

## SYNTHETIC PROGRAM

<b>1. Module identification code:</b>	
Name of the institution:	Universidad Autónoma de Nuevo León
Name of the school:	School of Medicine
Name of the degree program:	Clinical Chemistry
Name of the course (learning unit):	Research Seminar II
Total number of class hours-theory and practice:	234
Class hours per week:	13
Independent study hours:	66
Course modality:	Face-to-face instruction
Module level:	Eighth semester
Core/elective module:	Elective
Curriculum area:	ACFP-I
UANL credit points:	10
Create date:	30/12/2020
Date of last amendment made:	15/01/2023

Person(s) responsible for the design and amendment of the module	Dra. Q. Noemí Waksman Minsky and Dra Paula Cordero Pérez
--	--

## **2. Purpose:**

The purpose of this Learning Unit (LU) is to contribute to achieving the profile of the graduate by developing necessary competencies that allow selecting and applying appropriate methodology for the development of research in the health area. The learning unit promotes the development of general skills, since the student will be able to carry out research in accordance with the best scientific practices to promote and consolidate their work. During the study of this learning study the student maintains an attitude of commitment and respect when developing an individual research proposal that reaffirms the principle of integration of all scientific knowledge, in the local, national and international context, when developing their proposal in a laboratory in a peaceful coexistence. with other researchers and/or undergraduate and graduate students. The student will be able to achieve the adaptability required by scientific environments by developing all the steps of the scientific method and favoring the generation of new knowledge in order to create better living conditions. Along the learning unit, one or more of the specific competencies stated in the study plan are developed, in particular number 5, by incorporating new analytical methodology during the development of your research that will subsequently allow you to perform better in your professional practice to contribute to the improvement of procedures and processes. Within the previous learning units, there is a relationship with Research Seminar I since all the steps of a research protocol are defined, which will allow you to develop your project. This LU will support the LU of Social Service and Research Stay in which the knowledge acquired will be used to develop and conclude their project in a thesis

## **3. Competences of the graduate profile:**

**General competences to which this module (learning unit) contributes:**

- *Instrumental skills:*  
7. To develop inter, multi and transdisciplinary academic and professional proposals in accordance with the best global practices to promote and consolidate collaborative work.
- *Personal and social interaction skills:*  
9. To maintain an attitude of commitment and respect towards the diversity of social and cultural practices that reaffirm the principle of integration in the local, national and international context in order to promote environments of peaceful coexistence
- *Integrative skills:*  
15. To achieve the adaptability required by the uncertain social and professional environments of our time to create a better living conditions.

**Specific competences of the graduate profile to which this module (learning unit) contributes:**

5. To incorporate new analytical methodology that contributes to the functional, economic and/or environmental improvement of laboratory processes to respond to needs in health areas.

**4. Comprehensive evaluation of processes and products:**

- Daily evidences
- Partial exams
- PIA

**5. Course integrative product:**

Presentation of an individual report in poster format. The research product will be prepared in a suitable template for a Congress or Symposium presentation in English and Spanish

## 6. References:

Arias Fidas G. (2006) *El Proyecto de Investigación, Introducción a la metodología científica*, Venezuela: EPISTEME, C.A.  
Behar Rivero Daniel Salomón (2008) *Introducción a la Metodología de la Investigación*, Cuba: Shalom Gomez Bastar Sergio  
(2012) *Metodología de la investigación*, México: Red Tercer Milenio.

**Hernández Sampieri, Roberto (2014) *Fundamentos de metodología de la investigación*, México: McGraw-Hill.**

Quintana Tejera, Luis (2007) *Métodos y técnicas de investigación 1*, México: McGraw-Hill.

Rojas Soriano, Raúl (2007) *El proceso de investigación científica*, México: Trillas.

Tamayo y Tamayo, Mario (2009) *El proceso de la investigación científica*, México: Limusa.

Journals on the selected topic

### **Suggested websites:**

1. <https://www.webofscience.com/wos/woscc/basic-search>
2. <https://pubmed.ncbi.nlm.nih.gov/>
3. <https://www.elsevier.com/en-in/products/scopus/search>