



# University of Szeged

## Faculty of Medicine

## Faculty of Dentistry

## Faculty of Pharmacy

*Szeged, Hungary*



The University of Szeged is proud to be listed as one of the Top Universities according to the Academic Ranking of World Universities in five consecutive years (2003–2007).

Doctor of Medicine  
Doctor of Dental Medicine  
Master of Pharmacy  
Preparatory Course

ENGLISH-LANGUAGE PROGRAMS  
Admission and Academic Bulletin

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*Albert Szent-Györgyi*

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*Nobel Prize in Physiology or Medicine*

*70<sup>th</sup>*  
*– Anniversary –*

2008/2009

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## Local Representative



## UNIVERSITY OF SZEGED, HUNGARY

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<b>Vice Rector for General and Strategic Affairs</b>	Prof. Béla RÁCZ
<b>Vice Rector for Scientific and International Relations</b>	Prof. Imre DÉKÁNY
<b>Vice Rector for Research Development and Innovation</b>	Prof. Imre KIRICSI
<b>Vice Rector for Educational Affairs</b>	Prof. Béla PUKÁNSZKY
<b>Vice Rector for Student Affairs and Public Relations</b>	Prof. Attila BADÓ
<b>General Secretary of the University</b>	Dr. Mária MERÉNYI
<b>General Director for Finance and Maintenance</b>	Dr. Ferenc TRÁSER

### FACULTY OF MEDICINE

<b>Dean</b>	Prof. György BENEDEK, M.D., Ph.D., D.Sc.
<b>Vice Dean for Scientific Affairs</b>	Prof. Gábor JANCSÓ, M.D., Ph.D., D.Sc.
<b>Vice Dean for General and Strategic Affairs</b>	Prof. Lajos KEMÉNY, M.D., Ph.D., D.Sc.
<b>Vice Dean for Clinical Affairs</b>	Prof. László THURZÓ, M.D., Ph.D.
<b>Vice Dean for Educational Affairs</b>	Prof. Sándor TÚRI, M.D., Ph.D., D.Sc.
<b>Head of the Dean's Office</b>	Dr. András LEDNITZKY, L.D.

### FACULTY OF DENTISTRY

<b>Dean</b>	Prof. Katalin NAGY, Ph.D., D.DS.
<b>Vice Dean</b>	Dr. Gábor S. KOCSIS, Ph.D., D.DS.
<b>Head of the Dean's Office</b>	Dr. András LEDNITZKY

### FACULTY OF PHARMACY

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<b>Vice-Deans</b>	Prof. Piroska RÉVÉSZ, D.Pharm., Ph.D. Prof. Judit HOHMANN, D.Chem., Ph.D., D.Sc.
<b>Head of the Dean's Office</b>	Dr. Ilona LANTOS, D.Pharm.

### Foreign Students' Secretariat

<b>Program Director</b>	Prof. Gyula SZABÓ, M.D., Ph.D., D.Sc.
<b>Educational Advisors</b>	Prof. Botond PENKE, D.Chem., Ph.D., D.Sc., Corresponding member of the Hungarian Academy of Sciences
<b>Advisor on housing affairs</b>	Dr. András RINGLER, M.Sc., Ph.D.
<b>Head of the Foreign Students' Secretariat</b>	Prof. Gábor TÓTH, Ph.D., D.Sc. Éva CSÁSZÁR
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	<i>Fax:</i> (36-62) 545-028, 544-562
	<i>E-mail:</i> english.program@ medea.szote.u-szeged.hu
	<i>Home Page:</i> www.szote.u-szeged.hu/angoltit

### Student Services Center (Entrance examinations abroad)

	College International
<i>Mail:</i>	H-1406 Budapest 76, P.O. Box 51, Hungary
<i>Address:</i>	H-1071 Budapest, VII. Bethlen Gábor tér 2, Hungary
<i>Phone:</i>	(36-1) 413-3014, 413-3015
<i>Fax:</i>	(36-1) 413-3030
<i>E-mail:</i>	info@studyhungary.hu
<i>Home Page:</i>	www.studyhungary.hu

## General Information

### Szeged – a University Town on the River Tisza

Szeged – a traditional university town with 30,000 students – is located 175 km south of Budapest. Szeged is conveniently accessible from Budapest by a two-hour Intercity train journey. The second biggest river in Hungary, the Tisza provides a beautiful setting for the Hungarian “City of Sunshine”.

### The University of Szeged is 426 years old 1581–2007

Before the 12<sup>th</sup> century, intellectual and scholarly life concentrated in the monasteries. With the growing professionalisation of society in the 12<sup>th</sup> and 13<sup>th</sup> centuries, demand increased for educated professionals. The universities appeared in Europe from the 11<sup>th</sup>–12<sup>th</sup> century. Medieval universities were established for the study of arts, law, theology and medicine. Universities were not defined by location and space but by individuals banded together as a corporation. The end of the medieval period signalled the arrival of modern universities where teaching and research met.

In **1581**, following the establishment of universities in other regions of Central and Eastern Europe, *István Báthory*, the Prince of Transylvania, issued a founding document for a higher educational institute in Kolozsvár (Cluj-Napoca). The Jesuit Academy (*Societatis Jesu Academia Claudiopolitana*) was organized with two faculties, the Faculty of Philosophy and the Faculty of Theology. The academy was meant to have the rank of a university from the beginning; Prince Báthory endowed the institute with the right to confer baccalaureate and master’s degrees on its students. At that time, the university held a unique place in the intellectual activity of Hungary; it was the only institute for higher education in Hungary.

The academy was soon closed due to religious and political turmoil, but the Jesuits re-established it and the institute gained more stability and prestige in the 17<sup>th</sup> century.

From **1753**, according to a decree passed by the Holy Roman Empress and Queen of Hungary and Bohemia, *Maria Theresia*, the institute functioned as a university, where teaching was carried out in German. She was one of the most significant proponents of enlightened absolutism; her educational reforms were highly lauded. **1774** saw not only the introduction of mandatory education but also the start of change for the University of Kolozsvár. After the Society of Jesus had been abolished, Maria Theresia entrusted the *Piarists* with the reorganization of the institute. As a result of the restructuring – in addition to the Faculties of Theology and Arts – two new faculties were established, the Faculty of Law (1774) and the Faculty of Medicine-Surgery (**1775**).

Later on, these faculties served as the basis for the *Hungarian Royal University of Kolozsvár*, which was founded by King *Francis Joseph I* and the Hungarian Parliament in **1872**. In **1881**, the university was renamed after the king and bore his name until 1940.

In 1919, the university had to leave its founding place and after a brief stay in Budapest, found new home in Szeged. From **1921** until 1940 the *Ferenc József Tudományegyetem* (Francis Joseph University) gained more and more prestige. When in **1940** the university was divided and part of it moved back to Kolozsvár, the remaining staff and students, the laboratories and the library were reorganized. The university took the name of *Miklós Horthy*, who was a former Governor of Hungary. The first rector of this institute was *Albert Szent-Györgyi*, who received the most prestigious award of sciences in 1937, the Nobel Prize, for his research conducted at the university.

After World War II the institute assumed the name University of Szeged. In **1951** the Faculty of Medicine formed an independent institution under the name *Medical University of Szeged*. The pharmacy training was started as an independent faculty (separate from the medical faculty) in **1957**, and the Division of Dentistry as part of the Faculty of Medicine in **1962**. The English-Language Program for foreign students was established in **1985**. From **1999** there is also a German-Language Program at the Faculty of Medicine. In **1987** the University assumed the name of its former Biochemistry Professor, Dean of the Faculty of Medicine, Rector, and Nobel Prize Laureate, Albert Szent-Györgyi who was first to isolate vitamin C, extracted from paprika.

In **2000** the Albert Szent-Györgyi Medical University became again an integrated part of the University of Szeged. The Faculty of Medicine and the Faculty of Pharmacy functioned as the *Albert Szent-Györgyi Medical and Pharmaceutical Center* until July 2007. The Faculty of Dentistry was founded in January **2007**.

The medical faculties obtain their basis for education by running a high-level clinical and research work. The task of the faculties is represented by three different fields: education, research-work, prevention-treatment.

*The University of Szeged is one of the most distinguished universities in Hungary and is proud to be considered as the intellectual successor of the University of Kolozsvár founded in 1581.*

## Facts and Figures

### Number of students in the Foreign Language Programs

In the academic year 2007/2008. there are around 650 international students at the Faculty of Medicine (English and German Program), 70 at the Faculty of Dentistry, 60 at the Faculty of Pharmacy and around 100 in the Preparatory Courses.

### University Libraries

In December 2004 a 14,684 m<sup>2</sup> new building for the Main University Library was opened. At present the Library possesses more than 1.8 million library items – books, periodicals, manuscripts, microfilms and other documents. Out of these around 138,000 books and periodicals are of medical nature. The reading rooms of the library are spread on 4 floors and are equipped with an open access collection of 350,000 volumes. The reading rooms are furnished with 1000 seats and approx. 300 computers with Internet access. This is the largest library in Central Eastern Europe. The building itself also functions as a Conference Center. It is the largest conference center in the region that gives place to national and international conferences, exhibitions and other programs. It has more than 1300 seats in 6 halls, a theatre-hall with 700 seats, a video-conference room, an exhibition-hall on more than 200 m<sup>2</sup>. For further information please check the library's website: [www.bibl.u-szeged.hu/index-ang.html](http://www.bibl.u-szeged.hu/index-ang.html).

### University Hospital

The University Clinics with 1,200 beds form one of the regional medical centers in Hungary. The institution maintains high standards with sophisticated equipment and highly competent medical staff assuring superior therapy and training. Areas of study and major research efforts include endocrinology, immunology, cardiovascular system, neurobiology, gastroenterology, perinatal and pediatric diseases, nuclear medicine, etc.

An indication of the impact of research conducted at the University of Szeged is that the biomedical and clinico-pharmacological scientists are cited frequently in the scientific literature.

Clinically oriented courses on various subjects are organized periodically. Special Ph.D. programs are arranged, along with individual postgraduate training for Hungarian and foreign colleagues.

## Accreditation and International Recognition of the Degrees

The Albert Szent-Györgyi Medical and Pharmaceutical Center is part of a state university. The medical and pharmaceutical programs were accredited by the Hungarian Accreditation Board in 1998. The accreditation was renewed in the year 2005. The medical school is listed in the directory of the World Health Organization. The medical program fulfilled all the criteria of a visiting committee of the New York State Educational Department in April 2002.

In 2005 it was certified by SGS (Société Générale de Surveillance – the world's leading inspection, verification and certification company) that the healthcare system of the Albert Szent-Györgyi Medical and Pharmaceutical Center meets the requirements of the ISO 9001:2000 and KES 2.0 standards.

In a university survey published in 2002 by UnivPRESS, the University of Szeged was ranked as first within the Hungarian medical universities on the basis of the value and marketability of the training and the degree received in Szeged.

The Faculty of Medicine and the Faculty of Pharmacy have been awarded the title Center of Excellence (for the period between the years 2006–2011) by the Hungarian Accreditation Committee.

The Faculty of Medicine is proud that its academic achievements have also been recognized by the State of California. Due to the accreditation, which was granted in September 2003, English-program students can now participate in clinical clerkships in approved California training sites. Graduates of the English program can also take part in postgraduate training programs in California and become licensed in California, provided all licensing requirements are satisfied.

According to a survey conducted by Shanghai Jiao Tong University Institute of Higher Education (in four consecutive years: 2003-2006) University of Szeged is listed among the Top European and Top World Universities.

If you would like to find out more about this issue go to: <http://ed.sjtu.edu.cn/ranking.htm>

## International Programs

The English-language Program offered for foreign students at the Faculty of Medicine and Faculty of Pharmacy started in the academic year 1985/86 and 1986/87 respectively. In 1999 a German-language medical program was also introduced for the first two years. In the academic year 2004/05 the English-language dentistry-program was launched. Except for the language of instruction, the curricula for medical, pharmacy and dentistry students correspond in subjects and duration with those for the Hungarian students.

### Medical program

The program covers 6 years, that is, 12 semesters. Out of these the last two semesters are the clerkship year. For proper accomplishment of clinical practice certain proficiency in Hungarian language is necessary. Medical students take part in the work of the clinical departments and the teaching hospitals during the third, fourth, fifth, and sixth years of the curriculum. The curriculum is concluded by a State Board Examination. Our degrees are accepted in several countries of the world. Graduates are entitled to apply for hospital residency places worldwide, **citizens of the EU and EEC will receive their license automatically within the Community**, furthermore all graduates are entitled to participate in the US Medical Licensing Examination (USMLE).

### **Dentistry program**

The program covers 5 years, that is, 10 semesters. After the successful completion of the State Board Examination candidates are awarded the title Doctor Medicinae Dentaire (dentist; D.M.D.).

### **Pharmacy program**

The program covers 5 years, that is, 10 semesters. At the conclusion of the program (State Board Examination), a Master's Degree is granted for those who have met the requirements of the training. Pharmacy students work in pharmacies during summers and the last term.

### **B.Sc./M.D. program – Anatomy Summer Course**

The tradition and teaching experience of 82 years concentrated in a 2 weeks' long intensive gross anatomy workshop, using the world-famous human anatomy preparations of the Gellért Museum in Szeged.

**Precondition for participation in the course:** B.Sc. Degree in Natural, Life, Biomedical or Neuro Sciences

**Aim:** To repeat the clinically most important gross anatomy knowledge in order to get admission to the second year medical course.

**Schedule:** Gross anatomy practicals every day (except Sunday) from 9 am to 6 pm. Dissection and demonstration sessions tutored by the senior medical staff of the Department. Short seminars supplying the necessary theoretical knowledge, and histological background for gross anatomy.

**Time:** Mid-August 2008

**Place:** University of Szeged – Anatomy Department

*For more information contact the Foreign Students' Secretariat or see the website.*

### **Preparatory Courses**

These English and German language courses are organized for students who require additional instruction or review in basic sciences and English language to prepare for the entrance examination for the regular degree programs of the University. Completion of these courses does not imply or assure admission to the degree programs at the University of Szeged, but it improves the chance of passing the entrance examination at the end of the course. Progress is checked on a regular basis. The language of the courses is English or German. Subjects taught are Biology, Chemistry, Chemical Calculations, Physics, Medical English and Hungarian language. The duration of the course organized by the University of Szeged is eight months, starting in October 1 each year. The courses accept 35–40 students.

According to the new governmental regulation pre-medical students are entitled to receive a *student card* from the academic year 2006/2007. The student card provides the following discounts:

- 67,5% discount on trains and buses within Hungary
- cheaper student pass for local transport
- discounts at local shops
- cheaper fares in certain taxis

*For more information contact the Foreign Students' Secretariat or see the website.*

### **Statement of Non-Discrimination**

The University does not discriminate on the basis of race, color, national or ethnic origin, religion, sex, marital status or handicap.

## **Application and Admission Requirements**

### **(Medical, Dentistry, Pharmacy and Preparatory Course Programs)**

#### **Application Requirements**

Applications are accepted from graduates of accredited high schools or colleges/universities. Competence in English language, oral and written, is part of the entry requirement for the University. Applicants are preferred who have studied Biology, Chemistry (General, Inorganic, Organic) and Physics in high school.

Holders of the following degrees can be exempted from sitting for the entrance examination:

#### **1. International Baccalaureate**

Applicants have to have achieved a grade of at least 5 in the following subjects:

- English
- 2 natural science subjects (Biology, Chemistry or Physics)

#### **2. GCE (General Certificate of Education) A or A+ level** with a result of at least B+ in 3 natural science subjects

#### **3. B. Sc. Degree** in Natural, Biomedical, Life Sciences, Chemistry, Biology

**Competence in English Language is also an admission requirement.**

**Special consideration will be given to those applicants who have been recommended by former graduates of the University.**

#### **Transfer from other Universities**

Students who have successfully pursued medical, dental or pharmaceutical studies at other accredited Universities can apply for admission without the need to take an entrance examination. Subjects of previous studies identical or similar (at least 75%) to the curriculum of the University of Szeged can be approved, meaning that admission to an upper year might be possible. Approval for admission of transfer students is the competence of the Program Director and the Academic Board of the Faculties.

#### **Deadline for Application**

The deadline for application is June 30, 2008. Applicants are asked to apply as early as possible. Please note that places are offered on a first come first served basis. If you fail to fulfill the requirements your admission will be suspended and you will be registered on the waiting list. Late applicants are subject to place availability.

The Faculty of Pharmacy reserves the right of postponing the start of the class until 2009, in case of non-sufficient number of international students.

#### **Application Procedures**

Applications should be sent to your local representative (see the list of representatives at <http://www.studyhungary.hu>) or if there isn't any in your country, to the

#### **Foreign Students' Secretariat**

**Dóm tér 12., Szeged 6720 Hungary**

**Tel: +36-62-545-458 Fax: +36-62-545-028**

**E-mail: [english.program@medea.szote.u-szeged.hu](mailto:english.program@medea.szote.u-szeged.hu)**

The application form can also be sent online (check the Secretariat's website for details). In this case the Secretariat will forward your application to the representative concerned, who will contact you. The hard copy of the application (filled out application form and the rest of the items requested) has to be sent to the representative.

**Please note that all the documents can be accepted only in English, furthermore all the transcripts and high school diplomas have to be attested copies in English language or certificates with an authorized English translation.**

The following documents have to be submitted:

- 1. Filled and signed Application Form.**
- 2. School Leaving Certificate** from an accredited high school/senior secondary school and **certif-**

icates listing all the subjects you have taken and the grades you have achieved.

Transfer students also have to submit their **official University transcripts and course descriptions**. These documents should be sent to us directly by your school.

3. **Curriculum Vitae** (a sample can be downloaded from the Secretariat's website).
4. **One recent photo** (passport size) – to be stucked onto the Application Form
5. **Medical Certificate** – the form can be downloaded from the Secretariat's website.
6. **USD 150 Application Fee** (non-refundable) is payable to your local representative. If there is no such, then directly to the University.  
Payments have to be made to the following bank account. **Magyar Külkereskedelmi Bank Nyrt., H-6720 Szeged, Kölcsey u. 8., Hungary, International account No.: HU14-1030-0002-6610-3177-2700-4013. Swift code: MKKB HUHB**
7. **Photocopy of your passport**. (The validity of which has to exceed that of the requested visa by at least 3 months)

### Entrance Examinations

Entrance examinations are held between February and July in Hungary and at different locations in Europe, Asia, Africa and the United States. Detailed information regarding the entrance examination will be sent after the receipt of the application. If the entrance exam is taken in the homeland of the applicant, information about examination will be given by your representative. The applicants are allowed to participate in a maximum of two examinations during one application period. The exam consists of a written and an oral part.

USD 250 Examination Fee is to be paid if the examination takes place in Szeged. In case of transfer students (when the student is subject to take an evaluation examination), the examination fee is 100 USD per subject. An unsuccessful evaluation exam

cannot be repeated. In case the entrance examination takes place in the home country of the applicant, information about Application and Examination Fee will be given by your representative.

### After Acceptance

If you got admitted to one of our programs you will receive a **Letter of Admission** and a **Welcome Package** which contains useful information regarding your studies and your stay in Hungary. The documents will be sent to you first as an e-mail attachment, the hard copy will be mailed to you either by your representative or directly by our University.

This is what you have to do after having received the Letter of Admission:

1. Send us the filled Proof of Enrollment and the signed Student Payment Agreement.
2. Transfer the deposit or tuition fee (defined in your letter) to the University's bank account.
3. Submit the missing application documents (if any).

**Should you fail to fulfill the above requirements till the deadline indicated in your Letter of Admission, your admission will be suspended and you will be registered on the waiting list.**

### Entrance Examination Topics

#### Physics

- Describing motion (distance, speed and acceleration)
- Newton's laws of motion
- Scalar and vector quantities
- Mechanical work, kinetic and potential energy
- Elastic and inelastic collisions, conservation of linear momentum
- Uniform circular motion, centripetal force
- Mechanical advantage, simple mechanical tools (the inclined plane, the screw, the pulley)
- Pressure in fluids (Pascal's principle), Archimedes' principle, The hydraulic press
- Harmonic motion, Hooke's law

- Wave motion, longitudinal and transverse waves, resonance
- Kinetic theory of gases, the temperature
- The first and second laws of thermodynamics
- The electric field, Coulomb's law
- The electric current, Ohm's law
- Simple electric circuits. Kirchoff's laws
- Electromagnetic induction, the transformer
- Propagation of light, reflection and refraction, optical lenses mirrors
- The structure of atoms, the electron shell and the atomic nucleus
- X-rays
- Radioactivity

#### **Textbook**

Modern technical Physics by Arthur Beiser, publisher: Benjamin-Cummings Publishing Company 4th edition, (January 1983), ISBN: 080530682X

### **Chemistry**

#### **General Chemistry**

- Chemical reactions, types of chemical reactions
- The structure of the atom
- The composition of nucleus
- Isotopes
- Electronic structure of the elements (quantum numbers, orbital, electronic configuration)
- Periodic table, periodic perspective: atomic and ionic radii, ionization energy, electron affinity, electro negativity
- Chemical bonds, the metallic, ionic and covalent bonds
- Intermolecular forces
- Changes of state of the matter, gaseous, liquid and solid states, relationship between phase diagrams
- Aqueous solutions, electrolytes and nonelectrolytes, acids and bases.

#### **Inorganic Chemistry**

- Hydrogen and oxygen, oxidation state, oxidation and reduction
- Properties and reactions hydrogen and oxygen, compounds of hydrogen and oxygen

- The halogens, compounds of the halogens
- Noble gases, sources and uses of noble gases
- Nitrogen, phosphorous, and sulfur
- Industrial acids, compounds of nitrogen, phosphorus, and sulfur
- Carbon, allotropic forms of carbon, inorganic compounds of carbon
- Metals and metallurgy
- The s- and p-block metals, transition metals

#### **Organic Chemistry**

- Covalent bonds of carbon, multiple covalent bonds in carbon compounds
- Hydrocarbons, alkenes and cycloalkenes alkenes and alkynes
- Aromatic hydrocarbons, heteroaromatic compounds
- Alcohols and ethers aldehydes and ketones
- Carboxylic acids, calculation of acidity
- Salts, detergents
- Esters and anhydrides
- Amines and amides, calculation of basicity
- Halogen, sulfur, phosphorus containing compounds
- Isomerism in organic chemistry, structural, geometrical and optical isomers

#### **Textbook**

McMurry, J., Fay, R.C.: Chemistry, 4th edition, Ed.: Prentice-Hall International, Inc., Englewood Cliffs, New Jersey, 07458, 2001

### **Biology**

#### **1. The Living World**

- Classification
- Levels of organization

#### **2. Cell Biology**

- Chemical Components of a Cell
- Elements and inorganic compounds
- Lipids, carbohydrates, proteins and nucleic acids colloidal systems
- Cellular Metabolism
- Enzymes
- Energy production in glycolysis, Krebs cycle and terminal oxidation Photosynthesizes

- The biosynthesis of lipids, carbohydrates, proteins and nucleic acids
- Cellular Ultrastructure (Organelles), Cellular physiology, Membrane transport
- Endocytosis and exocytosis
- The action potential cellular movements

### 3. Organic Biology

- Nutrition
  - Respiration
  - Excretion
  - Circulation Locomotion
  - Reproduction
  - Sexual and asexual reproduction growth and development
  - Regulation
  - Homeostasis and regulation by hormones
  - Nervous regulation
  - The nervous system
  - The synapse and neurotransmitters
  - Autonomic nervous system
  - The spinal cord
  - The brain
  - Memory and sleep
  - Perception
  - Receptors and perceptive organs
  - The evolution of the systems listed above
  - Structure and function of the corresponding human-organs
  - Animal behavior
  - Innate and learned behavior
- ### 4. The Environment
- Ecology, ecosystems
  - Food chains, limiting factors, cycles in nature
  - Populations and communities

### 5. Genetics

- Molecular genetics
- Properties of the genetic material
- Mutation, recombination
- The genetic code
- The operon
- Classical genetics
- Modes of inheritance (discontinuous traits)
- Linkage
- Sex chromosomes
- Continuous traits genetic counselling

### 6. Evolution

- Population genetics
- Chemical and biological evolution
- Human evolution

#### Textbook

John H. Postlethwait and Janet L. Hopson: The Nature of Life 3rd edition. McGraw-Hill, Inc. 1995. ISBN 0-07-113600-2

#### Useful websites for students studying

##### Molecular and cell biology

- <http://www.cellbio.com>
- <http://www.cellbioed.org>
- <http://www.cellsalive.com>
- <http://www.bioanim.com>
- [http://www.steve.gb.com/science/cell\\_biology.html](http://www.steve.gb.com/science/cell_biology.html)

#### Useful websites for students studying

##### Genetics

- <http://www.doegenomes.org>
- <http://www.KoshlandScienceMuseum.org>
- <http://www.synapses.co.uk/genetics>
- <http://www.clcbio.com>

## After Acceptance

### Welcome Package

The University of Szeged welcomes all international students wishing to study in Hungary.

A Welcome Package will be automatically sent to you after acceptance in order to insure your safe arrival and a smooth adaptation to your new environment. The Welcome Package includes all the necessary information on services regarding visa, transfer to Szeged, arrangement of temporary and final accommodation, purchase and order of textbooks, health insurance.

For arrangement of flight tickets contact your local representative.

The Foreign Students' Secretariat also provides help with the arrangement of temporary accommodation (booking rooms at hotels or guest houses).

### Useful links

Hungary: [www.fsz.bme.hu/hungary/homepage.html](http://www.fsz.bme.hu/hungary/homepage.html)

Szeged: <http://www.szegedportal.hu>

Ministry of Foreign Affairs: <http://www.mfa.gov.hu>

Malév – Hungarian Airlines: <http://www.malev.hu>

Timetable of trains: <http://www.elvira.hu/>

University of Szeged: <http://www.u-szeged.hu>

### Passport and Visa

Since May 1, 2004, when Hungary joined the European Union, EU nationals wishing to pursue studies in Hungary do not need a visa. They only have to apply for a residence permit once they arrived in Hungary.

Non-EU citizens are required to have a visa. When applying for a visa, students need a valid passport (the validity of which has to exceed that of the requested visa by at least three months). A D5 visa is required for every foreigner arriving in Hungary to study for more than three months. Students have to get their visa stamped when entering the country.

For details regarding the visa and downloading the application form visit: [www.kulugyminiszterium.hu/kum/en/bal](http://www.kulugyminiszterium.hu/kum/en/bal)

### Accommodation

The University offers **hostel facilities** for international students in one-, two- or three-person units equipped with kitchen and bathroom as well. The hostel accommodation is provided on a first-come, first-served basis. The monthly cost is USD 250–300.

**Apartments for rent** are also available for international students. The University will assist students in obtaining accommodation and signing the contract with the landlords.

### Health Insurance

A general health insurance for Hungary is a prerequisite for registration for each semester at the University of Szeged. Generali-Providencia Insurance Company offers students a health insurance scheme according to which medical care is provided by the University doctors. Conditions are available at registration. This insurance is valid only in Hungary.

## Cost of Living

Cost of living (board and lodging) in Szeged is about USD 500–600 /month.

## Required Textbooks

The list of textbooks can be downloaded from the University's website. Students can purchase the books in their home country or they have the opportunity to buy or order them in Hungary. To assist students' work, the University issues handouts.

## Other Program Offered

### Open Days

Open days are organized on request for a minimum number of 10 participants. For details please contact your local representative.

Individual visitors cannot be offered the opportunity to take part in a guided campus tour.

### "Crash-Course"

A two-week "crash-course" is offered to students who were accepted to the University and who would like to get to know their new environment before school starts. The Crash Course can be the precondition of admission to the first year Medical, Dentistry and Pharmacy Program. The course is a "fresh-up course" in Biology, Chemistry and Physics and it also comprises visits to different destinations in Hungary, a campus-tour, Szeged tour and cultural events.

Time: Second half of August 2008.

*The fee of the course is to be determined on basis of the number of applicants.*

*For more information contact the Foreign Students' Secretariat or see the website.*

## Fees and Costs

Faculty	Year	Tuition fee in USD			Additional fees in USD				
		1st semester fee	2nd semester fee	Total	Application fee <sup>(2)</sup>	Entrance examination fee <sup>(3)</sup>	Registration fee	Annual material fee	Summer practice if spent in Hungary
Medicine	1	6,700	4,000	10,700	150	250	160	-	500
	2	6,700	4,000	10,700	-	-	-	-	-
	3-5	6,700	4,000	10,700	-	-	-	-	1,000
	6			5,350 <sup>(1)</sup>	-	-	-	-	-
Dentistry	1	6,700	4,000	10,700	150	250	160	-	500
	2	6,700	4,000	10,700	-	-	-	-	-
	3-5	6,700	4,000	10,700	-	-	-	1,300	600 <sup>(4)</sup> 800 <sup>(5)</sup>
Pharmacy	1	4,500	3,000	7,500	150	250	160	-	-
	2-5	3,500	3,500	7,000	-	-	-	-	-

(1) The student is entitled to spend half of the sixth year practices at the University hospitals. If the student would like to accomplish more than half of the internships at the University, the fee has to be paid on a proto rata basis.

(2) If you apply only to the University of Szeged. In case of multiple applications, please contact your representative.

(3) If the exam takes place in Hungary. If the examination is taken at other locations, information about the Examination Fee will be given by the official representative. In case of transfer students who have to take an evaluation examination the examination fee is 100 USD per subject.

(4) Fee of Oral Surgery after 3<sup>rd</sup> year

(5) Fee of Basic Treatment of Dental Medicine after 4<sup>th</sup> year

## Deadlines for Payment

### Faculty of Medicine, Dentistry, Pharmacy

#### Year 1

1<sup>st</sup> semester: as indicated in the Letter of Offer and the Letter of Admission

2<sup>nd</sup> semester: till January 31

#### Years 2–5(6)

1<sup>st</sup> semester: till September 1

2<sup>nd</sup> semester: till January 31

## Mode of Payment

Payments have to be made to the following bank account: **Magyar Külkereskedelmi Bank Nyrt. (Hungarian Foreign Trade Bank) H-6720 Szeged, Kölcsey u. 8., Hungary, International account No. (USD): HU14-1030-0002-6610-3177-2700-4013, Swift code: MKKB HUHB**

Payments by certified cheques or cash are also acceptable.

## Refund Policy

### 1. Prior to registration at the University

- Non-refundable: USD 600 (Deposit)

### 2. After registration at the University

Students are not entitled to a refund of the tuition fee after registration.

## Cost of the Preparatory Course

<b>Application fee:</b>	<b>EUR</b>	<b>150</b>
<b>Registration fee:</b>	<b>EUR</b>	<b>100</b>
<b>Tuition fee:</b>	<b>EUR</b>	<b>4,700*</b>
1st semester	EUR	2,600
2nd semester	EUR	2,100

Payments have to be made to the following bank account: **Magyar Külkereskedelmi Bank Nyrt. (Hungarian Foreign Trade Bank) H-6720 Szeged, Kölcsey u. 8., Hungary, International account No. (EUR): HU14-1030-0002-6610-3177-2700-4886, Swift code: MKKB HUHB**

\* *If you are inclined to pay the tuition fee in USD, please, transfer the fee at the current exchange rate to the USD bank account: Magyar Külkereskedelmi Bank Nyrt. (Hungarian Foreign Trade Bank) H-6720 Szeged, Kölcsey u. 8., Hungary, International account No. (USD): HU14-1030-0002-6610-3177-2700-4013, Swift code: MKKB HUHB*

Payments by certified cheques or cash are also acceptable.

## Academic Calendar, Academic Policies, Curricula

### Structure of Studies

Teaching is performed under the credit system in modules. Students have to fulfill all the requirements of a certain module in order to enter the next module. This means that a given number of credits has to be acquired and the **Criteria Subjects** have to be completed (*Physical Training, Summer practices, Hungarian Language*).

Required number of credits to be eligible to sit for the Final (State Board) Examination:

Doctor of Medicine 360 credits

Doctor of Dental Medicine 300 credits

Master of Pharmacy 300 credits

Students are provided a detailed suggested study plan on registration.

### Types of Evaluation

**Term Mark** (gyakorlati jegy) – continuous testing of practical knowledge, 5-grade system

**Qualification (3)** (beszámoló [3]) – evaluation of the subject matter in 3-grade system

**Evaluation (5)** (beszámoló [5]) – evaluation of the subject matter of one semester in 5-grade system

**Examination** (kollokvium) – evaluation of the subject matter of one semester in 5-grade system

**Comprehensive Exam** (szigorlat) – evaluation of the subject of one, two or more semesters in 5-grade system

### Grading System

#### Five-grade system

5 (jeles)	Excellent
4 (jó)	Good
3 (közepes)	Accepted
2 (elégséges)	Passed
1 (elégtelen)	Failed

#### Three-grade system

Kiválóan megfelelt	Highly met requirements
Megfelelt	Met requirements
Nem felelt meg	Not met requirements

### Academic Calendar

**Fall Semester:** beginning of September 2008, through end of January 2009.

**Spring Semester:** beginning of February, 2009, through end of June, 2009.

## Suggested Study Plans\* at the Faculty of Medicine

### First Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Anatomy, Histology and Embryology	2	5	7	Exam	2	5	7	Exam
Cell Biology and Molecular Genetics	2	2	6	Exam	2	2	6	Exam
Medical Chemistry	3	3	6	Exam	3	3	6	Exam
Medical Physics and Statistics	3	2	4	Exam	2	2	4	Exam
First Aid and Resuscitation	–	2	2	Eval(5)	–	–	–	–

**Abbreviations:** Exam – Examination, Eval(5) – Evaluation

**Compulsory Elective Subjects:** Basics in Molecular Biology, Bioinorganic Chemistry, Cytomorphology and Microtechnics, Developmental Genetics, Frontiers of Molecular Biology, Genetical Analysis, Introduction to Analytical Chemistry, Introduction to Chemistry, Introduction to Informatics, Introduction to Medicine, Introduction to Psychology, Modern Instrumental Analysis and Separation Methods, Neurocytology, Steric Structure of Biopolymers

**Elective Subject:** Latin Language

**Criteria Subjects:** Hungarian Language, Nursing Summer Practice, Physical Training

### Second Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Anatomy, Histology and Embryology	2	5	8	Exam	2	5	8	ComEx
Biochemistry	3	2	6	Exam	4	2	6	ComEx
Medical Physiology	6	2	9	Exam	4	2	9	ComEx

**Abbreviations:** Exam – Examination, ComEx – Comprehensive Examination

**Compulsory Elective Subjects:** Biochemical Basics of Preventive Medicine, Cardiac Electrophysiology as a Basic Property of Cardiac Function, Medical Anthropology, Medical Physiology (Seminar), Medical Sociology, Molecular Cytology and Histology, Molecular Developmental Biology

**Elective Subjects:** Animal Experiments in Medicine, Behavioral Approach to Health Promotion, Mathematical and Statistical Modelling in Medicine

**Criteria Subjects:** Hungarian Language, Physical Training

**Third Year**

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Pathology	3	3	6	Exam	2	4	6	ComEx
Pathophysiology	2	2	5	Exam	3	2	5	ComEx
Microbiology and Immunology	3	2	5	Exam	3	2	5	ComEx
Internal Medicine	–	–	–	–	4	2	3	Exam
Clinical Diagnostics (Internal Medicine)	2	2	3	Exam	–	–	–	–
Clinical Diagnostics (Surgery)	–	–	–	–	2	2	3	Exam
Ethics in Medicine	–	–	–	–	1	2	2	Exam
Medical Psychology	–	–	–	–	1	1	2	TMark

**Abbreviations:** **Exam** – Examination, **ComEx** – Comprehensive Examination, **TMark** – Term Mark

**Compulsory Elective Subjects:** Basic Medical Skills, Gerontology, Introduction to ECG Analysis, Microbiological Problems in Medical Practice, Microsurgery, Molecular Medicine, Pathophysiological Aspects of Laboratory Medicine, Surgical Techniques

**Elective Subjects:** Advanced Medical Skills, Animal Experiments in Medicine, Basic Immunopathology, Cerebral Blood flow and Metabolism, Mathematical and Statistical Modeling in Medicine

**Criteria Subjects:** Hungarian Language, Internal Medicine Summer Practice, Physical Training

**Fourth Year**

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Anesthesiology and Oxyology	2	1	1	TMark	2	1	2	Exam
Orthopedics	2	2	3	Exam	–	–	–	–
Pharmacology	3	2	5	Exam	4	2	5	ComEx
Pulmonology	1	2	2	Exam	–	–	–	–
Radiology	1	1	2	Qual(3)	1	1	2	Exam
Surgery	2	2	3	Qual(3)	2	2	3	Exam
Obstetrics and Gynaecology	3	2	4	Exam	3	2	4	Qual(3)
Delivery-Room	total 3 days		–	S	–	–	–	–
Internal Medicine	4	2	5	Exam	5	2	5	Exam
Clinical Oncology	2	–	2	Exam	–	–	–	–
Medical Psychology	1	1	1	TMark	–	–	–	–

**Abbreviations:** **TMark** – Term Mark, **Exam** – Examination, **ComEx** – Comprehensive Examination, **Qual(3)** – Qualification (3), **S** – Signature

**Compulsory Elective Subjects:** Advanced Biostatistics, Basic Biostatistics, Cases in Medical Microbiology and Infectious Diseases, Child and Adolescent Psychiatry and Mentalhygiene, Clinical Immunology, Family Medicine, Health and Social Policy, Hungarian Language, Introduction to Health Economics, Laboratory Diagnostics in Clinical Practice, Medical Informatics, Microsurgery, Non-Conventional Medical Propedeutics, Nuclear Medicine, Pharmacology Cases, Pharmacotherapy, Physiotherapy, Rehabilitation, Rheumatology, Stomatology, Tropical Diseases

**Elective Subjects:** Animal Experiments in Medicine, Clinical Pharmacology, Global Perspectives of Modern Management of Acute Bleeding in Obstetrics, Modern Approach of the Gynecological Laparoscopy, Sexual Disorders-Gynecological Aspects

**Criteria Subjects:** Examination in Behavioural Sciences, Surgery Summer Practice, Physical Training

## Fifth Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Dermatology	3	2	4	Exam	-	-	-	-
Forensic Medicine	1	2	3	Qual(3)	1	2	3	Qual(3)
Internal Medicine – Cardiology, Hematology	2	-	-	Exam	-	-	-	-
Internal Medicine – Infectology Practice	-	2	2	Eval(5)	-	-	-	-
Internal Medicine	-	-	-	-	2	total 16	3	Qual(3)
Neurology	1	2	3	Exam	1	1	2	Qual(3)
Ophthalmology	-	-	-	-	2	2	3	Exam
Oto-Rhino-Laryngology	2	3	4	Exam	-	-	-	-
Pediatrics	3	2	5	Exam	2	2	4	Qual(3)
Psychiatry	1	1	2	Qual(3)	2	1	3	Exam
Public Health	2	2	3	Exam	2	2	3	TMark
Surgery	1	1	2	Qual(3)	-	-	-	-
Traumatology	-	-	-	-	2	2	3	Exam
Urology	-	-	-	-	1	2	2	Exam

**Abbreviations:** Exam – Examination, Qual(3) – Qualification (3), Eval(5) – Evaluation (5), TMark – Term Mark

**Compulsory Elective Subjects:** Advanced Biostatistics, Basic Biostatistics, Cases in Medical Microbiology and Infectious Diseases, Child and Adolescent Psychiatry and Mentalhygiene, Clinical Genetics, Clinical Immunology, Family Medicine, Health and Social Policy, Hungarian Language, Introduction to Health Economics, Laboratory Diagnostics in Clinical Practice, Medical Informatics, Microsurgery, Neurosurgery, Non-Conventional Medical Propedeutics, Nuclear Medicine, Pharmacology Cases, Pharmacotherapy, Physiotherapy, Rehabilitation, Rheumatology, Risk Analysis, Management and Communication, Stomatology, Tropical Diseases

**Elective Subjects:** Animal Experiments in Medicine, Clinical Pharmacology, Global Perspectives of Modern Management of Acute Bleeding in Obstetrics, Modern Approach of the Gynecological Laparoscopy, Sexual Disorders-Gynecological Aspects

## Sixth Year

Compulsory Subjects	Practice	Exam form
Internal Medicine <i>including</i> General Practice	10 weeks 1 week	Comprehensive Examination
Surgery	7 weeks	Comprehensive Examination
Neurology	4 weeks	Comprehensive Examination
Psychiatry	4 weeks	Comprehensive Examination
Obstetrics and Gynaecology	4 weeks	Comprehensive Examination
Pediatrics <i>including</i> District Pediatric Consultation	8 weeks 1 week	Comprehensive Examination
Thesis	-	Defence

## Suggested Study Plans\* at the Faculty of Dentistry

### First Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Anatomy, Histology and Embryology	2	5	6	Exam	2	5	6	Exam
Cell Biology and Molecular Genetics	2	2	3	Exam	2	2	4	Exam
Medical Physics and Statistics	3	2	3	Exam	2	2	4	Exam
Medical Chemistry	3	3	3	Exam	3	3	4	Exam
Odontology and Gnatology	2	1	5	Exam	1	3	5	ComEx
First Aid and Resuscitation	–	2	1	TMark	–	–	–	–

**Abbreviations:** **Exam** – Examination, **ComEx** – Comprehensive Examination, **TMark** – Term Mark

**Compulsory Elective Subjects:** Introduction to Medicine, Basics of Molecular Biology, Frontiers in Molecular Biology, Developmental Genetics, Genetical Analysis, Cytomorphology and Microtechnics, Introduction to Analytical Chemistry, Bioinorganic Chemistry, Introduction to Informatics, Dental Instruments, Communication in Dentistry, Neurocytology, Modern Instrumental Analysis and Separation Methods, Steric Structure of Biopolymers

**Elective Subject:** Latin Language

**Criteria Subjects:** Hungarian Language, Nursing Summer Practice, Physical Training

### Second Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Anatomy, Histology and Embryology	2	5	7	Exam	2	5	7	ComEx
Biochemistry	3	2	5	Exam	4	2	6	Eval(5)
Medical Physiology	6	2	7	Exam	4	2	8	ComEx
Biochemistry-Chemistry	–	–	–	–	–	–	–	ComEx

**Abbreviations:** **Exam** – Examination, **ComEx** – Comprehensive Examination, **Eval(5)** – Evaluation (5)

**Compulsory Elective Subjects:** Medical Physiology (Seminar), Medical Sociology, Dental Materials and Technology, Molecular Cytology and Histology, Dental Anthropology, Molecular Developmental Biology, Medical Anthropology, Hungarian Language

**Elective Subject:** Mathematical and Statistical Modelling in Medicine

**Criteria Subject:** Physical Training

\* subject to change

**Third Year**

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Pathophysiology	2	2	3	Exam	3	2	3	Exam
Pathology and Oral Pathology	3	2	4	Exam	2	2	3	Exam
Microbiology and Immunology	3	1	4	Exam	–	–	–	–
Pharmacology	2	1	2	Eval(5)	2	1	2	Exam
Oral Biology	1	1	3	Exam	–	–	–	–
Preclinical Course of Operative Dentistry	1	4	3	Eval(5)	1	4	3	Eval(5)
Preclinical Course of Prosthodontics	1	2	3	Eval(5)	1	4	3	Eval(5)
Preclinical Course of Oral Surgery	–	–	–	–	2	3	5	Exam
Preventive Dentistry	–	–	–	–	1	1	2	Exam
General and Dental Radiology	–	–	–	–	2	2	4	Exam

**Abbreviations:** Exam – Examination, Eval(5) – Evaluation (5)

**Compulsory Elective Subjects:** Surgical Techniques, Antimicrobial Chemotherapy, Preclinical Course of ECG Analysis, Microsurgery, Dental Paleopathology, Hungarian Language

**Elective Subjects:** Basic Medical Skills, Advanced Medical Skills, Basic Immunopathology

**Criteria Subjects:** Dentist-Patient Communication, Preclinical Course of Prosthodontics and Restorative Dentistry Examination, Oral Surgery Summer Practice

**Fourth Year**

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Internal Medicine	3	2	4	Exam	2	1	3	Exam
Operative Dentistry	1	6	3	Eval(5)	1	5	4	Exam
Endodontics	1	–	2	Exam	–	–	–	–
Prosthodontics	1	7	4	Eval(5)	1	7	5	Exam
Oral Surgery	–	3	2	Exam	–	3	2	Exam
Oral Medicine	2	1	4	Exam	1	2	3	Eval(5)
Infection Control in Dentistry	1	1	3	Exam	–	–	–	–
Dental Diagnostics and Treatment Planning	–	–	–	–	1	1	2	Eval(5)
Dental Biometry and Evaluation of Research Results	–	–	–	–	1	1	2	Exam
Pediatric Dentistry	–	–	–	–	1	2	3	Exam
Periodontology	–	–	–	–	1	2	4	Exam

**Abbreviations:** Exam – Examination, Eval(5) – Evaluation (5)

**Compulsory Elective Subjects:** Advanced Imaging Techniques in Dentistry, Anaesthesiology and Intensive Therapy, Esthetic Dentistry, Dermatology, Neurology, Nuclear Medicine, Hungarian Language, Surgery, Obstetrics and Gynaecology, Dental Treatment of Elderly People and Patients with Special Needs, Communication in Dentistry

**Elective Subject:** Echocardiography, Modern Diagnostic and Therapeutic Approach of Hematology, Global Perspectives of Modern Management of Acute Bleeding in Obstetrics, Actual Problems in Obstetric Immunology, Sexual Disorders – Gynaecological Aspects, Modern Approach of the Gynaecological Laparoscopy, Arythmology, The Investigation of Male and Female Infertility and the Importance of Andrological Aspects, The Use of Gynaecological Endoscopy with Respect on Average and Special Applications, Gyneacological Endocrinology, Infertility, Communicative Experiences in Oncology

**Criteria Subjects:** Dentist-Patient Communication, Preclinical Course of Oral Surgery and Oral Medicine, Dental Summer Practice

## Fifth Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
<b>In the General Clinical Modul</b>								
Forensic Medicine	1	–	2	Exam	–	–	–	–
Medical Psychology	1	1	1	Exam	–	–	–	–
Medical Ethics	1	1	1	Exam	–	–	–	–
Public Health	1	–	1	Eval(5)	1	1	2	Exam
Oto-Rhino-Laryngology	2	1	3	Exam	–	–	–	–
<b>In the Dental Clinical Modul</b>								
Prosthodontics	–	6	2	TMark	–	6	3	TMark
Operative Dentistry	–	4	2	TMark	–	6	3	TMark
Oral Surgery	2	4	6	Eval(5)	–	6	4	TMark
Pediatric Dentistry	1	4	3	Eval(5)	–	3	2	TMark
Orthodontics	1	2	3	Exam	1	2	4	Eval(5)
Periodontology	1	2	3	Eval(5)	1	2	4	Eval(5)
Dental Practice Management	2	–	3	Exam	–	–	–	–
Dental Implantology	–	–	–	–	2	–	3	Eval(5)

**Abbreviations:** Exam – Examination, Eval(5) – Evaluation (5), TMark – Term Mark

**Compulsory Elective Subjects in the General Clinical Module:** Ophthalmology, Pediatrics, Psychiatry, Technical Foreign Language, Medical Informatics, Child and Adolescent Psychiatry, Micro-Surgery

**Compulsory Elective Subjects in the Dental Clinical Module:** Clinical reference lectures, Esthetic Dentistry, Pediatric Dental Traumatology, Oral Oncology, Oral Surgery Aspects of Dental Implantology

**Criteria Subjects:** Prosthodontics and Implantology, Operative Dentistry and Endodontics, Pediatric Dentistry and Orthodontics, Oral Surgery, Paradontology

## Suggested Study Plans\* at the Faculty of Pharmacy

### First Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Physics-Biophysics	2	–	2	Exam	2	–	3	Exam
Physics-Biophysics	–	–	–	–	–	3	2	TMark
History of Pharmacy	2	–	2	Exam	–	–	–	–
Mathematics	2	–	3	Exam	–	–	–	–
Mathematics	–	2	2	TMark	–	–	–	–
Informatics	–	2	2	TMark	–	–	–	–
General Chemistry	2	–	3	Exam	–	–	–	–
General Chemistry	–	4	3	TMark	–	–	–	–
Pharmaceutical Biology	2	–	3	Exam	–	–	–	–
Pharmaceutical Biology	–	2	3	S	–	–	–	–
Anatomy	2	–	2	Exam	2	–	2	Exam
English Language	–	2	0	TMark	–	2	0	TMark
Latin Language	–	2	2	TMark	–	–	–	–
Hungarian Language	–	4	2	TMark	–	4	2	TMark
Inorganic Chemistry	–	–	–	–	3	–	4	Exam
Qualitative Chemical Analysis	–	–	–	–	2	–	3	Exam
Qualitative Chemical Analysis	–	–	–	–	–	5	4	TMark
Quantitative Chemical Analysis	–	–	–	–	2	–	0	S
Quantitative Chemical Analysis	–	–	–	–	–	4	4	TMark
Biostatistics	–	–	–	–	1	–	2	Exam
Biostatistics	–	–	–	–	–	1	0	S
First Aid and Resuscitation	–	–	–	–	1	–	0	S
First Aid and Resuscitation	–	–	–	–	–	1	2	TMark

**Abbreviations:** Exam – Examination, TMark – Term Mark, S – Signature

**Elective Subjects:** General Laws in Sciences, Short History of Hungary, Radiochemistry

\* subject to change

### Second Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Quantitative Chemical Analysis	3	–	4	ComEx	–	–	–	–
Quantitative Chemical Analysis	–	4	3	TMark	–	–	–	–
Organic Chemistry	4	–	4	Exam	3	–	4	ComEx
Organic Chemistry	–	6	6	TMark	–	–	–	–
Pharmaceutical Botany	1	–	2	Exam	2	–	3	Exam
Pharmaceutical Botany	–	–	–	–	–	2	2	TMark
Physiology	4	–	4	Exam	4	–	6	ComEx
Physiology	–	2	2	TMark	–	2	0	S
Physical Chemistry	2	–	2	Exam	–	5	4	TMark
Colloid Chemistry	2	–	3	Exam	–	–	–	–
Colloid Chemistry	–	2	0	S	–	–	–	–
Hungarian Language	–	4	0	S	–	4	0	S
Biochemistry	–	–	–	–	4	–	4	Exam
Pharmaceutical Propedeutics	–	–	–	–	2	–	3	Exam

**Abbreviations:** **ComEx** – Comprehensive Examination, **TMark** – Term Mark, **Exam** – Examination, **S** – Signature

**Elective Subjects:** Practical Optical Spectroscopy, Radiochemistry, Basic Communication

### Third Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Pharmacognosy	3	–	3	Exam	2	–	3	ComEx
Pharmacognosy	–	4	3	TMark	–	4	3	TMark
Pharmaceutical Chemistry	4	–	5	Exam	4	–	5	ComEx
Pharmaceutical Chemistry	–	6	5	TMark	–	6	5	TMark
Pharmaceutical Technology	2	–	0	S	2	–	3	Exam
Pharmaceutical Technology, Galenic Prep. and Their Manufacture	–	–	–	–	–	3	3	TMark
Pharmaceutical Technology, Prescription Pharmacy	–	–	–	–	–	3	3	TMark
Microbiology	3	–	4	Exam	–	–	–	–
Microbiology	–	2	0	S	–	–	–	–
Immunology	2	–	2	Exam	–	–	–	–
Pathophysiology	2	–	3	Exam	2	–	4	Exam
Pathophysiology	–	2	0	S	–	2	0	S
Hungarian Language	–	3	0	TMark	–	3	0	TMark
Biopharmacy	–	–	–	–	2	–	2	Exam
Biopharmacy	–	–	–	–	–	3	2	TMark

**Abbreviations:** **Exam** – Examination, **ComEx** – Comprehensive Examination, **TMark** – Term Mark, **S** – Signature

**Elective Subjects:** Communication in Pharmacy Practice, Computer Literature

## Fourth Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Pharmaceutical Analysis	2	–	3	Exam	–	–	–	–
Pharmaceutical Analysis	–	5	4	TMark	–	–	–	–
Pharmaceutical Technology	2	–	0	S	2	–	5	ComEx
Pharmaceutical Technology, Prescription Pharmacy	–	5	5	TMark	–	3	2	TMark
Pharmaceutical Technology, Sterile and Aseptic Drug Formulations	–	3	3	TMark	–	–	–	–
Pharmaceutical Technology, Tablet and Tablet Coating	–	–	–	–	–	3	2	TMark
Pharmaceutical Technology, Investigation of Dosage Forms	–	–	–	–	–	4	3	TMark
Pharmacodynamics	3	–	3	Exam	–	–	–	–
Pharmacodynamics	–	3	2	TMark	–	–	–	–
Pharmacodynamics-Toxicology	–	–	–	–	3	–	3	ESE
Pharmacodynamics-Toxicology	–	–	–	–	–	3	2	TMark
Public Health	2	–	1	–	2	–	3	Exam
Ethics in Pharmacy	2	–	2	Exam	–	–	–	–
Introduction to Law	2	–	2	Exam	–	–	–	–
Introduction to Economy	2	–	2	Exam	–	–	–	–
Hungarian Language	–	2	0	TMark	–	2	0	ComEx
Drug Regulatory Affairs	–	–	–	–	3	–	6	ComEx
Clinical Laboratory Practice	–	–	–	–	2	–	2	Exam
Clinical Laboratory Practice	–	–	–	–	–	2	0	S
Pharmacy Administration	–	–	–	–	–	1	2	TMark

**Abbreviations:** Exam – Examination, TMark – Term Mark, S – Signature, ComEx – Comprehensive Examination

**Elective Subjects:** Illicite Drug Use, Communication in Pharmacy Practice, Basic Clinical Pharmacology

## Fifth Year

Compulsory Subjects	1 <sup>st</sup> semester				2 <sup>nd</sup> semester			
	Weekly hours		Credits	Exam form	Weekly hours		Credits	Exam form
	Theory	Pract.			Theory	Pract.		
Fundamentals of Clinical Therapy	3	–	4	Exam	–	–	–	–
Clinical Pharmacy	2	–	3	Exam	–	–	–	–
Pharmacodynamics	3	–	5	ComEx	–	–	–	–
Pharmacodynamics	–	3	2	TMark	–	–	–	–
Pharmaceutical Care	–	3	2	TMark	–	–	–	–
Natural Treatments	2	–	2	Exam	–	–	–	–
Pharmacy Practice	–	–	–	–	–	16×40	18	TMark
Thesis	–	–	–	–	–	–	10	Defence

**Abbreviations:** Exam – Examination, ComEx – Comprehensive Examination, TMark – Term Mark

**Compulsory Elective Subjects:** Ward Pharmacy, Pharmaceutical Psychology, Tropical Medicine, Veterinary Pharmacy, Quality Assurance, Human Genetics

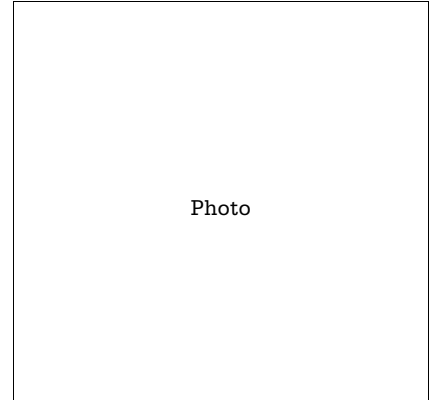
**Elective Subjects:** Computerized Dosage Form Planning, Everyday Dermatology

# UNIVERSITY OF SZEGED, HUNGARY

## APPLICATION FORM FOR ENGLISH LANGUAGE PROGRAMS

**To Begin Studies in the Academic Year 2008/2009**

1. Type or block print all information.
2. These items should be attached to the application:
  - a, Filled and signed **Application Form**.
  - b, **School Leaving Certificate** from an accredited high school/senior secondary school and **certificates listing all the subjects you have taken and the grades you have achieved**. Transfer students also have to submit their **official University transcripts** and **course descriptions**. These documents should be sent to us directly by your school.
  - c, **Curriculum Vitae** (a sample can be downloaded from the Secretariat's website).
  - d, **One recent photo** (passport size) – to be stuck onto the Application Form.
  - e, **Medical Certificate** – the form can be downloaded from the Secretariat's website.
  - f, **USD 135 Application Fee** (non-refundable) is payable to your local representative. If there is no such, then directly to the University.
  - g, **Photocopy of your valid passport**. (The validity of which has to exceed that of the requested visa by at least 3 months).
3. Sign the application on page 2.
4. Submit the application to your local representative or the University of Szeged.



**Deadline for application: July 31, 2007**

**Preferred location of the entrance examination:**

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- I apply for**
- Doctor of Medicine**     **Master of Pharmacy**     **Doctor of Dental Medicine**  
 **Pre-Medical Course**     **Anatomy Summer School**  
 **Transfer to the Faculty of Medicine**  
 **Transfer to the Faculty of Medicine**  
 **Transfer to the Faculty of Pharmacy**
- Please, tick (✓) the appropriate box.

\_\_\_\_\_ Family Name                      \_\_\_\_\_ First Name                      \_\_\_\_\_ Middle Name

\_\_\_\_\_ Birthplace (City / Country)                      \_\_\_\_\_ Birthdate (Day / Month / Year)                      \_\_\_\_\_ Age                      \_\_\_\_\_ Sex

\_\_\_\_\_ Citizenship\*                      \_\_\_\_\_ Passport Code and No.

\_\_\_\_\_ Permanent Address (No. / Street / City/Town / Postal Code / Country)

\_\_\_\_\_ Phone/Fax at Permanent Address    \_\_\_\_\_ E-mail

**Special consideration will be given to those applicants who have been recommended by former graduates of the University.**

Where and how did you **first** learn about this program (please, specify): \_\_\_\_\_

- Where else did you get further information from:
- www.szote.u-szeged.hu**     local representative     **www.studyhungary.hu**     a Szeged student  
 educational fair/seminar     advertisement     from my highschool     friend/relative     other

\* If you have a dual citizenship please underline that country's, whose passport you will use when entering Hungary.



**ACADEMIC RECORD**

1. List all secondary schools attended

Name of School	Location	Dates Attended		Diploma/ Certificate
		From	To	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

2. Date and place of high school /senior secondary school exam: \_\_\_\_\_

Certificate issued by: \_\_\_\_\_ No: \_\_\_\_\_

3. Activity following high school graduation, if any

University studies (please attach transcripts and detailed course descriptions)

University: \_\_\_\_\_ Major(s): \_\_\_\_\_

Military Service

Other \_\_\_\_\_

4. What is your mother tongue? \_\_\_\_\_

Other languages? Speak: \_\_\_\_\_ Read: \_\_\_\_\_ Write: \_\_\_\_\_

Hungarian? Speak: \_\_\_\_\_ Read: \_\_\_\_\_ Write: \_\_\_\_\_

**PERSONAL INFORMATION**

5. Your Marital Status \_\_\_\_\_

6. Father's name \_\_\_\_\_ Occupation \_\_\_\_\_

Address \_\_\_\_\_

Mother's **maiden** name \_\_\_\_\_ Occupation \_\_\_\_\_

Address \_\_\_\_\_

7. Person to notify in emergency:

\_\_\_\_\_  
Name Relationship Daytime Phone

\_\_\_\_\_  
Address (No. / Street / City / Postal Code / Country) Daytime Fax

I hereby certify that all information provided by me in this application is accurate and complete. I declare that I am fully aware of the contents of the official English-language brochure of the University of Szeged and fully accept the given conditions.

(Signed) \_\_\_\_\_ Date: \_\_\_\_\_



## **OTHER INTERNATIONAL DEGREE PROGRAMS AT HUNGARIAN UNIVERSITIES**

### **Semmelweis University, Budapest**

#### **Faculty of Physical Education and Sport Sciences**

Physical Education and/or Coaching, 3+2 years – in English

#### **Faculty of Health Sciences**

Physiotherapy: 4 years, in English

Nursing: 4 years, in English

Optometry: 3 years, in English

Midwifery: 4 years, in German



### **Szent István University, Budapest**

#### **Faculty of Veterinary Science**

Veterinary Medicine, 5 years and a half – in English and German



### **Loránd Eötvös University of Liberal Arts and Sciences, Budapest**

#### **Faculty of Education and Psychology**

BA and MA Programs, 3+2 years – in English



### **Budapest University of Technology and Economics**

Architecture, Chemical, Civil, Mechanical and Transportation Engineering,  
Electrical Engineering and Informatics, Economic and Social Sciences, Natural Sciences

4+2 years – in English



### **Two-Semester Preparatory Courses**

#### **College International Budapest**

offers pre-application courses based on the admission requirements for applicants to  
medical, dental, veterinary, pharmacy, physiotherapy, optometry,  
midwifery and psychology programs  
in English and/or German



**More information at [www.studyhungary.hu](http://www.studyhungary.hu)**

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## **AMERICAN UNDERGRADUATE AND STUDY ABROAD PROGRAMMES IN BUDAPEST**

### **McDaniel College • Budapest → Westminster, Maryland, USA**

American B.A. Programmes in

- Art History – Studio Art • Economics • Business Administration • Communication •  
• Political Science • International Studies • History •
- Study Abroad Programmes • Pre-Application Preparatory Courses •

<http://www.mcdaniel.hu>




### **Budapest Semesters in Mathematics**

- Undergraduate Study Abroad Programme for North-American students •

<http://www.stolaf.edu/depts/math/budapest>

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*Think broadly, don't be afraid of making mistakes, don't miss small details, keep your eyes open and be involved in everything except your air.*

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[www.szote.u-szeged.hu/angoltit](http://www.szote.u-szeged.hu/angoltit)