations

Students, in their groups perform the presentations they have been working on as an on-going homework activity.

They wil receive feedback from both teacher and classmates

14.15 - 15.30: Lunch with teachers

5.30 - 17.00: FINAL EXAM AND EVALUTATIONS

17.00 - 18:00: Performance of project + Revision and consolidation

Student will perform the group representation that they have been working on during the afternoon sessions from Monday to Thursday in front of their peers.

7 stage activity spread to review and consolidate the language seen over the duration of the course.

18:45: Finish

