

1. Identification data:	
• Name of the institution and the department (on official stationery of the department)	Autonomous University of Nuevo Leon, Faculty of Medicine.
• Name of the learning unit	Anesthesiology and Pain Management.
• Classroom hours-theory and/or practice, total	80 hrs.
• Total classroom overtime hours	40 hrs.
• Modality (school, non-school, mixed)	Schooled.
• Type of academic period (Semester or tetramester)	6th Semester
• Type of learning unit (mandatory/optional)	Elective.
• Curricular Area (ACFGU, ACFB, ACFP-F, ACFP-I)	Curriculum Area of Fundamental Vocational Training, ACFP-F.
• UANL Credits (whole numbers)	4
• Date of preparation (dd/mm/yy)	Aug 2017
• Last update date (dd/mm/yy)	10/01/2025
• Design Manager(s):	Dr. Teresa Nava Obregon Dr. Juan Francisco Lopez Rios

2. Purpose(s)

The aim of the anesthesiology and pain management learning unit is to provide students, through effective participation, with a global and objective view of the management of patients requiring anesthetic care, acute pain control and patients with chronic pathologies that cause pain; enriching their training with current concepts of diagnosis and treatment from a multidisciplinary point of view. It also aims to train students of the Bachelor of Medicine in Medicine and Surgery and Midwifery in the knowledge of the bases of anesthesiology, as well as the pathophysiological bases of acute and chronic pain.

Students will also have the opportunity to learn about the different types of anesthesia and identify the type of patients who are candidates for attending the Pain Clinic, with the aim of improving the quality of life of patients with pain.

This learning unit establishes theoretical classes that show the bases of pain medicine, in addition to a practical part where the student will have the opportunity to demonstrate their knowledge in the analysis, decision-making in the resolution of clinical cases where they review the latest evidence on diagnosis, pharmacological and interventionist treatment, prevention of chronic pain in addition to issuing their conclusions, promoting teamwork with cordial and respectful interaction. In addition, it allows the graduate to apply and integrate the concepts in a practical way with the knowledge acquired in the learning units of Pharmacology, Physiology, Pathology, Anatomy, and Propaedeutics.

3. State the graduate profile competencies

a. General Competencies to which this learning unit contributes

Competences Instrumentals:

Are competencies have a function instrumental and they can be of nature linguistics, methodological, technology either cognoscitive, propias of the profile academic and professional necessary for the local competitiveness and international in the epoch current.

Drive the technologies of the information and the communication as a tool for he accesses to the information and his transformation into knowledge, so as for he learning and job collaborating with technicians of vanguard that you let me his stake constructive in society.

Sunday his language mate r n a in shape or to the and written with correction, revelation, opportunity and ethics adapting his message to the situation either context, for the transmission of ideas and find azgos scientists.

Employ thought logical, critical, creative and prepositive for analyze phenomena natural and social that you let me take decisions relevant to his scope of influence with responsibility social.

Elaborate Propositions academics and professional sinter, multi and transdisciplinary de agreement to the better is practices world and animals to promote and with s o l l i n g he job collaborator.

Use the methods and techniques of investigation t r a d i c i o n a l and of van guard for he development of his job academic , the exercise of his

profession and the generation of knowledge.

- Competences personal and of interaction social :

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

11. Practice the values promoted by the UANL: truth, equity, honesty, freedom, solidarity, respect for life and others, respect for nature, integrity, ethics professional , justice and responsibility, in its scope staff and p r o f e s i o n a l f o r a contribute to build a sustainable society .

- Integrative Competences:

This guy of competencies in te g r a n the competencies i n s t r u m e n t a l s with people and of interaction social , for that he e g r e s s e d scope , together to the development of the competencies specific , the Integral training that it make it competitive , so much to level local , as national and international .

.13. To assume the leadership engaged with the needs social and professionals for promote he change socially relevant .

14. Solve conflicts persons and social I agree to techniques specific in he Scope academic and of his profesion for the adequate take of decisions .

Achive the adaptability that requiention the environments social and professionals of uncertainty of our time for create better conditions of life .

b. Specific competencies of the graduate profile to which the learning unit contributes

- Scientific Basis of Medicine

1.- Use the scientific foundations of medicine considering the economic, psychological, social, cultural and environmental factors that contribute to the development and evolution of the disease for medical decision-making and actions.

- Professional Clinical Practice

2.- Solve clinical problems through deductive reasoning, interpretation of findings and definition of their nature in order to make decisions and determine principles of action of medical practice to follow responsibly, impacting individual and collective health.

4.- Appropriately manage patients with the most common diseases, from a biopsychosocial perspective, through the application of knowledge, technical procedures and basic diagnoses, based on clinical guidelines and care protocols, to solve the main health problems of the first level of care of the individual and the community.

5.- Manage common medical emergencies, applying treatment, procedures and minor interventions and referring in an appropriate and timely manner patients who require critical care for the preservation of life.

- **Critical Thinking and Research**

7.- Apply the scientific method in the resolution of medical problems with an innovative, analytical and self-critical attitude in the prevention, diagnosis and treatment of diseases.

- **Professional Values and Ethics**

8.- Integrate professional values and ethics into medical practice, without distinction of gender, race, political and sexual preferences, religious beliefs, activities performed, different abilities or socioeconomic status, promoting social inclusion and contributing to the well-being of the population, quality of life and human development.

9.- Respect the integrity of the patient by preserving their medical information as a fundamental part of professional confidentiality, in order to protect their rights.

- **Organizational Work**

10.- Promote the culture of organizational work in the health field, recognizing multidisciplinary work, respect for institutional policies and compliance with regulations, in order to contribute to the comprehensive treatment of patients.

- **Communication**

11.- Apply the principles of effective communication by establishing a relationship of respect and empathy with the patient, their family members, the community and other health professionals, in order to use the information appropriately.

4. Comprehensive evaluation of processes and products (weighting/summative evaluation).

- Written report
- Resolution of cases
- Written report
- PIA
- Final exam

5. Integrative product of the learning unit (indicated in the synthetic program).

Clinical case analysis report on pain management and anesthesiology:

The way of working will be by teams made up of 10 to 13 students in teams assigning topics, their form of presentation will be written using Word with the characteristics that will be required and subtopics to be developed, they will be advised by a teacher through the MS Teams platform who will provide feedback until completion. The presentation will be through the use of power point and oral presentation by a student assigned at random or with the option to participate voluntarily or chosen by their teammates. During their preparation, they will create a channel within the learning unit on the MS Teams platform, including in the Word file, the power point presentation, and the link or link of articles used in it.

