

Course Specification Student Version

Course Title:	Epidemiology and Community Medicine
Course Code:	ECM 306
Department:	Basic Medical Sciences
Program:	Bachelor of Medicine and Surgery
College:	Vision College in Riyadh
Institution:	Vision College in Riyadh
Revised:	June 2025



A. Course Identification

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| 1. Credit hours: 3 (2+0+1) |
| 2. Level/year at which this course is offered: Level 6/Year 3 |
| 3. Pre-requisites for this course (if any): None |
| 4. Co-requisites for this course (if any): None |

B. Teaching Methods

1	Lecture
2	Seminar

C. Course Description and Objectives

1. Course Description

The course deals with studying major infectious and chronic diseases in Saudi Arabia, factors associated with their occurrence, case studies, census, incidence, mortality, and morbidity. Other topics included in the course are basic statistical concepts of data, representation, probability distribution, and analysis of statistical evidence of factors in the occurrence of these diseases with emphasis on their prevention and control.

2. Course Main Objective

The main purpose of this course is two-folds:

- First, to provide undergraduate medical students with the basic knowledge of different types of epidemiological approach.
- Second, to provide undergraduate medical students with the statistical tools to be applied for epidemiological purposes of prevention and control of diseases.

3. Course Objectives

By the end of this course, students should be able to:

- Identify demographic, environmental, and social determinant of prevalent disease in the community.
- Explain the impact of socioeconomic status and lifestyle on disease condition.
- Explain the basic principles of health promotion, wellbeing, and disease prevention.
- Identify the national and international organizations, and their role combating disease and promoting health.
- Demonstrate the skill of data search for a particular disease condition, extract relevant information and present the findings.
- Interpret the different types of health indicators.
- Collaborate with colleagues demonstrating presentation skills, group dynamics and teamwork competencies.
- Demonstrate lifelong learning skills and update knowledge, clinical and technology skills.
- Demonstrate skills of receiving educational feedback on performance.

D. Course Content

No	List of Topics
1	Principles of Epidemiology and Epidemiological Methods
2	Sources of Data
3	Measurement of Health Indicators
4	Scope of prevention, Levels of prevention
5	Epidemiology and prevention of communicable diseases
6	Epidemiology and prevention of non-communicable diseases
7	Screening of Diseases
8	Basic medical statistics
9	Epidemiologic studies
10	High-risk individual strategy
11	Infection control and prevention in hospitals

E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Seminar Evaluation Using Rubrics	10%
2	Quizzes	10%
3	Midterm Exam	20%
4	Final Practical Exam	20%
5	Final Written Exam	40%
	Total	100%

F. Learning Resources

Essential References	Park's Textbook of Preventive and Social Medicine [25th ed.]
Supportive References	The New Public Health [2nd ed.]
Electronic Materials	1.CDC (Centers for Disease Control and Prevention): www.CDC.gov 2. WHO (World Health Organization): www.WHO.int
Other Learning Materials	None

