



UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN
SCHOOL OF MEDICINE
Ba CLINICAL CHEMISTRY



SYNTHETIC PROGRAM.

1. Identification data:	
• Institution	Universidad Autónoma de Nuevo León
• College	School of Medicine
• Education program	Clinical Chemistry
• Learning unit	Public health
• Total hours of classroom, theory and practice	60
• Frequency in classroom per week	3 hours
• Total extra hours (Outside classroom)	30
• Modality	On-site
• Academic period	Sixth, Seventh, Eighth, and Ninth
• Type of learning unit	Elective
• Curricular area	ACFP-F
• UANL Credits	3
• Date of elaboration	30/08/2018
• Date of actualization	15/01/2021
• Responsible (s) for the design and actualization	Design: Dr. med. Raul Gabino Salazar Montalvo, M.C. Maria Guadalupe Rodriguez Lopez. Update: M.C. Maria Guadalupe Rodriguez Lopez

2.Purpose(s):

This Learning Unit (LU) contributes to the graduate profile by enabling graduates to handle chemical and biological materials in accordance with the official Mexican standards related to epidemiological surveillance, nosocomial infections, and the environmental protection of hazardous biological-infectious waste.

In relation to general competencies, the student uses information technologies to consult and analyze epidemiological information on diseases of local, regional, and national interest. They participate in the detection and notification of diseases of public health importance with a critical attitude and a commitment to general well-being, as well as in constructing innovative proposals to overcome environmental challenges.

In the Public Health LU, the student develops specific competencies to intervene in the analysis of current problems related to applicable regulations for preserving health and the environment. They will be competent to interpret and notify results of diseases that impact public health.

The Public Health learning unit integrates competencies acquired in other learning units such as Clinical Pathology, where they apply chemical and biochemical laboratory methods to the diagnosis, treatment control, prevention, and research of diseases.

3. Competence of the graduate profile

- **General skills contributing to this learning unit**

Instrumental skills:

To manage Digital Information, Communication, Knowledge and Learning Technologies (TICCAD), in academic, personal and professional environments with cutting-edge techniques that allow their constructive and collaborative participation in society.

Personal and social interaction skills:

To intervene in the face of the challenges of contemporary society at the local and global level with a critical attitude and human, academic and professional commitment to contribute to consolidating general well-being and sustainable development.

Integrative skills:

To make innovative proposals based on a holistic understanding of reality to help overcome the challenges of the interdependent global environment.

- **Specific skills of the graduate profile that contributes to the learning unit**

3. Handle chemical and biological materials following Mexican and/or international official standards to ensure their proper use and disposal to preserve health and the environment.

6. Interpret analysis results based on established criteria that allow for timely and relevant decision-making in clinical, toxicological, chemical, food, forensic, and environmental diagnosis.

4. Factors to consider for evaluating the learning unit

- Written evaluations.
- Reading reports.
- Film report.
- Course integrative project/product.

5. Course integrative project/product:

Written proposal for solving problems and cases related to Public Health where the student applies basic concepts and official Mexican standards in the preservation of health and the environment.

6. Sources of support and consultation (bibliography, hemerography, electronic sources):

Norma Oficial Mexicana NOM-017-SSA2-1994 for Epidemiological Surveillance

NORMA Oficial Mexicana NOM-045-SSA2-2005, for Epidemiological Surveillance, Prevention, and Control of Nosocomial Infections

Norma Oficial Mexicana NOM 087-ECOL-SSA1-2002 on Environmental Protection of Hazardous Biological-Infectious Waste, Classification and Management Specifications

Álvarez Alva, Rafael, Kuri Morales, Pablo. Salud Pública y Medicina Preventiva. 5ta. Edición. México, D.F. Editorial Manual Moderno 2018.

Tapia Conyer Roberto. El Manual de Salud Pública. Editorial Intersistemas, S.A. de C.V. 2ª Edición 2006. México

López Ramos Francisco. Epidemiología. Enfermedades Transmisibles y Crónico Degenerativas. Editorial El Manual Moderno. 3ª Edición 2010. México

David L. Heymann . Manual para el control de las Enfermedades Transmisibles. Organización Panamericana de la Salud. Décimo octava Edición. 2005 Washington D. C.

<http://www.who.int/es/>

<http://new.paho.org/hq/>

www.Salud.gob.mx