



Course Specification

— (Bachelor)

Course Title: **English (1)**

Course Code: **ENG 1140**

Program: **Bachelor of Science in Chemistry**

Department: **Chemistry**

College: **Science**

Institution: **Imam Mohammad Ibn Saud Islamic University**

Version: **2024 – V1**

Last Revision Date: **None**



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A. General information about the course:

-1. Course Identification

1. Credit hours: 2 (1, 0, 2)

2 (1 Lectures, 0 Lab, 2 Tutorials)

2. Course type

A. ☐ University ☒ College ☒ Department ☐ Track ☐ Others

B. ☒ Required ☐ Elective

3. Level/year at which this course is offered: Level 1/ First year

4. Course general Description:

This course, "English for Science", enhances English language proficiency while integrating fundamental scientific concepts. Through lectures and interactive tutorials, students will explore topics such as the composition of matter, energy, motion, and the universe. Activities include group discussions, hands-on experiments, and presentations, fostering critical thinking and effective communication of scientific ideas..

5. Pre-requirements for this course (if any):

None

6. Co-requisites for this course (if any):

None

7. Course Main Objective(s):

By the end of this course the student able to:

1. Enhance Language Proficiency: Improve English skills in scientific contexts, including vocabulary and communication.
2. Integrate Scientific Concepts: Understand and apply fundamental scientific principles and theories.
3. Develop Critical Thinking: Foster skills in data analysis, hypothesis formulation, and interpretation.
4. Promote Collaboration: Encourage teamwork through group projects and discussions.
5. Encourage Ethical Awareness: Instill understanding of ethical considerations in scientific research.
6. Prepare for Advanced Study: Equip students for success in further academic and professional pursuits in science.

2. Teaching mode (mark all that apply)

| No | Mode of Instruction | Contact Hours | Percentage |
|----|-----------------------|---------------|------------|
| 1 | Traditional classroom | 45 | 100% |
| 2 | E-learning | 0 | 0% |



| No | Mode of Instruction | Contact Hours | Percentage |
|----|--|---------------|------------|
| 3 | Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning | 0 | 0% |
| 4 | Distance learning | 0 | 0% |

3. Contact Hours (based on the academic semester)

| No | Activity | Contact Hours |
|-------|-------------------|---------------|
| 1. | Lectures | 15 |
| 2. | Laboratory/Studio | 0 |
| 3. | Field | 0 |
| 4. | Tutorial | 30 |
| 5. | Others (specify) | 0 |
| Total | | 45 |

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

| Code | Course Learning Outcomes | Code of PLOs aligned with program | Teaching Strategies | Assessment Methods |
|------|---|-----------------------------------|---|---|
| 1.0 | Knowledge and understanding | | | |
| 1.1 | Demonstrate a comprehensive understanding of the fundamental principles of matter and energy. | K1, K2 | Lecture: Overview of matter and energy principles; Tutorial: Group discussions on examples. | Lecture: Overview of matter and energy principles; Tutorial: Group discussions on examples. |
| 1.2 | Articulate the scientific concepts of color, light, sound, and their effects using mathematical models. | K2, S1 | Lecture: Introduction to color, light, and sound; Tutorial: Problem-solving exercises. | Lecture: Introduction to color, light, and sound; Tutorial: Problem-solving exercises. |
| | Explain the origins of life and the evolution of the universe, integrating scientific theories. | K2 | Lecture: Overview of theories on origins of life; Tutorial: Research activity on selected topics. | Research report on chosen theory; Peer review. |
| 2.0 | Skills | | | |



| Code | Course Learning Outcomes | Code of PLOs aligned with program | Teaching Strategies | Assessment Methods |
|------|--|-----------------------------------|--|--|
| 2.1 | Critically evaluate and interpret quantitative data from scientific experiments. | S1, S4 | Lecture: Data interpretation techniques; Tutorial: Hands-on data analysis activities. | Data analysis assignment; Case study report. |
| 2.2 | Apply mathematical techniques to formulate research questions and analyze results. | S2, S4 | Lecture: scientific techniques for research; Tutorial: Group brainstorming sessions. | Lecture: scientific techniques for research; Tutorial: Group brainstorming sessions. |
| 2.3 | Effectively use technology and software applications. | S3 | Lecture: Introduction to relevant language software; Tutorial: Practical sessions using tools. | Software-based project |
| 3.0 | Values, autonomy, and responsibility | | | |
| 3.1 | Collaborate with peers in diverse teams, contributing to group goals. | V3 | Lecture: Team dynamics; Tutorial: Team-building exercises and collaborative projects. | Group project assessment; Peer evaluations |
| 3.2 | Evaluate ethical considerations in scientific research and decision-making. | V1 | Lecture: Ethics in science; Tutorial: Case studies and discussions on ethical dilemmas. | Written analysis of a case study; Group discussion summary. |
| 3.3 | Engage in self-reflection regarding personal learning and performance. | V2 | Lecture: Importance of self-evaluation; Tutorial: Self-assessment exercises. | Self-reflection journal; Feedback report on personal progress. |

C. Course Content

| No | List of Topics | Contact Hours |
|----|--|---------------|
| 1. | Introduction to Classification: - Discussion Points - Writing Skills: Topic Sentences - Writing a Paragraph of Classification | 3 |
| 2. | Comparing - The Elements: - Introduction - Short Reading: The Wonder Metals | 4 |





| | | |
|-------|---|----|
| | <ul style="list-style-type: none"> - Using English to Compare - Writing a Paragraph of Comparison - Introduction | |
| 3. | Cause and Effect - Color, Light, and Sound: <ul style="list-style-type: none"> - Sentence Patterns - Identifying Cause and Effect - Short Reading: The Effects of Temperature | 4 |
| 4. | Hypothesizing - Motion and Gravity: <ul style="list-style-type: none"> - Discussion Points - Writing Hypotheses | 3 |
| 5. | Defining – Energy: <ul style="list-style-type: none"> - Introduction - Short Reading: The Many Forms of Energy - Using English to Define - Creating Definitions | 4 |
| 6. | Exemplifying – Heat: <ul style="list-style-type: none"> - Introduction - Using English to Exemplify - Analyzing Exemplification | 3 |
| 7. | Giving Evidence - Smoking, Drugs, and Alcohol: <ul style="list-style-type: none"> - Discussion Points - Writing with Evidence | 4 |
| 8. | Experimenting - Electricity and Magnetism: <ul style="list-style-type: none"> - Introduction - Short Reading: Lightning Strikes - Using English to Give Directions | 4 |
| 9. | Calculating - Liquids and Gases: <ul style="list-style-type: none"> - Introduction - Short Reading: When Molecules Collide - Using English to Calculate | 4 |
| 10. | Reporting - The Origin of Life: <ul style="list-style-type: none"> - Discussion Points - Writing a Report | 4 |
| 11. | Describing - The Universe: <ul style="list-style-type: none"> - Introduction - Short Reading: The Sun and Other Stars - Using English to Describe | 4 |
| 12. | Predicting - The Weather: <ul style="list-style-type: none"> - Introduction - Short Reading: The Water Cycle - Discussion Points | 4 |
| Total | | 45 |



D. Students Assessment Activities

| No | Assessment Activities * | Assessment timing (in week no) | Percentage of Total Assessment Score |
|----|-------------------------------------|--------------------------------|--------------------------------------|
| 1. | Class Work (Participation+ Quizzes) | During the Semester | 30 % |
| 2. | Mid-Term Exam | 7th Week | 30 % |
| 3. | Final Exam | 13th Week | 40 % |
| 6. | Total | All weeks | 100 % |

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

| | |
|--------------------------|---|
| Essential References | Zimmerman, F. (2005). English for science. Pearson Malaysia Sdn. Bhd. |
| Supportive References | None |
| Electronic Materials | None |
| Other Learning Materials | None |

2. Required Facilities and equipment

| Items | Resources |
|---|--|
| facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.) | <ul style="list-style-type: none"> Classrooms |
| Technology equipment (projector, smart board, software) | Projector, smart board and electronic copy of textbook |
| Other equipment (depending on the nature of the specialty) | <ul style="list-style-type: none"> None |

F. Assessment of Course Quality

| Assessment Areas/Issues | Assessor | Assessment Methods |
|---------------------------|---|--|
| Effectiveness of teaching | <ul style="list-style-type: none"> Students Peer Reviewers Faculty External Reviewers Quality Assurance Unit | <ul style="list-style-type: none"> Student Surveys (Indirect) Formal Observations (Indirect) Course Report and Course File (Direct) |



| Assessment Areas/Issues | Assessor | Assessment Methods |
|---|---|---|
| | | <ul style="list-style-type: none"> • Student Samples (Direct) • Self-Reflection reports (Indirect) |
| Effectiveness of Students assessment | <ul style="list-style-type: none"> • Students • Faculty • Curriculum Committee • Assessment Committee • External Reviewers • Quality Assurance Unit | <ul style="list-style-type: none"> • Item Analysis Data ((Indirect)) • Teacher Feedback (Direct) • Student Feedback (Direct) • Course Report & Course File (Direct) |
| Quality of learning resources | <ul style="list-style-type: none"> • Students • Faculty | <ul style="list-style-type: none"> • Student surveys (Indirect) • Faculty surveys (Indirect) |
| The extent to which CLOs have been achieved | <ul style="list-style-type: none"> • Students • Faculty • Quality Assurance Unit | <ul style="list-style-type: none"> • Item Analysis Data (Indirect) • Course Report & Course File (Direct) • Annual Program Review (Direct) |
| Other | None | |

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval

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|--------------------|--|
| COUNCIL /COMMITTEE | COUNCIL OF THE DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE |
| REFERENCE NO. | 2446-17-7 |
| DATE | 2025/1/23 |

