



مركز الاعتماد
وإضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER



The University of Jordan

Accreditation & Quality Assurance Center

Course Syllabus

Community Medicine

0505295

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|----|--|-------------------------------------|
| 1 | Course title | Community Medicine |
| 2 | Course number | 0505205 |
| 3 | Credit hours (theory, practical) | Five Credit hours (all theory) |
| | Contact hours (theory, practical) | 80 hours |
| 4 | Prerequisites/corequisites | Non |
| 5 | Program title | Doctor of Medicine |
| 6 | Program code | --- |
| 7 | Awarding institution | The University of Jordan |
| 8 | Faculty | Medicine |
| 9 | Department | Community and Family Medicine. |
| 10 | Level of course | First level |
| 11 | Year of study and semester (s) | 2 nd year first semester |
| 12 | Final Qualification | |
| 13 | Other department (s) involved in teaching the course | School of Nursery |
| 14 | Language of Instruction | English |
| 15 | Date of production/revision | 30/9/2020 |

16. Course Coordinator:

Dr. Sireen Alkhalidi
 Faculty of Medicine
 Family and Community Health Department
 The University of Jordan
 Office No.5355000 extension 23442
 Office hours: Contact Dr. Sireen
 Mobile No. 0795 6926399
 Email. S.alkhalidi@ju.edu.jo

17. Other instructors:

Dr. Hamza Alduraidi
 Phone: 065355000 ext. 23169
 Office hours: Contact Dr. Hamza
 Faculty of Nursing
 The University of Jordan
 Mobile 00962772724072

Dr. Rania Absoul
School of Medicine
Family and Community Health Department
Office No.5355000 extension

Email: r.absoul@ju.edu.jo
Phone no. 079 8781805
Office hours : Contact Dr. Rania

18. Course Description:

As stated in the approved study plan.

- 1-Develop knowledge, skills, and attitudes to practice the basic principles of prevention.
- 2-Demonstrate basic understanding of common public health issues.
- 3-Acquire the knowledge and skills necessary to assist in the management of chronic diseases.
- 4- Identify and remove common sources of medical errors.
- 5-Appreciate the challenges associated with reporting.
- 6-Understand and apply models of quality improvement.
- 7-Develop a critical understanding of the multiple factors that affect the practice of medicine, public health and research.
- 8-Understand the interference between medical practice and health system, including the related economics and public policy issues.
- 9-Incorporate ethical principles in clinical practice and research.
- 10- Provides students with core skills in epidemiology and biostatistics.

Intended Learning outcomes (ILOs)

By the end of the course, a student should be able to:

PHC

Define concept of PHC

Describe elements of PHC Principles/ Characters/ services and activities.

Common causes of death globally and in Jordan.

MCH:

Child Health

- 1) -Emphasize general and specific objectives of providing MCH services
- 2) -Explain the rationale for immunization programs
- 3) -Introduce the concept of Expanded Program on Immunization(EPI)
- 4) -Introduce the school health indicators
- 5) -Determine to causes and determinants of infant morbidity and mortality
- 6) -Introduced to risk factors for premature children as they relate to increasing
- 7) infant mortality
- 8) -Understand child growth and development
- 9) -Introduce nutritional needs of infants and toddler
- 10) -Introduce nutritional assessment indicators

- 11) -Introduce the school health concepts and services
- 12) -Introduce Adolescence Care, School Health and school health indicators

Maternal Health:

- 1) Understand the importance and role of MCH care
- 2) Outline the objectives of the MCH programs
- 3) Describe major health problems of mothers and children
- 4) Identify the factors that affect the health of mothers and children
- 5) Major causes of maternal and child mortality and prevention
- 6) Recognize the available maternal and child health services
- 7) Describe the role of these services in preventing maternal and child morbidity and mortality
- 8) Introduce maternal nutritional needs and assessment indicators

Family Planning

- 1-Introduce concepts of family planning
- 2-Introduce fertility concepts patterns, trends determinants and indicators
- 3-Describe types of family planning methods

Non Communicable diseases.

Epidemiology, Prevalence, Risk factors, Screening and Prevention.

DEMOGRAPHY**Students are expected to be able to:**

- 1) Present the need for population studies (demography)
- 2) Introduce the components of population dynamics (births, deaths, migration)
- 3) Introduce the basics of fertility and mortality and their measures
- 4) Discuss determinants of fertility
- 5) Describe population composition
- 6) Describe types of population profiles
- 7) Introduce basics of population change
- 8) Introduce basics of population transition

NUTRITION**Students are expected to be able to:**

- 1) Define nutrition and its main components
- 2) Identify the importance of nutrition in Public Health
- 3) Identify essential nutrients and their categories and function
- 4) Recognize the main factors influencing nutrition
- 5) Recognize social determinants of nutrition
- 6) Link between nutritional factors and the main causes of death
- 7) Distinguish between underweight, overweight, and obesity.

OCCUPATIONAL HEALTH

Students are expected to be able to:

- 1) Define Occupational health and its settings
- 2) Recognize the importance of occupational safety
- 3) Identify health hazards in work place (Mechanical, Physical, Biological, Chemical, Psychosocial)
- 4) Perform occupational risk assessment
- 5) Recognize the danger of radiation in occupational health

ENVIRONMENTAL HEALTH

Students are expected to be able to:

- 1) Understands the significance of air, water and food pollution.
- 2) Identify the classes of pollutants and their sources.
- 3) Review the various effects of exposure to pollutants on human health.
- 4) Evaluate different solutions to combat pollution locally and globally.
- 5) Recognize global environmental problems and discuss their solutions.

Intended Learning outcomes (ILOs) for Healthcare Management

Successful completion of the course should feed the following learning outcomes:

- 1) Discuss the historical development of management and leadership theories.
- 2) Define management, leadership, and other related concepts.
- 3) Explain the various types of organization structures and the effect of each on organizational effectiveness and productivity.
- 4) Introduce strategic planning concept, process and major components.
- 5) Explain the application of the concepts of power and politics in healthcare and the role of the healthcare leaders in empowering their subordinates.
- 6) Apply a quality improvement program in a selected health care setting.
- 7) Explain the components of healthcare delivery system

Intended Learning outcomes (ILOs) for Epidemiology

Successful completion of the course should feed the following learning outcomes:

- 1) Define some of epidemiological terms used in the medical field.
- 2) Identify an association, types, and implication.
- 3) Recognize the levels of prevention and natural history of disease.
- 4) Define epidemiological studies, types of epidemic and screening.
- 5) Illustrate the basic epidemiological concepts and its utilization in medical field.
- 6) Explain the key feature and uses of descriptive epidemiology, analytical epidemiology, and experimental epidemiology.
- 7) Demonstrate understanding of causal relationships and factors of disease causation.
- 8) Summarize the common methods and steps of epidemiological investigations.
- 9) Apply the appropriate study designs to answer specific questions concerning health problems.
- 10) Summarize mortality and morbidity rates and ratios.
- 11) Calculate and interpret measures of association and application of the appropriate measure in various study designs.
- 12) Identify bias and confounding in epidemiological study designs, their types and ways to control them in various types of biases.
- 13) Evaluate screening tests and interpreting their uses in different population.

BIostatistics

Students are expected to be able to: (ILOs)

- 1) Understand the basic statistical concepts and their application to healthcare research.
- 2) Differentiate between parametric and nonparametric tests and comprehend their underlying assumptions.
- 3) Comprehend the conceptual basis of statistical inferences.
- 4) Decide what statistical technique will provide the best answer to a given research question.
- 5) Develop and understand the necessary computer skills using the SPSS in order to conduct basic statistical analyses.
- 6) Discuss the practical importance of key concepts of probability, inference, systematic error, sampling error, measurement error, hypothesis testing, type I and type II errors, and confidence bounds.
- 7) Discuss the roles biostatistics serves in public health and biomedical research.
- 8) Discuss general principles of study design and its implications for valid inference.
- 9) Identify the importance of biostatistics in epidemiological clinical trials.
- 10) Describe the role of the biostatisticians in biomedical research.
- 11) Assess data sources and data quality for the purpose of selecting appropriate data for specific research questions
- 12) Calculate standard normal scores and resulting probabilities.
- 13) Interpret and explain a p-value
- 14) Translate research objectives into clear, testable statistical hypotheses.
- 15) Differentiate between quantitative problems that can be addressed with standard, commonly used statistical methods and those requiring input from a professional biostatistician

20. Topic Outline and Schedule:

| Week | Day | Date | Topic section 1&2 | Lecturer | Topic Section 3&4 | Lecturer |
|------|---|------------|---------------------------------------|-----------|---------------------------------------|------------|
| 1 | Sunday Monday Wednesday Thursday | 11/10/2020 | Primary Health Care | Dr. Rania | Demography/ Nutrition | Dr. Hamza |
| 2 | Sunday Monday Wednesday Thursday | 18/10/2020 | Demography/ Nutrition | Dr. Hamza | Primary Health Care | Dr. Rania |
| 3 | Sunday Monday Wednesday Thursday | 25/10/2020 | Maternal and Child Health | Dr. Rania | Environmental and Occupational Health | Dr. Hamza |
| 4 | Sunday Monday Wednesday Thursday | 1/11/2020 | Environmental and Occupational Health | Dr. Hamza | Maternal and Child Health | Dr. Rania |
| 5 | Sunday Monday Wednesday | 8/11/2020 | Maternal and Child Health | Dr. Rania | Epidemiology | Dr. Sireen |

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|----|---|------------|--|-------------------|--|-------------------|
| | Thursday | | | | | |
| 6 | Sunday Monday Wednesday Thursday | 15/11/2020 | Epidemiology | Dr. Sireen | Maternal and Child Health | Dr. Rania |
| 7 | Sunday Monday Wednesday Thursday | 22/11/2020 | Midterm Exam | Dr. Sireen | Midterm Exam | Dr. Sireen |
| 8 | Sunday Monday Wednesday Thursday | 29/11/2020 | Epidemiology | Dr. Sireen | Biostatistics | Dr. Hamza |
| 9 | Sunday Monday Wednesday Thursday | 6/12/2020 | Biostatistics | Dr. Hamza | Epidemiology | Dr. Sireen |
| 10 | Sunday Monday Wednesday Thursday | 13/12/2020 | Health Management | Dr. Rania | Biostatistics | Dr. Hamza |
| 11 | Sunday Monday Wednesday Thursday | 20/12/2020 | Biostatistics | Dr. Hamza | Health Management | Dr. Rania |
| 12 | Sunday Monday Wednesday Thursday | 27/12/2020 | Epidemiology | Dr. Sireen | Biostatistics | Dr. Hamza |
| 13 | Sunday Monday Wednesday Thursday | 3/1/2020 | Biostatistics | Dr. Hamza | Epidemiology | Dr. Sireen |
| 14 | Sunday Monday Wednesday Thursday | 10/1/2020 | Childhood Vaccinations + Global Health | Dr. Rania | Childhood Vaccinations + Global Health | Dr. Sireen |
| 15 | Sunday Monday Wednesday Thursday | 17/1/2021 | Revision | Dr. Sireen | Revision | Dr. Sireen |
| 16 | Sunday Monday Wednesday Thursday | 24/1/2021 | Final Exam | Dr. Sireen | Final Exam | Dr. Sireen |

21. Teaching Methods and Assignments:

Achievement of ILOs is promoted through the following teaching and learning methods:

Teaching and learning for this class will **online** for this semester. Power point presentations supported with record of the teacher's voice will be uploaded on e-learning. If any changes occur to the mode of learning (due to the current epidemiologic and pandemic situation), we will update you accordingly.

In addition to a mix of other resources that enrich the teaching and learning process such as videos, published papers, and professional websites related to the topics, etc.

Students can ask questions and interact with teachers and with each other through discussion forum for each lecture.

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Each student must recognize that he/she bears the primary responsibility for his/her education. Classroom participation provides an opportunity to both refine your thinking and to practice expressing your ideas. Students are expected to prepare for lectures by reading the assigned materials and reviewing relevant materials. It is assumed that students will have read and thought about assigned materials before class. That is, you should at least have skimmed through them even if you don't understand them. Having documents for the session will be very helpful in following along with the material that is taught in the course. An internet access is highly encouraged.

Students are expected to attend all classes and ask questions as necessary. Successful learning in this course depends upon regular reading, studying, and class attendance. Absenteeism and missing sessions may hurt you significantly if you do not keep pacing with the course materials.

The discussions will be utilized in this course extensively. A constructive contribution helps to move the discussion forward. NONE will be penalized for floating an idea that others debunk. I encourage you to think critically, to challenge your classmates without showing disrespect, and to put forward your own ideas for consideration by others.

Students are encouraged to seek faculty assistance when they are having difficulty with content or with a specific skill. Seek help early. Don't wait until you are too deeply in trouble to bail yourself out. Office hours are listed above and I am also available only in appointments. Just because you can doesn't mean you should, invest your braining. Students are encouraged to talk with faculty on an individual basis if they want to explore specific content in more depth than is possible in class.

Midterm exam MCQ 40%

Attendance 10%

Final MCQ 50%

23. Course Policies:

A- Attendance policies:

Attendance and arrival on time is expected. Students who miss more than three class sessions with or without excuse will be accounted from the 10% attendance grade. (See the university policies regarding absence).

B- Absences from exams and handing in assignments on time:

Students unable to take a scheduled exam are expected to inform the instructor within 3 days and make arrangements for a make-up one. Make ups will be given only to students who have notified the instructor and set up an alternate time. Any missed exam will result in a grade of zero for that particular examination type.

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Cheating and plagiarism is not tolerated and will be dealt with according to the policies of the University of Jordan.

E- Grading policy: Midterm 40% 50% Final Exam 10% participation and attendance

The student's course grade will be primarily determined by a combination of midterm examination, class participation and attendance, in school, closed book, multiple choice style final examination. The final examination will incorporate principles and materials from the required readings and from classroom discussions and lectures

F- Available university services that support achievement in the course:

24. Required equipment:

Data Show

Lab Top

25. References:

Required book (s), assigned reading and audio-visuals:

1- Primary Health Care Systems and Services WHO 1997.

2- Primary Care The Future, NHS. June 2005

3- Health in Jordan WHO 2005

**4- Population and Family Health Survey
Jordan. 2007**

**5- Population and Family Health Survey
Jordan. 2012**

**6- Population and Family Health Survey
Jordan. 2017**

Recommended books, materials, and media:

An Introduction to Community and Primary Health Care, Authors

[Diana Guzys](#), La Trobe University, Victoria, [Eileen Petrie](#), University of Canberra

2-Oxford Textbook of Global Public Health (6 ed.)

Edited by Roger Detels, Martin Gulliford, Quarraisha Abdool Karim, and Chorch Chuan Tan

3- Maternal and Child Health, Third Edition

Programs, Problems, and Policy in Public Health

4- Chronic diseases Epidemiology and Control, American Public Health Association.

5- Epidemiology for Public Health Practice, Robert H. Friis and Thomas A. Sellers. Fifth edition, 2013, Jones and Bartlett.

Demography:

Arthur Haupt, Thomas T. Kane, And Carl Haub, PRB's Population Handbook, 6th International Edition, 2011

Environment:

Frumken, H., Environmental Health (from global to local) 3rd edition, 2016

Nutrition:

L. Kathleen Mahan & Janice Raymond, Krause's Food & Nutrition Therapy, 14th edition, 2016

Biostatistics:

William Mendenhall, Introduction to Probability and Statistics, 15th edition, 2019

Epidemiology

Merrill, Ray (2012). *Introduction to Epidemiology (6th Edition)*. Burlington, Massachusetts; United States: Jones & Bartlett.

Leadership and Management

Neil Gopee and Jo Galloway (2013). *Leadership and Management in Healthcare (2nd Edition)*. Washington DC; United States: SAGE Publications Ltd.

26. Additional information:

Name of Course Coordinator: Dr. Sireen Alkhaldi Signature: ----- Date:30/9/2020

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: Dr. Madi Jaghbeer----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: -Dr. Islam Massad----- Signature: -----

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Copy to:

Head of Department
Assistant Dean for Quality Assurance
Course File