



TEHRAN UNIVERSITY  
OF  
MEDICAL SCIENCES

## PROGRAM **MATRIX**

Non-Degree Programs

2015/2016  
[www.gsia.tums.ac.ir](http://www.gsia.tums.ac.ir)



## ABOUT TUMS

Tehran University of Medical Sciences is the oldest and the most well-known medical center in Iran. TUMS is one of the country's top research universities which accepts applications from the most qualified students and has the largest schools of medicine, dentistry, pharmacy, rehabilitation, allied medical sciences, public health, and nursing and midwifery in Iran, plus a virtual school, as well as over 100 specialized research centers such as Science and Technology in Medicine, Rheumatology, Digestive Disease, Skin Diseases and Leprosy, Trauma, Hematology and Oncology, Cardiovascular Diseases, Endocrinology and Metabolism, Reproductive Health, Urology, Immunology, and Asthma and Allergy.

In order to meet individual wishes and requirements of various international students from different countries, TUMS offers several types of non-degree programs varying in duration, from one week to one year. Upon finishing these programs, students will be awarded a certificate.

Students can apply for the following non-degree programs offered by our university:

- Post-Doc Opportunities (research attachments)
- Training Programs (less than a year)
- Medical Electives (clinical rotations/internships)
- Summer Programs

## Post-Doc Opportunities

All TUMS schools and research centers offer a wide range of courses which are suitable for both academics and postgraduate students. Below are a few of the available research opportunities:

- One-year Post-Doc Fellowship on Neuroscience at TUMS School of Advanced Technologies in Medicine
- Post-Doc program on various subjects at TUMS Eye Research Center.
- Post-Doc program in Developing Advanced Image Processing and Analysis Algorithms for Brain Tumors at the Department of Medical Physics and Biomedical Engineering, TUMS School of Medicine.

You can find more comprehensive information on our website, where you will have access to our schools' and research centers' websites as well. Visit:  
<http://gsia.tums.ac.ir/en>



## Training Programs

Various training programs are offered by TUMS schools. The duration of these programs differs from less than a week up to twelve months. Students can choose specific courses from the programs offered. Other training programs can and may be reviewed and arranged as per the request of applicants.



## School of Advanced Technologies in Medicine

- Biotechnology
- Electrospinning and its Application in Medicine
- Tissue Engineering

## School of Dentistry

- Endodontics Surgery
- Implantology
- Laser
- Microscopic Endodontics



## **School of Medicine**

### **Department of Anatomy**

- Education in Anatomy

### **Department of Biochemistry**

- Biochemistry

### **Department of Pharmacology**

- Pharmacology
- Toxicology

### **Department of Physiology**

- Physiology
- Sport Physiology

### **Department of Medical Physics and Biomedical Engineering**

- Clinical Application of fMRI and DTI
- MRI-Molecular Imaging (MRMI)
- Theoretical and Practical Training in MRI (a basic course on MR Physics for technologists and radiologists)
- Theoretical and Practical Training in MRI (an advanced course on MR Physics for technologists and radiologists)
- Theoretical and Practical Training in MRI (an intermediate course on MR Physics for technologists and radiologists)

### **Department of Anesthesiology Critical Care and Pain Management**

- Critical Care
- Pain Management

### **Department of Surgery**

- Breast Surgery
- Laparoscopic Surgery

### **Department of Nuclear Medicine**

- Nuclear Cardiology for Physicians
- Nuclear Cardiology for Technologists

### **Department of Obstetrics and Gynecology**

- Diagnostic & Operative Laparoscopy
- Diagnostic Hysteroscopy
- Observational IVF, ART
- Operative Hysteroscopy

### **Department of Occupational Medicine**

- Occupational Lung Disease and PFT
- Occupational Medicine
- Sleep Disorder and Polysomnography

### **Department of Ophthalmology**

- Cataract Surgery
- Cornea & External Diseases
- Glaucoma
- Medical Retina
- Oculoplastics
- ROP & Pediatric Retina
- Strabismus
- Vitreo-Retinal Surgery

### **Department of Radiation Oncology**

- Radiation Oncology
- Radiotherapy Physics

### **Department of Sports Medicine**

- Team Physician



### **School of Nursing and Midwifery**

- Critical Care Nursing (one month)
- Emergency Nursing Care (one month)
- Maternal & Child Health Care (one month)
- Nursing Care in Neonatal Intensive Care Unit and Pediatric Care Units (one month)

### **School of Nutritional Sciences and Dietetics**

- Nutritional Sciences
- Public Health in Nutrition

### **School of Public Health**

- Bacteriology
- Biostatistics
- Disaster in Emergency
- Environmental Health Engineering
- Epidemiology
- Ergonomics
- Health & Food Safety
- Health Economics
- Health Education
- Health Management
- Health Policy
- Health Technology Assessment
- Immunology
- Medical Entomology and Vector Control
- Microbiology of Food
- Mycology
- Occupational Health
- Parasitology
- Virology





### **School of Rehabilitation**

- Workshop of Assessment and Clinical Application of Head Impulse Test in Balance System Disorders

### **School of Traditional Medicine**

- Acupuncture
- Cupping and Hijamat
- Lifestyle in Iranian Medicine
- Medical Massage
- Nutrition in Traditional Medicine

### **Endocrinology and Metabolism Research Institute (EMRI)**

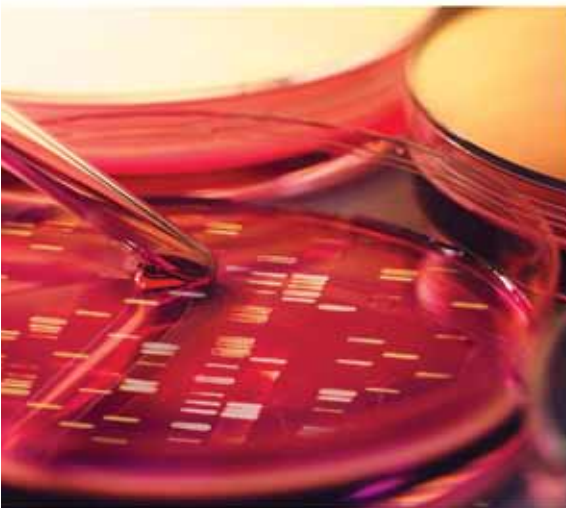
- Osteoporosis Treatment and Prevention

### **Eye Research Center (ERC)**

- ICO Fellowship (three months)

### **Immunology, Asthma and Allergy Research Institute (IAARI)**

- Research Courses in Clinical Immunology (one to six months)
- Research Fellowship (six to twelve months)



**Pharmaceutical Sciences  
Research Center (PSRC)**

- Clinical Pharmacy
- Pharmacology and Toxicology

**Medical Imaging Center of Imam Khomeini Medical Center**

- Educational Course on Neurointervention (three months)
- Educational Course on Nonvascular Intervention (three months)
- Educational Course on Oncointervention (three months)
- Educational Course on Peripheral Vascular Intervention (three months)

**Laparoscopy Training Center**

- General Laparoscopy Training Program (three months)
- Women Laparoscopy Training Program (three months)

**Vali-e Asr Reproductive Health  
Research Center**

- Reproductive Endocrinology and Infertility

**Cancer Institute at Imam Khomeini Medical Center**

- International Course on Breast Imaging (three months)

**Department of Anesthesiology and  
Pain Medicine at Rasoul Akram  
Medical Center**

- Regional Anesthesia

## Medical Electives (Clinical Rotations/Internships)

We welcome elective medical students from other universities. This is a great opportunity to come and learn alongside TUMS medical students and enjoy the academic and social opportunities that TUMS has to offer. Available departments are listed below. Placements are arranged in 16 TUMS teaching hospitals.

### School of Medicine

- Anesthesiology
- Cardiology
- Dermatology
- Emergency Medicine
- ENT
- Family Medicine
- Forensic Medicine
- General Surgery
- Geriatrics
- Infectious Diseases
- Internal Medicine
- Neurology
- Neurosurgery
- Nuclear Medicine
- Obstetrics and Gynecology
- Occupational Medicine
- Ophthalmology
- Orthopedic Surgery
- Pathology
- Pediatrics
- Psychiatry
- Radiology
- Radiotherapy
- Sports Medicine
- Urology



### School of Dentistry

- Community Oral Health
- Dental Biomaterials
- Endodontics
- Oral & Maxillofacial Medicine
- Oral & Maxillofacial Pathology
- Oral & Maxillofacial Radiology
- Oral & Maxillofacial Surgery
- Orthodontics
- Pediatric Dentistry
- Periodontics
- Prosthodontics
- Restorative Dentistry







### **School of Nursing and Midwifery**

- Community Health Nursing
- Geriatric Nursing
- Intensive Care Nursing
- Maternal & Child Health
- Medical Surgical Nursing
- Midwifery
- Pediatric Nursing and NICU
- Psychiatric Nursing
- Reproductive Health

### **School of Pharmacy**

- Visiting pharmacy and medical student clerkships in Intensive Care Medicine at Sina Hospital, Division of Critical Care Medicine and Critical Pharmacy Services



## Summer Programs

A number of schools offer specially designed summer programs. These summer programs are listed below:

### School of Nursing and Midwifery

- Neonatal Critical Care
- Nursing Care in Neonatal Intensive Care Units and Pediatric Care Units
- Maternal & Child Health Care
- Emergency Nursing Care
- Nursing Informatics
- Critical Care Nursing

### School of Traditional Medicine

- Principles of Acupuncture
- Cupping and Hijamat
- Medical Massage
- Principles of Persian Traditional Medicine
- Herbal Medicine
- Lifestyle in Traditional Medicine
- Nutrition in Traditional Medicine

### Virtual School

- Research in Education (online program)

For more detailed and comprehensive information about our academic programs.  
Please visit our website via the link below:  
[www.gsia.tums.ac.ir/en](http://www.gsia.tums.ac.ir/en)



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