



UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN  
SCHOOL OF MEDICINE  
Ba CLINICAL CHEMISTRY



**SYNTHETIC PROGRAM.**

<b>1. Identification data:</b>	
• Institution	Universidad Autónoma de Nuevo León
• College	Faculty of Medicine
• Education program	Clinical Chemistry
• Learning unit	Medical parasitology
• Total hours of classroom, theory and practice	80
• Frequency in classroom per week	4 hours
• Total extra hours (Outside classroom)	10
• Modality	Schooled
• Academic period	Third semester
• Type of learning unit	Compulsory
• Curricular area	ACFP-F
• UANL Credits	3
• Date of elaboration	December 08th, 2016
• Date of actualization	July 24th, 2024
• Responsible (s) for the design and	Design: Dr. C Romel Hernández Bello y Dr. C José Prisco Palma Nicolás

actualization	
<p><b>2.Purpose(s):</b></p> <p>Apply cutting-edge parasitological techniques, based on information from presumptive diagnoses through the identification of medically important protozoan and helminth parasites, to ensure the correct clinical diagnosis of the causative agent of disease, thereby enabling the physician to generate an appropriate therapy.</p> <p>Regarding general competencies, the student will use both traditional and advanced identification methods and techniques for the clinical diagnosis of various parasitic diseases affecting humans. This will be achieved through the use of information following the formats or presentation styles established in the learning unit, respecting intellectual property rights. This competence will enable the student to address the public health challenges faced by contemporary society during natural disasters, both locally and globally, with a critical mindset and a commitment to human, academic, and professional development. The student will remain informed about local and global developments in economic, socio-cultural, ecological, and technological aspects of parasitology. Furthermore, the student will resolve social conflicts by applying these specific techniques within academic and scientific settings, contributing to the generation and application of knowledge for sound decision-making.</p>	

### 3. Competence of the graduate profile

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

#### **Instrumental skills:**

8. To use traditional and cutting-edge research methods and techniques for the development of their academic work, the exercise of their profession and the generation of knowledge.

#### **Personal and social interaction skills:**

10. 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:**

14. To resolve personal and social conflicts, in accordance with specific techniques in the academic field and in their profession for appropriate decision-making.

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

2. To execute physical, chemical and/or biological procedures in the collection, handling, storage and analysis of samples to contribute to a reliable clinical, toxicological, chemical, food, forensic and environmental diagnosis.

6. To interpret the results of analyses based on established criteria that allow timely and pertinent decision-making in clinical, toxicological, chemical, food, forensic, and environmental diagnosis.

#### **4. Factors to consider for evaluating the learning unit**

- Online quizzes
- Mind maps
- Daily evidences.
- Laboratory reports.
- Partial exams.
- Course integrative project/product

#### **5. Course integrative project/product:**

Report on clinical cases in which the student must propose the methodological strategy that allows them to identify the causative parasite(s) of the disease.

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

Romel, H. B. (2017). Compendio de Parasitología Médica para QCB. Monterrey: UANL.

Marco, B. (2014). Parasitología Médica. Mexico: Mc Graw Hill.

Apt, W. (2013). Parasitología Humana. Mexico: McGraw-Hill.

Patrick, M. (2017). Microbiología Médica. México: Elsevier.

CDC. (s.f.). CDC. Obtenido de US - Centers for Diseases Control and Prevention (CDC): <http://www.cdc.gov>

(OMS), M. d. (s.f.). Manual de Bioseguridad en el Laboratorio (OMS). Obtenido de Manual de Bioseguridad en el Laboratorio (OMS): [http://www.who.int/topics/medical\\_waste/manual\\_bioseguridad\\_laboratorio.pdf](http://www.who.int/topics/medical_waste/manual_bioseguridad_laboratorio.pdf)