



UANL

UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN

FACULTAD
DE MEDICINA



SUMMARY PROGRAM

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	Surgical Sciences II (Plastic Surgery, Traumatology and Urology)
<u>Classroom hours-theory and/or practice, total</u>	500 hours.
Total classroom overtime hours	120 hours.
Modality (school, non-school, mixed)	Schooled.
<u>Type of academic period (Semester or tetramester)</u>	10th Semester.
Type of learning unit (mandatory/optional)	Mandatory.
<u>Curricular Area (ACFGU, ACFB, ACFP-F, ACFP-I)</u>	ACFP-I.
UANL Credits (whole numbers)	24
Date of preparation (dd /mm/ yy)	ago-17
Last update date (dd /mm/ yy)	07/30/2019
Design Manager(s):	Dr. Mauricio Manuel Garcia Perez, Dr. Victor Manuel Pena Martinez, Dr. med . Adrián Gutiérrez González, Dr. Iram Zeyn Gonzalez Vargas, Dr. José Guadalupe Mendoza Mendoza, Dr. Fernando Hernandez Galvan.

2. Purpose(s)

The learning unit of Surgical Sciences II is carried out in the tenth semester, belongs to the Curricular Area of Integrative Professional Training and comprises a core area in the training of the physician in the Study Plan of Physician, Surgeon and Midwife, is part of an educational process in which basic and clinical knowledge is integrated in a multidisciplinary way, developing specific clinical competencies, which implies the promotion, evolution and consolidation of intellectual skills, with an integrative perspective: clinical reasoning (analysis, synthesis and evaluation), procedural skills and attitudinal skills, which prepares the student to successfully perform the required medical-surgical activities.

Its curricular relationship requires knowledge of the structure and function of the human body through the study of Anatomy, Physiology, Histology, Embryology, Microbiology, Biochemistry and Molecular Biology, Pathology, Clinical Pathology, Imaging, Quality and Safety in Care, in order to correlate said knowledge for the evaluation and solution of clinical-surgical problems, through the correct elaboration of a clinical history and an intentional

physical examination, combined with the interpretation of laboratory and imaging studies. It also requires knowledge of Pharmacology and Toxicology that allows the correct selection of treatment, taking into account their interactions, as well as with Bioethics for making pertinent decisions in its area of influence.

Regarding the general competences of the University, this learning unit promotes the use of formal language, the correct use of language; the use of logical and critical thinking that allows students to make decisions within their sphere of influence; the use of computer tools; and autonomous learning is privileged, which will allow them to consolidate their disciplinary and personal training. Regarding the specific competences of the profession, it contributes to scientific knowledge and its applicability through the clinic. Likewise, effective communication with patients, their families and other professionals is promoted, in addition to knowing how to work in a multidisciplinary team and always practicing medical ethics, respect, confidentiality and social commitment.

The biopsychosocial perspective is reinforced by treating the patient as a human being with a family and social context and not just treating the disease in isolation.

3. State the competencies of the graduate profile

a. General Competencies to which this learning unit contributes

C o m p e t e n c e s I n s t r u m e n t a l s :

1. Apply strategies of learning autonomous in the different levels and fields of the knowledge that you let me the take of decisions opportune tunas and pertinent in the areas staff, academic and professional.
3. Drive the technologies and society the information and the communication as a tool for he access to the information and his transformation into knowledge, as well as for he learning and work collaborative with techniques of vanguard that you let me his stake const r u c t i v e in
4. Sunday his language mate r n a in shape or to the and w r i t t e n with c o r r e c t i o n, r e l e v a n c e, opportunity and ethics adapting his message to the situation either context, for the transmission of ideas and find a z g o s scientists.
5. Using thought logical, critical, creative and p r o p o s i t i v e for analyze phenomena natural and social that you let me take decisions relevant to his s c o p e of influence with responsibility social.
6. Use a s e c o n d language, preferably he English, with c l a r i t y and c o r r e c t i o n for c o m m u n i c a t e in c o n t e n t s everyday, academics, p r o f e s i o n a l s and scientists.
7. Elaborate P r o p o s t i o n s a c a d e m i c s and p r o f e s i o n a l s i n t e r, multi y t r a n s d i s c i p l i n a r i a s de agreement to the better is p r a c t i c s world and animals to promote and with s o l l i n g he job collaborator.
8. Use the methods and techniques of investigation t r a d i c i o n a l and of v a n g u a r d for he development of his job academic, the exercise of his profession and the generation of knowledge.

C o m p e t e n c e s p e r s o n a l s and of interaction social :

9. Keep a attitude of c o m p r o m m i n e t a n d l respect toward the diversity of practices social and cultural that r e a f f i r m a n he principle of i n t e g r a t i o n in the conte x to local, national and i n t e r n a t i o n a l with the purpose of p r o m o t e environments of coexistence peaceful.
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 professional for a contribute to build a sustainable society.
Competencies in the graduates:
12. Construct proposals innovative based in understanding holistic of the reality for contribute get over the challenges of the atmosphere global inter dependent.
13. To assume the idea to go engaged with the needs social and professionals for promote the change socially relevant.
14. Solve conflicts persons and social I agree to techniques specific in the Scope academic and of his professional for the adequate take of decisions.
15. Achieve the adaptability that is required in social and professional environments of increase the relevance 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.
3. Evaluate the development and evolution of the disease through the analysis of biomedical information and related physical, social and cultural factors, promoting health education and encouraging preventive medicine.
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 minor treatment, procedures and interventions and referring patients requiring critical care to preserve life in an appropriate and timely manner.
6. Manage human resources, diagnostic interventions, therapeutic modalities and health care options according to national standards, promoting a culture of quality care and ensuring patient safety.

Critical Thinking and Research

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

Professional Values and Ethics

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 information appropriately.

4. Summative evaluation).

- Performance in clinical practice
- Logbook
- Exam
- Practical demonstration

5. Integrating product of the learning unit.

Portfolio of clinical surgical evidence.

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

Surgery Plastic

Base book: Grabb and Smith's Plastic Surgery. 7th Edition.

Plastic and Reconstructive Surgery Journal

PubMed.gov

Traumatology

Traumatology and Orthopedics, Basic Principles. Department of Traumatology and Orthopedics, "Dr. José Eleuterio González" University Hospital.

Ed. Cerro de la Silla Editores, 2019.

Sabiston . Treatise on Surgery: Fundamentals of modern surgical practice. 19 ed. Barcelona (Spain): GEA Consulting Publishing, SI; 2013.

RB Salter . Musculoskeletal System Disorders and Injuries. 2nd edition. Barcelona (Spain): Masson; SA 1986.

Campbells . Operative Orthopedics . 13th edition Volume 2. Memphis Tennessee : Mosby, 2017.

Urology

McAninch , JW & Lue , TF, (2014). Smith and Tanagho . General urology. San Francisco, California: Mc Graw-Hill.

Townsend , CM , Beauchamp , RD , Evers , BM & Mattox , KL (2014). Sabiston . Treatise on surgery. Elsevier

CENETEC clinical practice guidelines .

<http://www.dgb.uanl.mx/?mod=health>