



HEALTH



Tecnológico
de Monterrey



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MODEL TEC21 TEC CHALLENGES YOU

Our **challenge-based educational model** develops the competencies that will enable you to face up to the opportunities and challenges of the 21st century creatively and strategically.

With an education that will accompany you throughout your life, our aim is for you to be aware of the needs of the environment, acquire a systemic vision of problems and develop the capacity to solve them.

Right from the first semester, you will be participating in activities to develop your capacity to identify opportunities, find resources, take risks and recover from failure.

In addition, **the model empowers you** to make more decisions about your university studies as you progress, in order to **develop a unique profile**.





WHAT IS A CHALLENGE?

A challenge is an opportunity to learn something new and reinforce what you already know. **To solve it, you need to apply yourself, investigate and interact in the “real world”.** You won't be on your own: you will have a set of personal and technological resources and tools, as well as the advice of faculty who will accompany you throughout the process. Its resolution implies a certain degree of difficulty and a duration that will awaken your interest and enthusiasm and produce a sense of achievement.



COMPETENCIES THAT MAKE YOU UNIQUE

At Tecnológico de Monterrey, we have defined, after consulting leaders from diverse sectors and employers, seven competencies that all our students should possess. Regardless of which degree you are studying, the educational model anticipates that you will develop them through diverse challenges, courses and activities related to your university experience. They are:

1. **Self-knowledge and management**
2. **Innovative entrepreneurship**
3. **Social intelligence**
4. **Commitment to ethics and citizenship**
5. **Reasoning for complexity**
6. **Communication**
7. **Digital transformation**

These seven competencies, together with the **knowledge, skills, attitudes and values related to the area of Health and your degree**, will be your letter of introduction and your passport in the professional world.

STEP-BY-STEP RECORD OF YOUR LEARNING

While you are at university, you will keep a record in your competency file of the degree of progress you have made and the supporting evidence. Taking responsibility for creating this file will, from this very moment, be extremely useful when you join the workforce.



YOU USED TO CHOOSE A DEGREE, NOW YOU CHOOSE A PATH

Your curriculum will be a non-linear educational, dynamic and flexible experience. You will enjoy **more time and more elements** to know and mature your degree choice, as well as to **discover and capitalize all the opportunities** you have to personalize your degree program.

The model is comprised of **three stages** and, from the first semester, you will experience educational units (courses and blocks) that have clearly defined, individual and collaborative project- and task-oriented competency development objectives (knowledge, skills, attitudes and values). In the “blocks”, you will be tackling challenges connected to reality, working collaboratively with the support of a group of faculty who will guide your learning and, at the end, evaluate your competencies together with you and your peers.

These challenges, apart from being attractive, are comprehensive experiences, since they will drive you and your peers to observe reality, map situations, diagnose problems, reflect, dialogue and confront ideas on theories and techniques to solve these problems, while experiencing, designing and producing prototypes and solutions, within a reflective, applicative dynamic in which you can take risks and make mistakes and adjustments to achieve the objective.



- 3 Give a personal touch to your degree program, choosing between the offering of professional clinical elective experiences or concentrations for the B.A. in Bioscience.
- 2 Develop the competencies relevant to your degree through more focused courses and challenges.
- 1 Acquire the basic knowledge of your area, through courses and challenges related to degrees from the area of Health.

HEALTH

THE MORE YOU CAN DO, THE MORE YOU CAN GIVE

REINVENTING WELLNESS

This area has evolved at lightning speed over the past few years, increasing, for example, the use of robotics in surgery, introducing preventive medicine and incorporating more bionic technology in our bodies.

Moreover, trends go beyond the crucial task of alleviating and improving people's quality of life, with one of the priorities being what is known as delayed aging: tools and services that seek to help us feel better for longer and delay the aging process.

All of these transformations imply challenges, opportunities and, of course, new professional profiles. On entering this area, students will have a holistic vision of human beings and seek to have a positive impact on their wellbeing.

The area of Health groups together the following degrees:

- LBC** B.A. in Biosciences
- LNB** B.A. in Nutrition and Wellness
- LPS** B.S. in Clinical Psychology and Health
- MC** Physician & Surgeon
- MO** Medical and Surgical Dentist





The Educational Model of the School of Medicine and Health Sciences is based on Patient-Centered Learning, which seeks to understand the patient as a person, considering their individuality, structure of meanings and context from human, biomedical and management perspectives in order to attend systematically to their health needs and generate entrepreneurship in innovative changes that favor their reality and that of people in equivalent circumstances.

Graduates from the area of Health will have the following competencies:

Health-related research

Apply up-to-date knowledge and scientific method to generate innovative proposals for prevalent health problems, with critical thinking and a multidisciplinary perspective.

Comprehensive patient-centered approach

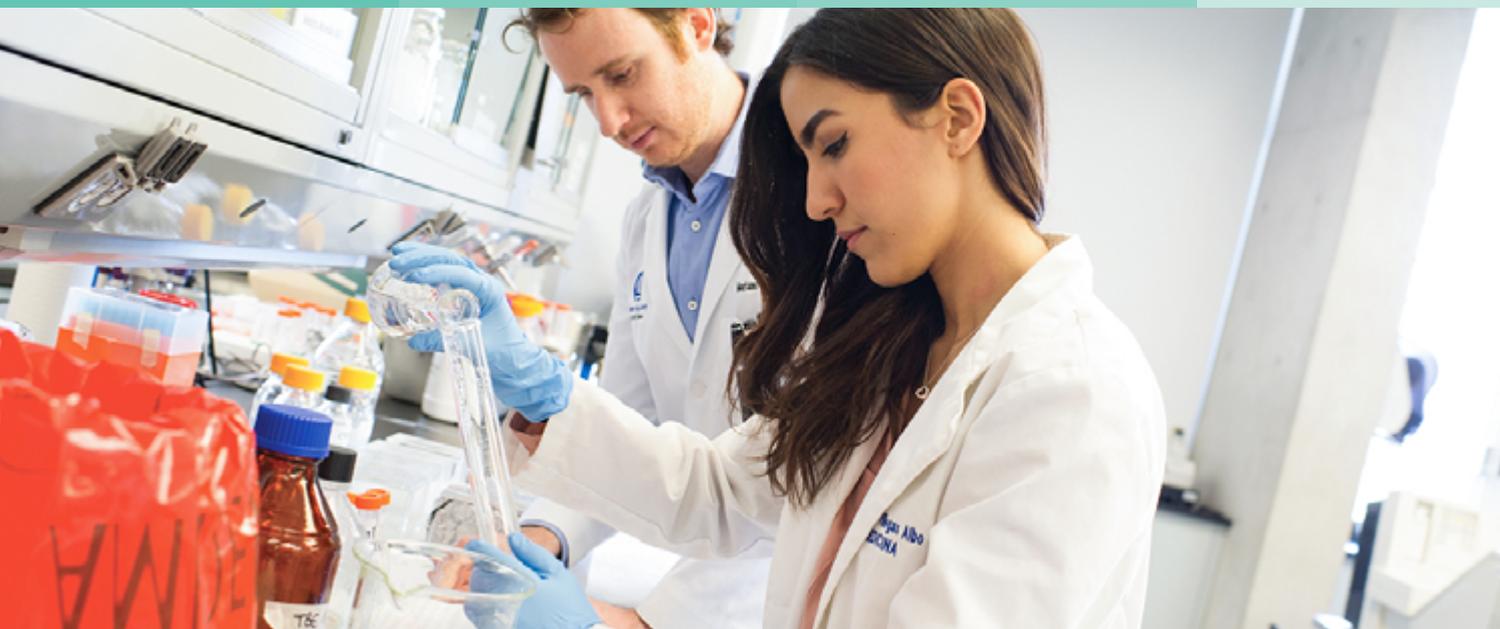
Address people and groups comprehensively in the early detection of disease, risk factors or emergency situations, generating actions for change that will favor healthy lifestyles.

Professionalism

Act with professionalism in interactions with patients, families and multidisciplinary teams, in local and global community and welfare settings.

Healthcare management

Manage the processes and resources required in the different phases of clinical attention, assuring quality in every dimension for the groups of interest and healthcare personnel.



LBC

B.A. IN BIOSCIENCES

For great needs, biosciences

In the area of medicine, research, advancements and innovation never stop. As a B.A. in Biosciences, you will receive the necessary tools to create innovative healthcare solutions, using cutting-edge technology to contribute to the development of treatments, medication and biomedical devices.

A B.A. in Biosciences will graduate from Tec de Monterrey with the following competencies:

- Develop biomedical and translational research projects related to solving health issues, adhering to national and international regulations in effect.
- Propose experimental and non-experimental strategies to study health problems, considering the appropriate methodology and statistical analysis.
- Implement biochemical, cell and molecular methods to study and diagnose infectious and non-infectious diseases, considering the latest advancements in science and technology.
- Manage the processes and resources required to conduct biomedical research, in keeping with current legislation.



WHICH SPECIALIZATIONS ARE AVAILABLE TO YOU?

The educational model enables you to personalize your graduate profile. During the specialization stage, consider a focus based on your post-graduation plans. Tec offers you the means to achieve this through diverse concentrations.

For further information, go to:



tec.mx/lbc

CAREER FIELD

On graduating, we recommend that you pursue graduate studies related to:

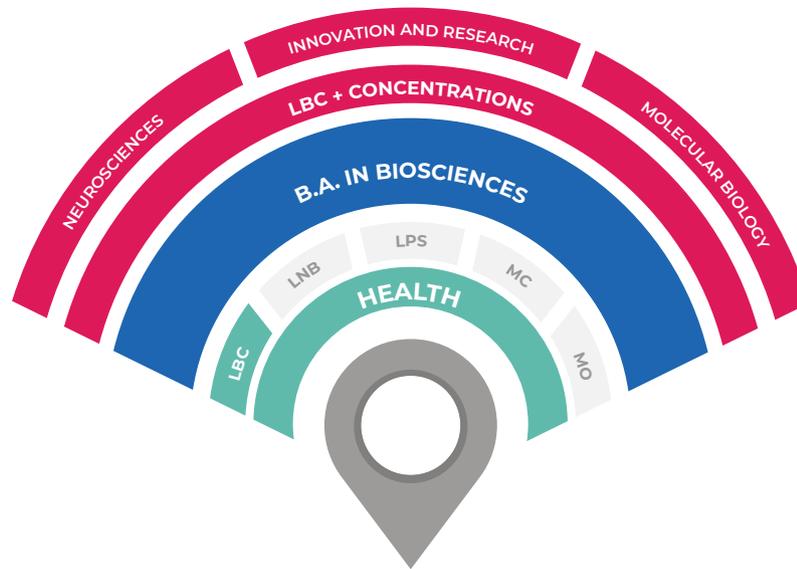
- Biomedical sciences
- Public health
- Translational medicine

IS THIS RIGHT FOR YOU?

If you are passionate about research and science and want to contribute to the wellbeing of humanity, you're in the right place.

CURRICULUM

CHOOSE YOUR PATH



What you need to know about each stage of your curriculum:

Exploration

1. You will open your competency file and add to it throughout your degree program.
2. You will learn the foundations of the area of Health.
3. You will participate in fundamental and exploration challenges from the area of Health, interacting with peers from different degree programs.
4. You will study general education courses, selecting them from a collection.
5. You will participate in a challenge that integrates all the competencies to be developed in this phase.

Focus

1. You will acquire the core competencies of your degree, in other words, those that distinguish it.
2. You will participate in more focused challenges to reinforce what you have learned and broaden your basic knowledge.
3. You will have the elements to decide whether to deepen your knowledge or diversify and, subsequently, build your specialization plan.
4. The Tec Weeks, challenges and overall university experiences will enrich your file.

Specialization

1. You have decided whether to diversify or delve further into your degree, by choosing a concentration, a modality, an internship stay, to mention just a few of your options. The Tec Semester is a flexible-time space to get started.
2. You will develop the competencies related to your specialization, increasingly connected to your passions, interests and plans.
3. If you decided to opt for a concentration, on graduating you will obtain a professional concentration certificate issued by the Office of the Registrar at your campus.

SEMESTER 1			SEMESTER 2			SEMESTER 3			CHOOSE YOUR PROGRAM
Elective Course Mathematics and Science	Elective Course Mathematics and Science	Elective Course Mathematics and Science	Elective Course Humanities and Fine Arts	Elective Course Humanities and Fine Arts	Elective Course Humanities and Fine Arts	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	
Musculoskeletal System	Oxygen Supply and Consumption	Human Genetics	Embryology	Growth and Development	Renal Morphophysiology	Management and Innovation in Health	Human Microbiota	Blood and Hematopoiesis	
Digestive System	Energy Management	Endocrine System	Human Reproduction	Emotional and Behavioral Development	Nervous System	Research Methods	Public Health and Biostatistics	Introduction to Clinical Practice	
Basics of Good Health	Metabolism and Energy	Cellular and Molecular Mechanisms	Life Cycle: Fertilization and Pregnancy	Life Cycle: Childhood and Adolescence	Life Cycle: Adulthood	Exploration Topic	Healthy Environments for the Elderly	Innovation in Public Health	
SEMESTER 4			SEMESTER 5			SEMESTER 6			CHOOSE YOUR CONCENTRATION
Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Ethics and Citizenship	Elective Course Ethics and Citizenship	Elective Course Ethics and Citizenship	Pathophysiology of the Endocrine System	Fisiopatología del sistema nervioso	Pathophysiology of Infectious Diseases	
Normal and Pathological Microstructure	Pathogenic Microbiota	Medical Genetics	Endocrine and Neural Ecosystem	Bioactive Molecules and Therapeutic Principles	Physiopathological Processes	Pathology of Biocontrol and Reproduction Systems	Pharmacology of Biocontrol and Reproduction Systems	Pharmacology of antimicrobial Agents	
Basic Histopathology	Immunobiology	Heritage and Development	Bases of the Nervous and Endocrine System	Pharmacotherapy	Physical Examination	Endocrine and Metabolic Disorders	Neurological Disorders	Multidisciplinary Model of Health Care	
SEMESTER 7			SEMESTER 8						
TEC Semester (Professional Elective I-VI)			Traslational Research Project	Project Management in Innovative Research	Biosciences Entrepreneurship				

- General education course
- Area exploration courses
- Exploratory topic (CHALLENGE)
- Track integrating block (CHALLENGE)
- Integrating disciplinary block (CHALLENGE)
- Final integrating block (CHALLENGE)
- Introductory block (CHALLENGE)
- Disciplinary course
- TEC Semester
- Area exploration block (CHALLENGE)
- Disciplinary block (CHALLENGE)



LNB

B.A. IN NUTRITION AND WELLNESS

Wellness starts from the inside

Having experts in the properties of foods and their effect on the human body has become a priority for people to achieve integral wellbeing. As a B.A. in Nutrition and Wellness, you will acquire the necessary tools to participate in the prevention, diagnosis and treatment of diet-related issues.

A B.A. in Nutrition and Wellness will graduate from Tec de Monterrey with the following competencies:

- Implement comprehensive wellbeing strategies that transform the lifestyles of individuals or communities.
- Address the nutritional care of healthy and sick individuals, resolving their nutritional and physical activity needs through nutritional medical therapy.
- Develop food products and services that will benefit the health of the population.
- Develop public nutrition projects that will contribute to solving public health problems.

CLINICAL SETTINGS AND INTERNALIZATION

In the specialization stage, you will be able to participate in state-of-the-art environments in Mexico and abroad, such as:

- Hospitals
- Integrated Care Clinics
- Research centers
- Vulnerable communities

For further information, go to:



tec.mx/lnb

CAREER FIELD

You will be able to participate professionally in the following settings:

- Private office
- Clinics, hospitals and healthcare institutions
- Consulting in the pharmaceutical and food industries
- Government companies and/or institutions focused on food services and/or prevention programs

IS THIS RIGHT FOR YOU?

If you value healthy habits, know the importance of a good diet and also have a vocation for service, then you are in the right place.

CURRICULUM

CHOOSE YOUR PATH



What you need to know about each stage of your curriculum:

Exploration

1. You will open your competency file and add to it throughout your degree program.
2. You will learn the foundations of the area of Health.
3. You will participate in fundamental and exploration challenges from the area of Health, interacting with peers from different degree programs.
4. You will study general education courses, selecting them from a collection.
5. You will participate in a challenge that integrates all the competencies to be developed in this phase.

Focus

1. You will acquire the core competencies of your degree, in other words, those that distinguish it.
2. You will participate in more focused challenges to reinforce what you have learned and broaden your basic knowledge.
3. You will have the elements to decide whether to deepen your knowledge or diversify and, subsequently, build your specialization plan.
4. The Tec Weeks, challenges and overall university experiences will enrich your file.

Specialization

1. You have decided whether to diversify or delve further into your degree, by choosing a concentration, a modality, an internship stay, to mention just a few of your options. The Tec Semester is a flexible-time space to get started.
2. You will develop the competencies related to your specialization, increasingly connected to your passions, interests and plans.
3. If you decided to opt for a concentration, on graduating you will obtain a professional concentration certificate issued by the Office of the Registrar at your campus.



SEMESTER 1			SEMESTER 2			SEMESTER 3			CHOOSE YOUR PROGRAM
Elective Course Mathematics and Science	Elective Course Mathematics and Science	Elective Course Mathematics and Science	Elective Course Humanities and Fine Arts	Elective Course Humanities and Fine Arts	Elective Course Humanities and Fine Arts	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	
Musculoskeletal System	Oxygen Supply and Consumption	Human Genetics	Embryology	Growth and Development	Renal Morphophysiology	Management and Innovation in Health	Human Microbiota	Blood and Hematopoiesis	
Digestive System	Energy Management	Endocrine System	Human Reproduction	Emotional and Behavioral Development	Nervous System	Research Methods	Public Health and Biostatistics	Introduction to Clinical Practice	
Basics of Good Health	Metabolism and Energy	Cellular and Molecular Mechanisms	Life Cycle: Fertilization and Pregnancy	Life Cycle: Childhood and Adolescence	Life Cycle: Adulthood	Exploration Topic	Healthy Environments for the Elderly	Innovation in Public Health	
Tec Week	Tec Week	Week 1B	Tec Week	Tec Week	Tec Week	Week 1B	Tec Week	Week 1B	

SEMESTER 4			SEMESTER 5			SEMESTER 6			BEGIN YOUR SPECIALIZATION
Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Ethics and Citizenship	Elective Course Ethics and Citizenship	Elective Course Ethics and Citizenship	Nutritional Therapy in Adult Obesity	Nutritional Therapy in Metabolic Syndrome	Integrative Nutrition	
Nutritional Biochemical and Clinical Assessment	Exercise Physiology	Methodology and Design of Physical Exercise Programs	Nutrigenetics: Personalized Nutrition	Nutrigenomics and Epigenetics: Personalized Nutrition	Nutraceuticals and Functional Foods	Nutrition and Physical Performance	Obesity and Metabolic Syndrome in Childhood and Adolescence	Culture and Psychology of Food	
Nutritional Diagnosis	Nutritional Intervention	Nutrition Care Process	Food Service Management	Food Science	Food Technology	Nutritional Diagnosis in Population	Nutrition Programs Design	Multidisciplinary Model of Health Care	
Tec Week	Tec Week	Week 1B	Tec Week	Tec Week	Tec Week	Week 1B	Tec Week	Week 1B	

TRIMESTER 1			TRIMESTER 2			TRIMESTER 3			TRIMESTER 4		
Bioetics	Exercise and Disease Management	Supplementation	Professional Elective I	Professional Elective II	Professional Elective III	Pathophysiology in Internal Medicine	Medical Nutrition Therapy for Metabolic Stress	Pathophysiology in Surgery	Pathophysiology in Pediatrics	Nutritional Support in Pediatrics	Pathophysiology in Gynecology
Quality Healthcare and Patient Safety	Models and Techniques for Behavior Modification	Eating Disorders	Clinical Elective I	Clinical Elective II	Clinical Elective III	Medical Nutrition Therapy in Internal Medicine I	Medical Nutrition Therapy in Internal Medicine II	Drug-Nutrient Interaction	Entrepreneurship and Management in Health	Medical Nutrition Therapy in Pediatrics II	Medical Nutrition Therapy in Gynecology
Multidisciplinary Healthcare	Clinical Nutrition in Wellness	Clinical Nutrition for Adolescents and Adults				Nutrition Support Fundamentals	Clinical Nutrition in Internal Medicine and Geriatrics	Clinical Nutrition in Surgery	Medical Nutrition Therapy in Pediatrics I	Pediatric Clinical Nutrition	Clinical Nutrition in Pediatrics and Critically Ill Pediatric Patient
						Clinical Nutrition in Internal Medicine					

- General education course
- Area exploration block (CHALLENGE)
- Disciplinary course
- Area exploration courses
- Exploration topic (CHALLENGE)
- Disciplinary block (CHALLENGE)
- Track integrating block (CHALLENGE)
- Integrating disciplinary block (CHALLENGE)



LPS

B.S. IN CLINICAL PSYCHOLOGY AND HEALTH

The mind opens doors and guides your emotions

Over the years, numerous factors have affected people's mental health and emotions. Psychologists are individuals with an admirable level of empathy who, by putting themselves in other people's shoes, dedicate their lives to listening and supporting their needs, seeking to improve their mental, physical and social health.

A B.S. Clinical in Psychology and Health will graduate from Tec de Monterrey with the following competencies:

- Develop mental health prevention and promotion strategies for individuals and groups.
- Diagnose the mental health of individuals or groups, in collaboration with other health professionals.
- Lead psychological attention for individuals or groups, selecting the appropriate approach for each particular patient.

CLINICAL SETTINGS AND INTERNALIZATION

In the specialization stage, you will be able to participate in state-of-the-art environments in Mexico and abroad, such as:

- Hospitals
- Integrated Care Clinics
- Research centers
- Vulnerable communities

For further information, go to:



tec.mx/lps

CAREER FIELD

You will be able to participate professionally in the following settings:

- Private office
- General and specialty clinics and hospitals
- Research teams
- Government health and social security organizations

IS THIS RIGHT FOR YOU?

If you enjoy listening to, helping and guiding people, and are also analytical, empathic and flexible, then you are in the right place.

CURRICULUM

CHOOSE YOUR PATH



What you need to know about each stage of your curriculum:

Exploration

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2. You will learn the foundations of the area of Health.
3. You will participate in fundamental and exploration challenges from the area of Health, interacting with peers from different degree programs.
4. You will study general education courses, selecting them from a collection.
5. You will participate in a challenge that integrates all the competencies to be developed in this phase.

Focus

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2. You will participate in more focused challenges to reinforce what you have learned and broaden your basic knowledge.
3. You will have the elements to decide whether to deepen your knowledge or diversify and, subsequently, build your specialization plan.
4. The Tec Weeks, challenges and overall university experiences will enrich your file.

Specialization

1. You have decided whether to diversify or delve further into your degree, by choosing a concentration, a modality, an internship stay, to mention just a few of your options. The Tec Semester is a flexible-time space to get started.
2. You will develop the competencies related to your specialization, increasingly connected to your passions, interests and plans.
3. If you decided to opt for a concentration, on graduating you will obtain a professional concentration certificate issued by the Office of the Registrar at your campus.

SEMESTER 1			SEMESTER 2			SEMESTER 3			CHOOSE YOUR PROGRAM
Elective Course Mathematics and Science	Elective Course Mathematics and Science	Elective Course Mathematics and Science	Elective Course Humanities and Fine Arts	Elective Course Humanities and Fine Arts	Elective Course Humanities and Fine Arts	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	
Musculoskeletal System	Oxygen Supply and Consumption	Human Genetics	Embryology	Growth and Development	Renal Morphophysiology	Management and Innovation in Health	Human Microbiota	Blood and Hematopoiesis	
Digestive System	Energy Management	Endocrine System	Human Reproduction	Emotional and Behavioral Development	Nervous System	Research Methods	Public Health and Biostatistics	Introduction to Clinical Practice	
Tec Week	Tec Week	Tec Week	Tec Week	Tec Week	Tec Week	Tec Week	Tec Week	Tec Week	
Basics of Good Health	Metabolism and Energy	Cellular and Molecular Mechanisms	Life Cycle: Fertilization and Pregnancy	Life Cycle: Childhood and Adolescence	Life Cycle: Adulthood	Exploration Topic	Healthy Environments for the Elderly	Innovation in Public Health	
Week 1B			Week 1B			Week 1B			

SEMESTER 4			SEMESTER 5			SEMESTER 6			INICIA TU ESPECIALIZACIÓN
Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Ethics and Citizenship	Elective Course Ethics and Citizenship	Elective Course Ethics and Citizenship	Clinical Psychology in Primary Care	Clinical Psychology	Psychopathology	
General Psychology	Personality Theories	Psychology of the Adolescent, Adult and Older Adult	Psychodiagnosis	Psychological Reports	Design of Psychological Assessment Instruments	Psychophysiology	Psychopharmacology	Clinical Child Psychology	
Community Psychology	Psychosocial Interventions	Psychosocial Assessment	Clinical Assessment in Psychology	Diagnosis and Psychological Interventions	Psychosocial Transformation	Health Psychology	Psychotherapeutic Models	Multidisciplinary Model of Health Care	
Tec Week	Tec Week	Tec Week	Tec Week	Tec Week	Tec Week	Tec Week	Tec Week	Tec Week	
Week 3B			Week 3B			Week 3B			

TRIMESTER 1			TRIMESTER 2			TRIMESTER 3			TRIMESTER 4		
Occipital and Parietal Lobe Syndromes	Neuropsychological Stimulation and Rehabilitation	Neurological Disorders	Basics of Clinical Child Psychology	Mental Disorders in Childhood	Psychotherapeutic Intervention Models	Professional Elective I	Professional Elective II	Professional Elective III	Biology and Psychology of Patients with Chronic Diseases	Grief in Chronic Illness	Bioethics
Temporal and Frontal Lobe Syndromes	Neurobiology of Behavior	Neuropsychiatric Disorders	Intervention Techniques in Children	Clinical Intervention with Adolescents	Psychotherapy in Adults	Clinical Elective I	Clinical Elective II	Clinical Elective III	Evidence-based Clinical Psychological Interventions	Formal and Informal Caregivers	Quality Healthcare and Patient Safety
Clinical Neuropsychology			Clinical Psychology Practice						Psychological Care in Hospitals		

- General education course
- Area exploration block (CHALLENGE)
- Disciplinary course
- Area exploration courses
- Exploration topic (CHALLENGE)
- Disciplinary block (CHALLENGE)
- Track integrating block (CHALLENGE)
- Integrating disciplinary block (CHALLENGE)



MC

PHYSICIAN & SURGEON

Promise of life

Medicine has played a fundamental role in the history of humanity and technological advancements ensure that it will continue to do so. If you are interested in becoming a Physician & Surgeon, you undoubtedly have an extremely humanitarian outlook, are sensitive to other people's needs, and are constantly looking for ways to contribute to the health and comprehensive wellbeing of the people around you.

The Physician and Surgeon program has special entry requirements and therefore the selection to this program is by invitation.

Physicians & Surgeons will graduate from Tec de Monterrey with the following competencies:

- Promote the health and well-being of human beings and their surroundings, emphasizing timely disease prevention.
- Apply the best scientific evidence available in patient care and management.
- Address human health problems, integrating the relevant information to establish the diagnosis, treatment and rehabilitation plan.

CLINICAL SETTINGS AND INTERNALIZATION

In the specialization stage, you will be able to participate in state-of-the-art environments in Mexico and abroad, such as:

- Hospitals
- Integrated Care Clinics
- Research centers
- Vulnerable communities

For further information, go to:



tec.mx/mc

CAREER FIELD

You will be able to participate professionally in diverse levels of clinical attention or pursue graduate studies in the areas of your choice.

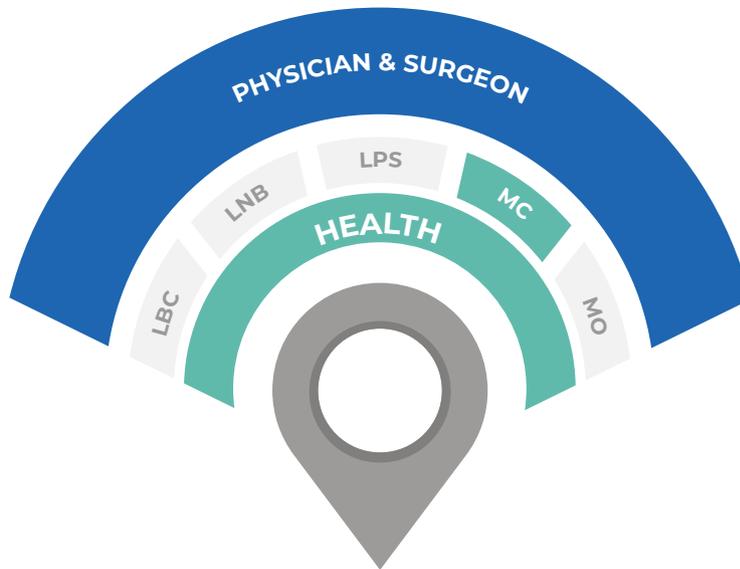
IS THIS RIGHT FOR YOU?

If you have a profound interest in science and health and have a vocation for service, then you are in the right place.



CURRICULUM

CHOOSE YOUR PATH



What you need to know about each stage of your curriculum:

Exploration

1. You will open your competency file and add to it throughout your degree program.
2. You will learn the foundations of the area of Health.
3. You will participate in fundamental and exploration challenges from the area of Health, interacting with peers from different degree programs.
4. You will study general education courses, selecting them from a collection.
5. You will participate in a challenge that integrates all the competencies to be developed in this phase.

Focus

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2. You will participate in more focused challenges to reinforce what you have learned and broaden your basic knowledge.
3. You will have the elements to decide whether to deepen your knowledge or diversify and, subsequently, build your specialization plan.
4. The Tec Weeks, challenges and overall university experiences will enrich your file.

Specialization

1. You have decided whether to diversify or delve further into your degree, by choosing a concentration, a modality, an internship stay, to mention just a few of your options. The Tec Semester is a flexible-time space to get started.
2. You will develop the competencies related to your specialization, increasingly connected to your passions, interests and plans.
3. If you decided to opt for a concentration, on graduating you will obtain a professional concentration certificate issued by the Office of the Registrar at your campus.

SEMESTER 1				SEMESTER 2				SEMESTER 3				CHOOSE YOUR PROGRAM	
Elective Course Mathematics and Science	Elective Course Mathematics and Science	Elective Course Mathematics and Science	Elective Course Humanities and Fine Arts	Elective Course Humanities and Fine Arts	Elective Course Humanities and Fine Arts	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences		Week 1B
Musculoskeletal System	Oxygen Supply and Consumption	Human Genetics	Embryology	Growth and Development	Renal Morphophysiology	Management and Innovation in Health	Human Microbiota	Blood and Hematopoiesis	Research Methods	Public Health and Biostatistics	Introduction to Clinical Practice		
Digestive System	Energy Management	Endocrine System	Human Reproduction	Emotional and Behavioral Development	Nervous System	Exploration Topic	Healthy Environments for the Elderly	Innovation in Public Health	Week 1B				
Basics of Good Health	Metabolism and Energy	Cellular and Molecular Mechanisms	Life Cycle: Fertilization and Pregnancy	Life Cycle: Childhood and Adolescence	Life Cycle: Adulthood	Week 1B							
SEMESTER 4				SEMESTER 5				SEMESTRE 6					
Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Ethics and Citizenship	Elective Course Ethics and Citizenship	Elective Course Ethics and Citizenship	Pathophysiology of Immune and Hematological Disorders	Pathophysiology of the Digestive System	Pathophysiology of Infectious Diseases		Week 1B			
Normal and Pathological Microstructure	Pathogenic Microbiota	Medical Genetics	Endocrine and Neural Ecosystem	Bioactive Molecules and Therapeutic Principles	Physiopathological Processes	Pathology of Body Systems	Pharmacology of Body Systems	Pharmacology of Antimicrobial Agents					
Basic Histopathology	Immunobiology	Heritage and Development	Bases of the Nervous and Endocrine System	Pharmacotherapy	Physical Examination	Immune Disorders	Digestive Disorders	Multidisciplinary Model of Health Care					
SEMESTRE 7				SEMESTRE 8				BEGIN YOUR SPECIALIZATION					
Pathophysiology of the Cardiovascular System	Pathophysiology of the Respiratory System	Pathophysiology of the Renal System	Pathophysiology of the Endocrine System	Physiopathology of the Nervous System	Pathophysiology of Reproduction and Pregnancy	Week 1B							
Pathology of the Vital Processes	Pharmacology of Vital Processes	Legal and Prehospital Medicine	Pathology of Biocontrol and Reproduction Systems	Pharmacology of Biocontrol and Reproduction Systems	Family Medicine								
Cardiovascular Disorders	Respiratory Diseases	Kidney Disorders	Endocrine and Metabolic Disorders	Neurological Disorders	Innovation in Primary Care								

- General education course
- Area exploration courses
- Introductory block (CHALLENGE)
- Area exploration block (CHALLENGE)
- Exploration topic (CHALLENGE)
- Track integrating block (CHALLENGE)
- Disciplinary course
- Disciplinary block (CHALLENGE)
- Integrating disciplinary block (CHALLENGE)

TRIMESTER 1			TRIMESTER 2			TRIMESTER 3			TRIMESTER 4		
Urology and Surgical Oncology	Obstetrics and Gynecology		Infectology and Dermatology	Pediatrics		Cardiology and Metabolic Diseases	Internal Medicine		Ophthalmology and Otorhinolaryngology	Surgery	
Gynecology and Obstetrics Clinic			Pediatrics Clinic			Internal Medicine Clinic			Surgery Clinic		
TRIMESTER 5			TRIMESTER 6			TRIMESTER 7			TRIMESTER 8		
Traumatology, Orthopedics and Rehabilitation	Emergency and Radiology	Bioetics	Neurology and Neurosurgery	Geriatrics and Palliative Care	Psychiatry	Professional Elective I	Professional Elective II	Professional Elective III	Elective Specialty I	Elective Specialty II	Elective Specialty III
Traumatology, Orthopedics and Rehabilitation Clinic	Emergency and Radiology Clinic	Quality Healthcare and Patient Safety	Neurology and Neurosurgery Clinic	Geriatrics and Palliative Care Clinic	Psychiatry Clinic	Clinical Elective I	Clinical Elective II	Clinical Elective III	Clinic in Elective Specialty I	Clinic in Elective Specialty II	Clinic in Elective Specialty III
		Legal Issues of Medical Practice									
		Multidisciplinary Healthcare									

- General education course
- Area exploration block (CHALLENGE)
- Disciplinary course
- Area exploration courses
- Exploration topic (CHALLENGE)
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- Integrating disciplinary block (CHALLENGE)





MO

MEDICAL AND SURGICAL DENTIST

Make me smile

In a world in which oral health has achieved significant results in obtaining a great smile, there are people who take oral health very seriously and work hard to acquire the skills needed to diagnose, prevent and treat oral and dental diseases.

Medical and Surgical Dentists will graduate from Tec de Monterrey with the following competencies:

- Promote oral health in individuals and the community, through innovative strategies for the prevention of oral problems.
- Apply evidence-based medical knowledge of oral health and dentistry to comprehensive dental-patient care, diagnosis and management.
- Perform dental treatments and oral rehabilitation for healthy patients with special needs, through a patient-centered care model.

CLINICAL SETTINGS AND INTERNALIZATION

In the specialization stage, you will be able to participate in state-of-the-art environments in Mexico and abroad, such as:

- Hospitals
- Integrated Care Clinics
- Research centers
- Vulnerable communities

For further information, go to:



tec.mx/mo

CAREER FIELD

You will be able to participate professionally in the following settings:

- Private office
- General and specialty clinics and hospitals
- Research teams
- Government health and social security organizations

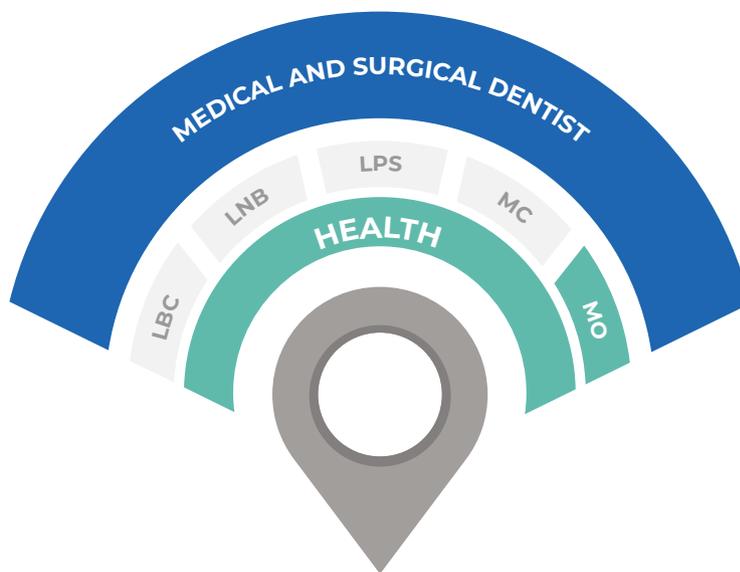
IS THIS RIGHT FOR YOU?

If you are good with people, disciplined and have a high sense of ethics then you are on the right path with this degree.



CURRICULUM

CHOOSE YOUR PATH



What you need to know about each stage of your curriculum:

Exploration

1. You will open your competency file and add to it throughout your degree program.
2. You will learn the foundations of the area of Health.
3. You will participate in fundamental and exploration challenges from the area of Health, interacting with peers from different degree programs.
4. You will study general education courses, selecting them from a collection.
5. You will participate in a challenge that integrates all the competencies to be developed in this phase.

Focus

1. You will acquire the core competencies of your degree, in other words, those that distinguish it.
2. You will participate in more focused challenges to reinforce what you have learned and broaden your basic knowledge.
3. You will have the elements to decide whether to deepen your knowledge or diversify and, subsequently, build your specialization plan.
4. The Tec Weeks, challenges and overall university experiences will enrich your file.

Specialization

1. You have decided whether to diversify or delve further into your degree, by choosing a concentration, a modality, an internship stay, to mention just a few of your options. The Tec Semester is a flexible-time space to get started.
2. You will develop the competencies related to your specialization, increasingly connected to your passions, interests and plans.
3. If you decided to opt for a concentration, on graduating you will obtain a professional concentration certificate issued by the Office of the Registrar at your campus.

SEMESTER 1				SEMESTER 2				SEMESTER 3				CHOOSE YOUR PROGRAM	
Elective Course Mathematics and Science	Elective Course Mathematics and Science	Elective Course Mathematics and Science	Week 1B	Elective Course Humanities and Fine Arts	Elective Course Humanities and Fine Arts	Elective Course Humanities and Fine Arts	Week 1B	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	Elective Course Social and Behavioral Sciences	Week 1B		CHOOSE YOUR PROGRAM
Musculoskeletal System	Oxygen Supply and Consumption	Human Genetics	Week 1B	Embryology	Growth and Development	Renal Morphophysiology	Week 1B	Management and Innovation in Health	Human Microbiota	Blood and Hematopoiesis	Week 1B		
Digestive System	Energy Management	Endocrine System	Week 1B	Human Reproduction	Emotional and Behavioral Development	Nervous System	Week 1B	Research Methods	Public Health and Biostatistics	Introduction to Clinical Practice	Week 1B		
Basics of Good Health	Metabolism and Energy	Cellular and Molecular Mechanisms	Week 1B	Life Cycle: Fertilization and Pregnancy	Life Cycle: Childhood and Adolescence	Life Cycle: Adulthood	Week 1B	Exploration Topic	Healthy Environments for the Elderly	Innovation in Public Health	Week 1B		
SEMESTER 4				SEMESTER 5				SEMESTER 6					
Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Leadership, Entrepreneurship and Innovation	Elective Course Leadership, Entrepreneurship and Innovation	Week 1B	Elective Course Ethics and Citizenship	Elective Course Ethics and Citizenship	Elective Course Ethics and Citizenship	Week 1B	Pulp Therapy	Oral and Maxillofacial Pathology	Introduction to Exodontics	Week 1B		
Dental Morphology	Oral Histology and Embryology	Clinical and Histological Foundations of Oral Pathology	Week 1B	Operative Dentistry	Dental Pharmacology	Diagnosis in Dentistry	Week 1B	Restorative Dentistry	Periodontics	Oral Microbiology	Week 1B		
Mastication Physiology	Pathophysiology of Dental Caries and Periodontal Structures	Prophæudetics Dentistry	Week 1B	Adhesion Protocol	Anesthetic Procedures in Dentistry	Surgical Basics in Dentistry	Week 1B	Endodontic and Restorative Therapy	Tooth Preservation Treatments	Multidisciplinary Model of Health Care	Week 1B		
SEMESTER 7				SEMESTER 8				BEGIN YOUR SPECIALIZATION					
Oral Surgery	Maxillofacial Surgery	Medicine in Dentistry	Week 1B	Oral Surgical Implantology	Prosthetic Implantology	Advanced Implantology	BEGIN YOUR SPECIALIZATION						
Fixed Partial Denture Prosthesis	Removable Partial Denture Prosthesis	Odontogenic Infections	Week 1B	Dental Aesthetics	Pediatric Dentistry	Malocclusion Orthodontic Treatment							
Surgery and Prosthetic Treatments in Dentistry	Prosthetic Options in Dentistry	Prosthetic Rehabilitation of Dental Patients	Week 1B	Aesthetic Procedures in Dentistry	Dental Care through the Life Cycle	Orthodontics and Orthopedics							

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TRIMESTER 1		TRIMESTER 2			TRIMESTER 3	TRIMESTER 4
Bioethics	Legal and Administrative Processes in Dentistry	Professional Elective I	Professional Elective II	Professional Elective III	Evidence-based Dentistry	Advanced Dentistry Seminar
Quality Healthcare and Patient Safety	Forensic Dentistry	Clinical Elective I	Clinical Elective II	Clinical Elective III	Dental Information Analysis	Clinical Research in Dentistry
Multidisciplinary Healthcare	Dentistry Clinic I				Dentistry Clinic II	Dentistry Clinic III

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HEALTH

With the Health entry, you have the option of moving throughout your undergraduate studies to the campus that offers the specialization you would like to pursue.

	Entry Campuses for the area of					
	HEALTH	LBC	LNB	LPS	MC	MO
Aguascalientes						
Chiapas						
Chihuahua	●					
Ciudad de México	●	●	●	●	●	
Ciudad Juárez						
Cuernavaca						
Estado de México						
Guadalajara	●	●	●	●	●	
Hidalgo						
Irapuato						
Laguna						
León						
Monterrey	●	●	●	●	●	●
Morelia						
Obregón						
Puebla						
Querétaro						
Saltillo						
San Luis Potosí						
Santa Fe						
Sinaloa						
Sonora Norte						
Tampico						
Toluca						
Zacatecas						

WHERE ARE THESE DEGREES...

Navigation icons: back, home, forward



Tecnológico
de Monterrey

Dr. Edwin Ramos Sandoz
Director de Centro
Médico Ciudad Monterrey

CAAD

UNLEASH YOUR POTENTIAL TO TRANSFORM

At Tecnológico de Monterrey we're looking for students willing to be better for the benefit of others, people with the humility and courage to challenge paradigms, with the ambition to improve, who embrace the most advanced technical knowledge, and with an ethical and humanistic profile, who dare to go forward, more willing to be than to have.

For further information on the degrees from the area of Health, go to:

