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# SEMMELWEIS UNIVERSITY

## BUDAPEST, HUNGARY

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<b>Chancellor</b>	Dr. Károly SZÁSZ
<b>Vice Rectors</b>	
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<b>Educational Affairs</b>	Prof. Dr. Péter HERMANN, D.M.D., M.Sc., Ph.D.
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<b>Faculty of Dentistry</b>	Dr. Gábor GERBER, D.M.D., Ph.D.
<b>Faculty of Pharmacy</b>	Prof. Dr. Romána ZELKÓ, dr.pharm., Ph.D.
<b>Director General for Finance, Investment and Operation</b>	Dr. Zsuzsanna BORBÉLY BALOGH

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<b>Student Service Center</b> for interested students	YES – Your Education Service Co. <i>Address:</i> H-1241 Budapest, P.O. Box 179. <i>E-mail:</i> <a href="mailto:info@sth.hu">info@sth.hu</a> <i>Home page:</i> <a href="http://sth.hu">http://sth.hu</a> <i>Phone:</i> to be published later
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### Local Representative

# General Information

## Brief History of Medical Education at Semmelweis University

Cardinal Péter Pázmány founded the predecessor of the present day University in 1635 at Nagyszombat (today Trnava in Slovakia), his bishop seat. On November 7, 1769 Queen Maria Theresa of Austria–Hungary attached a Faculty of Medicine to the former Faculties (Theology and Jura). The new Faculty was moved to Buda in 1777. The "Diploma Inaugurale" which stated the rights of the University and allocated the necessary financial means was signed in 1780. After a few years, the University moved to the other side of the Danube, to Pest. (Buda and Pest were independent cities at that time). In 1848, at the time of the National War of Independence, the former University of Nagyszombat became a National University.

The establishment of the present clinical departments and theoretical institutes started at the end of the 19th century at their present location in Budapest. These buildings are still in use after reconstruction and modernization. New clinics and institutes were built during the 20th century.

In 1951, the Faculty of Medicine was reorganized into an independent medical school, and the institutional name was changed to Budapest University of Medicine. In 1955, Faculties of Dentistry and Pharmacy were incorporated into the University. In 1969, the name of the University was changed to Semmelweis University of Medicine. The new name honors Ignác Semmelweis (see cover photo) who discovered the cause of puerperal fever and was a professor and chairman on the Faculty of Medicine at the present 1st Department of Obstetrics and Gynecology.

Today, Semmelweis University incorporates the Faculties of Medicine, Dentistry, Pharmacy, Faculty of Health Sciences and the Faculty of Health and Public Services. Semmelweis University was the first Hungarian higher educational institution, which, in addition to educate at the above faculties in Hungarian, started to offer an international program at the Faculty of Medicine in German in 1983, while its international program in English started in 1987, at the Faculties of Medicine, Dentistry and Pharmacy.

## Facts and Figures

Semmelweis University has a more than 240-year old tradition of academic excellence and commitment to the education of physicians. Among Semmelweis alumni are Nobel-laureates, world renowned researchers and clinicians. Current enrolment at the Faculty of Medicine is 2400 students, at the Faculty of Dentistry 500, and at the Faculty of Pharmacy 690. A special German-language Doctor of Medicine/Dentistry program has 1,100 German students enrolled, while the programs in English have altogether 1,670 students registered at three faculties. The University Hospitals have 2160 beds and admit about 160,000 patients annually. The outpatient departments care for approximately 2.38 million patients each year. Research programs at the Preclinical and Clinical Departments are sponsored by the University, the Ministry of Education, the Hungarian Academy of Sciences, by many national and international grants.

## Accreditation

As a **state university** Semmelweis University functions under the auspices of the Ministry of Education and the Ministry of Health. The University is listed in the WHO's directory of Medical Schools. The faculties of the University were reaccredited by the Hungarian Accreditation Board in 2014. The decision of the National Committee on Foreign Medical Education and Accreditation of the USA declares: The standards and processes used by the Hungarian Accreditation Council to accredit medical schools in Hungary are comparable to those used to accredit medical schools in the United States.

## International Recognition of the Degrees

**European Union:** In those professions where the conditions of education in Hungary are identical with those in other EU member states, and these have already been recognized (medical and dental doctors, pharmacists etc.), the member states of the European Union are obliged to accept the diplomas issued in Hungary, independent of the language of tuition.

**USA:** Semmelweis medical graduates (as foreign graduates) have the right to pass the **United States Medical Licensing Examinations** (USMLE), after which they are eligible for residency.

Semmelweis dental graduates are required to fulfill US licensure requirements. For details, please visit the following websites:

**Medical licensure:** <http://www.usmle.org/index.html>

**Dental licensure:** [http://www.ada.org/sections/professionalResources/pdfs/licensure\\_stepbystep\\_intl.pdf](http://www.ada.org/sections/professionalResources/pdfs/licensure_stepbystep_intl.pdf) and <http://www.ada.org/1628.aspx>

**Important:** Semmelweis University organizes USMLE training program for its students!

**Canada:** Semmelweis graduates are eligible to pass the **Medical Council of Canada Evaluation Examination** (MCCEE) and the Medical Council of Canada Qualifying Examination (MCCQE) before applying for residencies.

**Israel:** Semmelweis graduates have to complete a **one-year practice and pass a test** before they are eligible for obtaining the permit to practice medicine.

**India: Doctor of Dentistry degree** of Semmelweis University is **equivalent to B.D.S. degree** in India.

### **The Programs in English Medicine, Dentistry and Pharmacy**

The Programs in English at Semmelweis University were instituted for students with a good knowledge of English. The programs begin in early September each year. The curriculum in Medicine consists of six years of studies, in Dentistry and Pharmacy five years. At the conclusion of the programs the degrees granted in English and German are identical to those granted at the Hungarian program: Doctor of Medicine (dr. med.), Doctor of Dentistry (dr. med. dent.) and Doctor of Pharmacy (dr. pharm.).

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

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

# Application and Admission Requirements

## Application Criteria

Applicants are required to be at least 18 in the calendar year of application and preferably under the age of 30.

The Faculties of Medicine, Dentistry and Pharmacy at Semmelweis University seek students who completed high school/senior secondary school and who possess good command of English, and a strong motivation to study and practice medicine, dentistry or pharmacy.

## Application Procedure

Applications should be sent until May 31 to the officially appointed Semmelweis representative in your country (*see the list of representatives*), or if there is no representative, directly to Semmelweis University. Late applications are accepted upon vacancies.

The following documents should be attached (in original or as attested copies, in English or with an authorized English translation).

1. **Application Form** (signed)
2. **Matriculation / School Leaving Certificate** from an accredited high school / senior secondary school. Registration number of documents should be indicated. If you are in your final year and have not yet received it, you can still apply and take the entrance examination.
3. **Transcripts of high school / senior secondary school courses** verifying successful completion of General Biology or Zoology, General or Inorganic Chemistry, Organic Chemistry and Physics. Unofficial transcripts may be submitted, but acceptance into the program will be on condition of receipt of all official transcripts or attested copies.
4. **Letter of Recommendation.** Letter in English from a secondary school principal or science teacher is preferred. Particularly valuable a letter of recommendation from a person who studied at or graduated from our school.
5. **Curriculum Vitae** (Resume) in English.
6. **Motivation letter**
7. **Medical Certificate.** Certification that the applicant is physically and mentally able to complete higher educational studies, does not suffer from chronic infectious disease, dyslexia and a negative **HIV test** should be attached, as well as proof of **Hepatitis B** vaccination.
8. **Signed Photographs.** 2 passport size photos (Sign on the back!)
9. **Copy of passport or ID card** with your personal data.
10. **Application fee** of USD 200 (non-refundable) is payable to the local representative. If there is no local representative please transfer the fee according to the payment details on page 6 and please attach a proof from the bank about the transfer of the fee.
11. **Examination fee**
  - If the **exam is taken in Budapest** it is USD 250 (non-refundable) please attach a proof from the bank about the transfer of the fee.
  - In case the **exam is taken outside of Hungary** the exam fee is USD 250 + additional fee covering the local costs. USD 250 + additional fee – non-refundable – should be paid to the officially appointed Semmelweis University Representative.

*Note: We keep the documents of applicants who did not get acceptance and of those who got acceptance but did not register for up to 10 months.*

## Entrance Examinations

### Date of Examinations

Entrance examinations are held in Budapest and worldwide (please see [www.sth.hu](http://www.sth.hu) and [english.secretariat@semmelweis-univ.hu](mailto:english.secretariat@semmelweis-univ.hu)).

Qualified applicants will be invited to take the entrance examination organized by the university or by the local representative.

### Contents of the Entrance Exams

The exams consist of multiple choice tests in Biology, Chemistry and English, followed by an oral examination, which will focus on the applicant's knowledge of Biology, Chemistry and English, and will be supplemented by a personal interview that aims to examine the applicant's professional attitude, too.

at the Faculty of General Medicine, Dentistry and Pharmacy – 2017/2018 Academic Year:

1. **Evolution:** chemical and biological aspects
2. **Chemical background in Biology:** Structure of atoms; Molecules – chemical bonds; Solutions; Chemical reactions; Inorganic constituents; Hydrocarbons; Organic compounds containing Oxygen or Sulphur; Organic compounds containing Nitrogen; Carbohydrates; Amino acids and Proteins; Lipids; Vitamins; Nucleic acids.
3. **The cell and its organization** (morphology and function): Prokaryotes (viruses, bacteria) and Eukaryotes (focus on cilia and flagella, cell wall, cell membrane, endoplasmic reticulum, Golgi, lysosome, mitochondrion, plast, ribosome, centriole, nucleus, nucleolus).
4. **From cells to tissues** of different structure and function (plant and animal tissues as well).
5. **Cell division:** mitosis and meiosis.
6. **Anabolic and catabolic pathways** regarding nucleic acids, proteins, carbohydrates, lipids (photosynthesis, bioenergetics included).
7. **The physiology of living organisms:** respiration, ingestion and digestion, excretion, circulation, endocrine and neural regulation, immunobiology, locomotion.
8. **Reproduction and development of animals.**
9. **Genetics:** Mendelian inheritance, human genetics.
10. **Basic ethology.**

*Note: In all of these questions, knowledge of English terminology is required!*

#### Evaluation

The evaluation of the Entrance Examinations will be performed by the University Board.

### Student visa

The accepted students should apply for a D-5 student visa. The requirements will be listed in the Acceptance Letter issued by the university.

The list of countries from where a D-5 visa is required and the visa application form can be downloaded from <http://konzuliszolgalat.kormany.hu/visa-waiver-agreements>

Students coming from EU & EEA countries do not need a student visa, but have to apply for a residence permit within 90 days after their arrival to Hungary.

# Fees and Costs

## Tuition Fee and Additional Charges

Year 1–6  
**Medicine** USD 9,100 / semester

Year 1–5  
**Dentistry** USD 9,100 / semester  
**Pharmacy** USD 6,000 / semester

*The first year tuition fee (+ the registration fee) should be paid in two installments (unless the Hungarian Visa regulations have different conditions):*

*–for the 1st semester (details in the letter of acceptance)*

*Medicine* USD 9,100 (+ USD 220 registration fee)

*Dentistry* USD 9,100 (+ USD 220 registration fee)

*Pharmacy* USD 6,000 (+ USD 220 registration fee)

*–for the 2nd semester (before February 1)*

*Medicine* USD 9,100

*Dentistry* USD 9,100

*Pharmacy* USD 6,000

*In consecutive years the tuition fee/semester – as listed above – should be paid:*

*–Before September 1 (for the 1st semester)*

*–Before February 1 (for the 2nd semester)*

*Sixth year medical students spending their internship year (except the compulsory weeks to be completed at Semmelweis University) outside Hungary may apply for a reduction.*

**Application Fee:** USD 200 <sup>1</sup>

**Entrance Examination Fee:** USD 250 <sup>2</sup>  
(if examination is taken in Hungary)

**Registration Fee:** USD 220 <sup>3</sup>

<sup>1</sup> Payable on application. If the application takes place at the official university Representative, the Representative will inform you about the payment details.

<sup>2</sup> Payable on application. If the examination takes place outside Hungary the official university representative will inform you about the sum of the examination fee (USD 250 + additional fee).

<sup>3</sup> Payable together with the tuition fee.

### Dentistry Students Additional Material Fee

Years 3, 4 & 5: USD 3,600 <sup>4</sup>

<sup>4</sup>The annual additional material fee should be paid

*–for 1st semester:* USD 1,800

*–for 2nd semester:* USD 1,800

*–this fee is subject to change.*

**Note:** Before registration first year students must obtain a certificate of the full payment of the tuition fee.

## Payment Details

Payments can be made by bank transfer in **USD** to the bank account of Semmelweis University:

Account name (“account with institution”): **Semmelweis University**

Account (IBAN) Number: **HU67 1000 4012 1000 8016 0051 4534**

Bank name: **Magyar Államkincstár (Hungarian State Treasury)**

Bank address: **4. Hold Street, H-1054 Budapest, Hungary**

Swift/BIC code: **HUSTHUHB** (correspondent Swift/BIC code: **MANEHUHB**)

**Note:** The money transfer sheet should include the **name of the student** as it is written in the passport and the remark invoice ID number.

Personal checks and money orders are not accepted.

Please note that the above mentioned net amounts have to arrive to the account – the bank commission charges have to be paid by the student.

**Important:** *If the tuition fee is not credited to our bank account by the above deadlines, students have to pay a default charge to the university and may be suspended/dismissed.*

## **Refund Policy**

### **1.Prior to registration at the university**

Refundable: 100% of payment except the 1st year students' **deposit USD 2,000**, which is **non-refundable**.

### **2.After registration at the university**

Withdrawal of studies: Students, compelled to withdraw for academic/disciplinary reasons or have been accepted/transferred by another institute of higher education are not entitled to a refund of the tuition fee.

Students are entitled to a refund on a pro rata basis if studies are interrupted due to a sound reason (eg. the death of parents/guardians or due to a requirement to fulfill a military service obligation). The refund is applicable from the first day of the month following report of the above mentioned conditions with accompanying official certificates.

### **3.Suspension of studies:**

a.Student's legal relationship is suspended after registration within a month following the beginning of the semester. Tuition is non-refundable. It can be transferred to the next active semester.

b.Student's legal relationship is suspended after registration after more than a month following the beginning of the semester. Tuition fee is non-refundable. It cannot be transferred to the next active semester and the semester must be considered as active.

*No other claims are acceptable.*

## **Health Insurance**

A full coverage basic health insurance for Hungary is a **prerequisite for registration** at the university.

As a part of the tuition fee a special insurance for students is offered which includes an English-language call center, GP-service and treatment at the Polyclinics and Clinics of Semmelweis University. As long as you pay your tuition fee each semester and you are a registered active student, this insurance is automatically renewed until the end of your studies.

You will find details in the letter of acceptance.

## **Housing**

The Student Service Center is offering help in finding the most suitable type of accommodation. Without an official address in Hungary the Residence Permit cannot be obtained.

The rent of an apartment is the responsibility of the student and rental prices vary according to the personal needs. For your information: the average cost for one student is from EUR 300/month.



# **Student Life**

## **International Student Association of Semmelweis – ISAS (<http://www.isas.hu>)**

- ! ISAS is the student organization for the international students of Semmelweis.
- ! We are working to obtain a better communication between the administration and the international students.
- ! In addition, to enable a better flow of information, and improve academic standards.
- ! ISAS is dedicated to the education and development of the Semmelweis University diverse student body and to creating a meaningful, learning centered campus life for students at the University.
- ! ISAS works in active partnership with student, faculty, and staff colleagues to strength and support student opportunities for learning, involvement, leadership, and creative expression that complement their academic experiences.
- ! ISAS further supports other student organizations and their leaders, and they in turn provide programs and resources to the student body and the wider University community.

### **ISAS Review**

The ISAS Review is the official magazine of ISAS. Please stay tuned to our monthly school-funded, student-run magazine sponsored by ISAS. It is always packed with interesting articles, interviews of our great teachers, funny stories and tips for the City. And of course a glimpse at the student life that is the middle page with full of photographs. Enjoy!

### **Book Fair**

ISAS holds the Book Fair annually, and on demand per semester. It is a great opportunity for everyone to get the most useful books for less and also to sell the ones not needed anymore. It is also a social gathering, and a chance for changing ideas about studying techniques and best teachers, notes, etc. You may also bring study tools/accessories to this event. It is not exclusively for books. Great way to connect, to save and make money. Hope to see you there!

## **Alumni Relations**

Since the introduction of the English Language Program 26 years ago, several thousand foreign students have studied and graduated at Semmelweis University. These students had come from almost every corner of the world, adding a unique international character to our university. Thanks to the university's solid international reputation and to our ongoing strive to enhance the quality of education foreign nationals show a steady interest in studying at Semmelweis University.

Semmelweis University decided to launch Semmelweis Alumni Association (SAA). With the help of SAA Semmelweis University aims at:

- ! keeping regular contact with our former students,
- ! providing a database for former students to reach each other,
- ! providing information about important events at Semmelweis University,
- ! providing information on the possibility to participate in residency and speciality training,
- ! organizing alumni reunions in the future.

Home Page: <http://alumni.semmelweis-egyetem.hu>

# Curricula

The language of tuition is English, but the knowledge of Hungarian is required when the clinical subjects are introduced, so the students could communicate with the Hungarian-speaking patients. Students have to study and practice the language in the basic and pre-clinical module.

## Faculty of Medicine – Study Programme

### BASIC MODULE First Year – 1<sup>st</sup> semester

Compulsory Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Basics of Biostatistics and Informatics	1	2	3	semi-final
Medical Biophysics I.	1.5	2	3	semi-final
Medical Chemistry	3	3.5	6	semi-final <sup>#</sup>
Behavioral Sciences I. (Medical Communication)	1	1	2	semi-final
Medical Sociology-	1	1	2	semi-final
Anatomy, Histology, Embryology I.	3	6	9	semi-final
Hungarian Medical Terminology I.	–	4	4	practical mark
Medical Terminology (Latin)	–	2	2	practical mark
Physical Education I.	–	1	–	signature
<i>Total Number of Credit Points from Obligatory Subjects</i>			<b>29+2</b>	

**4 credit points from obligatory elective / elective subjects** must be collected in each semester.

– The subject must be registered for, as well as completed, in the first or second semesters of the first year.

# The grade influences the qualification of the diploma.

### First Year – 2<sup>nd</sup> semester

Compulsory Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Medical Biophysics II.	2	2	4	final
Medical Biochemistry, Molecular and Cell Biology I.	3	4	7	semi-final
Anatomy, Histology, Embryology II.	3	6	9	semi-final
First Aid	–	1	0	signature
Hungarian Medical Terminology II.	–	4	2	practical mark
Physical Education II.	–	1	0	signature
Summer Nursing Practice	–	1 month / 170 hours	–	signature
Medical Sociology-	1	1	2	semi-final
Introduction to Medical Informatics (Obligatory elective subject)-	–	1	1	practical mark
Medical Profession (Obligatory elective subject)-	0.67	1.33	2	practical mark
<i>Total Number of Credit Points from Obligatory Subjects</i>			<b>27+2</b>	

**4 credit points from obligatory elective/elective subjects** must be collected in each semester.

– The subject must be registered for, as well as completed, in the first or second semesters of the first year.

– The subject must be registered for, and must be completed during the first 2 years of studies

**Second Year – 3<sup>rd</sup> semester**

Compulsory Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Anatomy, Cell, Histology and Embryology III.	3	4	7	semi-final
Medical Physiology I.	6	5	11	semi-final
Medical Biochemistry, Molecular and Cell Biology II.	3	3	6	semi-final
Hungarian Medical Terminology III.	–	4	2	practical mark
Physical Education III.	–	1	–	signature
<i>Total Number of Credit Points from Compulsory Subjects</i>			<b>26</b>	

Obligatory Elective Subject	Weekly		Credit Points	Examination
	Lectures	Practicals		
Introduction to Clinical Medicine	–	2	2	practical mark
<i>Total Number of Credit Points from Obligatory elective subject</i>			<b>2</b>	

**4 credit points from obligatory elective/elective subjects** must be collected in each semester.

**Second Year – 4<sup>th</sup> semester**

Compulsory Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Anatomy, Cell, Histology and Embryology IV.	1	2	3	final <sup>#</sup>
Medical Physiology II.	6	5	11	final <sup>#</sup>
Medical Biochemistry, Molecular and Cell Biology III.	3	3	6	final <sup>#</sup>
Hungarian Medical Terminology IV.	–	4	2	practical mark
Physical Education IV.	–	1	0	signature
Compulsory Nursing Practice (in summer, either after the 1st year or the 2nd year)	–	170 hours workload	–	signature
<i>Total Number of Credit Points from Compulsory Subjects</i>			<b>22</b>	

**4 credit points from obligatory elective/elective subjects** must be collected in each semester.

<sup>#</sup> The grade influences the qualification of the diploma.

**PRECLINICAL MODULE**

**Third Year – 5<sup>th</sup> semester**

Compulsory Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Pathophysiology and Clinical Lab. Diagnostics I.	1.5	3	4	semi-final
Medical Microbiology I.	1.5	2.5	4	semi-final
Pathology I.	3	4	7	semi-final
Immunology	2	2	4	semi-final <sup>#</sup>
Internal Medicine – Propedeutics	2	5	7	semi-final
Medical Aspects of Disaster Preparedness and Response I.	1H2 /semester	–	0	signature
Hungarian Medical Terminology V.	–	4	2	final
<i>Total Number of Credit Points from Compulsory Subjects</i>			<b>28</b>	

**At least 4 credit points from the obligatory electives / electives** must be collected in each semester.

<sup>#</sup> The grade influences the qualification of the diploma.

**Third Year – 6<sup>th</sup> semester**

Compulsory Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Pathophysiology and Clinical Lab. Diagnostics II.	1.5	2.5	4	final <sup>#</sup>
Medical Microbiology II.	1.5	2	3	final <sup>#</sup>
Pathology II.	3	4	7	final <sup>#</sup>
Internal Medicine I.	1.5	3	5	semi-final
Behavioral Sciences II. (Medical Psychology)	1	2.5	3	final
Medical Aspects of Disaster Preparedness and Response II.	1H2 /semester	–	0	signature
Basic Surgical Techniques	0.5	1.5	2	semi-final
Medical Imaging	12 /semester	16 /semester	2	semi-final
Genetics and Genomics	2	2	4	semi-final <sup>#</sup>
Internal Medicine Practice (in summer)	–	170 hours workload	–	signature
<i>Total Number of Credit Points from Compulsory Subjects</i>			<b>30</b>	

**At least 4 credit points from the obligatory electives / electives** must be collected in each semester.

<sup>#</sup> The grade influences the qualification of the diploma.

**CLINICAL MODULE**  
**Fourth Year – 7<sup>th</sup> semester**

Compulsory Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Pharmacology and Pharmacotherapy I.	2.5	2.5	5	semi-final
Public Health and Preventive Medicine I.	1	2.5	4	semi-final
Internal Medicine II.	1.5	3	4	semi-final
Surgery I.	2	1	3	semi-final
Internal Medicine III. – Cardiology	1	2	3	semi-final
Otorhinolaryngology (either)	1	2	3	semi-final <sup>#</sup>
Dermatology (or)	1.5	2.5	4	semi-final <sup>#</sup>
Pulmonology (either in the 1st or in the 2nd semester)	1	2	3	semi-final
Psychotherapy in medical practice	1	1	2	semi-final
Oral Surgery and Dentistry	2	0	2	semi-final <sup>#</sup>
Radiology	2	2	4	semi-final <sup>#</sup>
The Medical Fundamentals of Disaster Resolution III.	1H2 /semester	–	0	signature
<i>Total Number of Credit Points from Compulsory Subjects</i>			<b>37, 34, 33, 31 or 30</b>	
<i>Total Number of Credit Points from Obligatory elective / Elective Subjects</i>			<b>4</b>	

**4 credit points from obligatory elective / elective subjects** must be collected in each semester.

<sup>#</sup> The grade influences the qualification of the diploma.

**Fourth Year – 8<sup>th</sup> semester**

Compulsory Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Pharmacology and Pharmacotherapy II.	2.5	2.5	5	final
Public Health and Preventive Medicine II.	1	2.5	4	final
Surgery II.	2	2	4	semi-final
Laboratory Medicine	1.5	–	2	semi-final
Orthopaedics	1	2	3	semi-final <sup>#</sup>
Bioethics – Medical Ethics	2	0	2	semi-final
Otorhinolaryngology (either)	1	2	3	semi-final <sup>#</sup>
Dermatology (or)	1.5	2.5	4	semi-final <sup>#</sup>
Pulmonology (either in the 1st or in the 2nd semester)	1	2	3	semi-final
The Medical Fundamentals of Disaster Resolution IV.	1H2 /semester	–	0	signature
Summer surgery practice	–	1 month / 170 hours	–	signature
<i>Total Number of Credit Points from Compulsory Subjects</i>			<b>30, 27, 26, 24 or 23</b>	

**4 credit points from obligatory elective / elective subjects** must be collected in each semester.

<sup>#</sup> The grade influences the qualification of the diploma.

**Important note:**

Those students who have not completed the Preclinical Module subjects and therefore failed to pass **any of the prerequisites needed** for the 4<sup>th</sup> year courses are not allowed to step forward to the Clinical Module.

No permission is granted to take a 4<sup>th</sup> year course without the completed prerequisite.

No requests can be accepted regarding postponements.

**Fifth Year – 9<sup>th</sup> semester**

Compulsory Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Internal Medicine IV.	1.5	3	4	semi-final
Surgery III.	1	1	2	semi-final
Obstetrics and Gynaecology I.	2	–	2	practical mark
Pediatrics I.	2	3	5	practical mark
Psychiatry I.	1.5	2	3	semi-final
Neurology I.	2	1.5	3	practical mark
Forensic Medicine I.	1	1.5	2	semi-final
Intensive Therapy and Anaesthesiology	1.5	1.3	2	semi-final
Traumatology	1.5	2	3	semi-final
Ophthalmology	2	2	4	semi-final
Urology	1	2	3	semi-final
<i>Total Number of Credit Points from Compulsory Subjects</i>				<b>33</b>

**At least 4 credit points from the obligatory elctives / electives must be collected in each semester.**

**Fifth Year – 10<sup>th</sup> semester**

Compulsory Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Internal Medicine V.	2	3	5	semi-final
Obstetrics and Gynaecology II.	2	1 week /semester	4	semi-final
Pediatrics II.	2	3	5	semi-final
Psychiatry II.	1.5	2	4	practical mark
Neurology II.	2	1.5	4	semi-final
Forensic Medicine II.	1	2	3	semi-final
Oxyology – Emergency Medicine	1.5	1.1	1	semi-final
Family Medicine	1	–	1	semi-final
<i>Total Number of Credit Points from Compulsory Subjects</i>				<b>27</b>

**At least 4 credit points from the obligatory elctives / electives must be collected in each semester.**

### Sixth Year

Internship	Required number of weeks	Credit Pons	Examination
Internal Medicine 1 week Infectology 1 week Family medicine	9	9	final <sup>#</sup> signature signature
Surgery 2 weeks Traumatology 1 week Vascular surgery	9	9	final <sup>#</sup>
Pediatrics 1 week Infectology	8	8	final <sup>#</sup> signature
Obstetrics and Gynecology	5	5	final <sup>#</sup>
Neurology	4	4	final <sup>#</sup>
Psychiatry	4	4	final <sup>#</sup>
Transfusion Course	1	–	signature
Prehospital Emergency Medicine	2	–	signature
<i>Total</i>	<b>42</b>	<b>39</b>	
Thesis work		<b>20</b>	

<sup>#</sup> The grade influences the qualification of the diploma.

Please read more about the rules concerning the criteria of selecting the foreign clinical practice positions and accepting the practice period spent abroad:

<http://www.semmelweis-english-program.org>

[http://www.sote.hu/intezetek/oktatas/?inst\\_id=145&page\\_id=480](http://www.sote.hu/intezetek/oktatas/?inst_id=145&page_id=480)

Certificates can be downloaded at

[http://www.semmelweis-english-program.org/index.php?option=com\\_content&task=view&id=79&Itemid=101](http://www.semmelweis-english-program.org/index.php?option=com_content&task=view&id=79&Itemid=101)

**Please note the followings:**

1. When not at Semmelweis University the two weeks Traumatology is to be completed at a surgical department providing *neurochirurgia* as well.
2. It is strongly required to keep the instructions of Article 24 of the Examination and Studies Regulations concerning the requirements of the diploma work focusing especially on the deadlines.
3. The final exams can be done only on the exam dates published by the clinical departments of Semmelweis University.

**Please note:** there are no individual requests and the rule should be kept **strictly**.

## Faculty of Dentistry – Study Programme

### BASIC MODULE First Year – 1<sup>st</sup> semester

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
<b>Compulsory</b>				
Anatomy, Histology, Embryology I.	3	5	8	semifinal
Physical Bases of Dental Materials	2	0	2	semifinal
Medical Chemistry	3	3	6	final <sup>#</sup>
Medical Biology (Cellbiology)	2	1	3	final <sup>#</sup>
Biophysics I.	1.5	2	3	semifinal
Hungarian Language	0	4	2	practical mark
Physical Education I.	0	1	0	signature
<b>Obligatory elective</b>		0	2	
Medical Latin I.			2	practical mark
<i>Total Number of Credit Points</i>			<b>26</b>	

**15 credits should be gained from the elective subjects** during the 5-year studies.

<sup>#</sup> The grade influences the qualification of the diploma.

### First Year – 2<sup>nd</sup> semester

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
<b>Compulsory</b>				
Anatomy, Histology, Embryology II.	3	4	8	semifinal
Biophysics II.	2	2	5	final <sup>#</sup>
Biochemistry, Molecular and Cellbiology I.	3	3	7	semifinal
Hungarian Medical Terminology	0	4	2	practical mark
General Dental Materials	1	0	1	semifinal
Physical Education II	0	1	0	signature
Dental Laboratory Practice (summer, 2 weeks)	0	30	0	signature
Nursing Practice (summer, 2 weeks)	0	30	0	signature
<b>Obligatory elective</b>				
First aid	0	1	1	practical mark
Medical Informatics	1	2	3	semifinal
Medical Latin II.	0	2	2	practical mark
Dental Psychology	2	0	2	semifinal
Medical Sociology	1	1	2	semifinal
<i>Total Number of Credit Points</i>			<b>33</b>	

**15 credits should be gained from the elective subjects** during the 5-year studies.

<sup>#</sup> The grade influences the qualification of the diploma.



**BASIC MODULE**  
**Second Year – 3<sup>rd</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
<b>Compulsory</b>				
Anatomy, Histology, Embryology III.	3	4	7	semifinal
Biochemistry, Molecular and Cellbiology II.	3	2	5	semifinal
Medical and Dental Physiology I.	6	3.5	9	semifinal
Odontotechnology and Prostodontics Preclinical Course I.	1	2	3	practical mark
Hungarian Dental Terminology I.	0	4	2	practical mark
Physical Education III.	0	1	0	signature
<i>Total Number of Credit Points</i>			<b>26</b>	

**15 credits should be gained from the elective subjects** during the 5-year studies.

**Second Year – 4<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
<b>Compulsory</b>				
Anatomy (Maxillofacial Anatomy) IV.	3	2	6	final <sup>#</sup>
Biochemistry, Molecular and Cellbiology III.	3	2	5	final <sup>#</sup>
Medical and Dental Physiology II.	6	3.5	9	final <sup>#</sup>
Odontotechnology and Prostodontics Preclinical Course II.	1	3	4	practical mark
Conservative Dentistry and Endodontics, Pre-clinical I.	1	3	4	practical mark
Hungarian Dental Terminology II.	0	4	4	practical mark
General Dental Preclinical Practice	1	3	4	semifinal
Physical Education IV.	0	1	0	signature
<i>Total Number of Credit Points</i>			<b>36</b>	

**15 credits should be gained from the elective subjects** during the 5-year studies.

<sup>#</sup>The grade influences the qualification of the diploma.

**PRE-CLINICAL MODULE**

**Third Year – 5<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
<b>Compulsory</b>				
Conservative Dentistry and Endodontics, Pre-clinical II.	1	3	4	final <sup>#</sup>
General and Oral Microbiology	2	2	4	final <sup>#</sup>
General and Oral Pathophysiology	2	2	4	final <sup>#</sup>
Basic Immunology	2	1	3	semifinal
Hungarian Dental Terminology III.	0	4	2	practical mark
Oral and Maxillofacial Surgery, Pre-clinical course	0	2	2	practical mark
Pathology	3	2	5	final <sup>#</sup>
Preventive Dentistry I.	1	2	3	practical mark
Odontotechnology and Prosthodontics Preclinical Course III.	0	3	3	final <sup>#</sup>
<i>Total Number of Credit Points</i>	<b>30</b>			

**15 credits should be gained from the elective subjects** during the 5-year studies.

<sup>#</sup>The grade influences the qualification of the diploma.

**Third Year – 6<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
<b>Compulsory</b>				
Conservative Dentistry and Endodontics I.	1	3	4	practical mark
Internal Medicine I.	2	2	3	practical mark
Oral and Maxillofacial Surgery I.	1	3	4	practical mark
Oral Biology	3	2	5	final <sup>#</sup>
Genetics and Genomics	2	1	2	final <sup>#</sup>
Oral Pathology	2	2	4	final <sup>#</sup>
Preventive Dentistry II.	1	0	1	final <sup>#</sup>
Prosthodontics I.	1	3	4	practical mark
Radiation protection	1.5	1	2	semifinal
Hungarian Dental Terminology IV.	0	4	2	final
Oral Diagnostics I.	1	1	2	semifinal
Dento-Alveolar practice (summer, minimum 1 week)	0	30	0	signature
<i>Total Number of Credit Points</i>	<b>31</b>			

**15 credits should be gained from the elective subjects** during the 5-year studies.

<sup>#</sup>The grade influences the qualification of the diploma.

**CLINICAL MODULE**  
**Fourth Year – 7<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
<b>Compulsory</b>				
General and Dental Radiology	2	2	4	final <sup>#</sup>
Conservative Dentistry and Endodontics II.	1	3	4	practical mark
Internal Medicine II.	2	1	3	semifinal
Oral and Maxillofacial Surgery II.	1	3	4	practical mark
Periodontology I.	2	0	2	semifinal
Pharmacology, Toxicology I.	1	1	2	semifinal
Prosthodontics II.	1	6	7	semifinal
Orthodontics Pre-Clinical	0	1	1	practical mark
Gnathology	1	2	3	final <sup>#</sup>
<b>Obligatory elective</b>				
Neurology	1	0	1	semifinal
Psychiatry	1	0	1	semifinal
Dental Ethics	2	0	2	semifinal
Public Health	1.5	2	3	final <sup>#</sup>
<i>Total Number of Credit Points</i>			<b>39</b>	

**15 credits should be gained from the elective subjects** during the 5-year studies.

<sup>#</sup>The grade influences the qualification of the diploma.

**Fourth Year – 8<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
<b>Compulsory</b>				
Conservative Dentistry and Endodontics III.	1	3	4	practical mark
Internal Medicine III.	1	0	1	final <sup>#</sup>
Oral and Maxillofacial Surgery III.	1	3	4	semifinal
Periodontology II.	1	3	4	semifinal
Pharmacology, Toxicology II.	1	2	3	final <sup>#</sup>
Prosthodontics III.	1	3	4	practical mark
Implantology I.	1	0	1	semifinal
General Dentistry practice (summer, 4 weeks)	0	30	0	signature
<b>Obligatory elective</b>				
Surgery	2	1	3	final <sup>#</sup>
<i>Total Number of Credit Points</i>			<b>25</b>	

**15 credits should be gained from the elective subjects** during the 5-year studies.

<sup>#</sup>The grade influences the qualification of the diploma.

**CLINICAL MODULE**  
**Fifth Year – 9<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
<b>Compulsory</b>				
Clinical Dentistry I.	0	6	2	practical mark
Conservative Dentistry and Endodontics IV.	0	3	3	practical mark
Oral and Maxillofacial Surgery IV.	1	5	5	practical mark
Implantology II.	1	1	2	final <sup>#</sup>
Orthodontics I.	1	4	5	practical mark
Pedodontics I.	1	4	5	practical mark
Periodontology III.	1	2	3	practical mark
Prosthodontics IV.	0	3	3	practical mark
Oral Diagnostics II.	0	1	1	semifinal
<b>Obligatory elective</b>				
Forensic Dentistry	1	0	1	semifinal
Ophthalmology	1	0.5	1	final <sup>#</sup>
Otorhinolaryngology	1	0.5	1	final <sup>#</sup>
Pediatrics	1	0.5	1	semifinal
Prehospital Emergency Medicine	1	0	1	semifinal
<i>Total Number of Credit Points</i>	<b>34</b>			

**15 credits should be gained from the elective subjects** during the 5-year studies.

<sup>#</sup>The grade influences the qualification of the diploma.

**Fifth Year – 10<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
<b>Compulsory</b>				
Clinical Dentistry II.	0	6	3	practical mark
Conservative Dentistry and Endodontics V.	0	3	3	final <sup>#</sup>
Oral and Maxillofacial Surgery V.	1	3	4	final <sup>#</sup>
Oral Medicine	1	0	1	semifinal
Orthodontics II.	1	5	6	final <sup>#</sup>
Pedodontics II.	1	5	6	final <sup>#</sup>
Periodontology IV.	1.5	2	3	final <sup>#</sup>
Prosthodontics V.	0	3	3	final <sup>#</sup>
<b>Obligatory elective</b>				
Dermatology	1	0.5	1	final <sup>#</sup>
Obstetrics and Family Planning	1	0	1	semifinal
Diploma Work	–	–	20	–
<i>Total Number of Credit Points</i>	<b>51</b>			

**15 credits should be gained from the elective subjects** during the 5-year studies.

<sup>#</sup>The grade influences the qualification of the diploma.

## Faculty of Pharmacy – Study Programme

### First Year – 1<sup>st</sup> semester

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
General and Inorganic Chemistry I. Practice	–	5	5	pract. course grade
General and Inorganic Chemistry I.	4+1	–	5	semi-final
Introduction to Health Informatics I. Practice	–	1	–	signature
Introduction to Health Informatics I.	1	–	2	semi-final
Biophysics I. Practice	–	3	2	pract. course grade
Biophysics I.	2	–	3	semi-final
Biology I. Practice	–	2	2	pract. course grade
Biology I.	2	–	2	semi-final
Medical Terminology <sup>2</sup>	–	2	2	pract. course grade
Mathematics I. Practice	–	2	2	pract. course grade
Mathematics I.	2	–	2	semi-final
Physical Education I.	–	1	0	signature
History of Sciences, Propedeutics	2	–	2	semi-final
Hungarian Medical Terminology I. <sup>1</sup>	–	4	4	pract. course grade
<i>Total Number of Credit Points</i>	<b>33</b>			

<sup>1</sup> Obligatory course

<sup>2</sup> Obligatory elective course: (2 credit points)

### First Year – 2<sup>nd</sup> semester

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
General and Inorganic Chemistry II.	3	–	3	final <sup>#</sup>
Analytical Chemistry (qualitative)	2	5	5	pract. course grade
Anatomy	2	–	4	semi-final
Anatomy Practice	–	2	–	signature
Introduction to Health Informatics II. Practice	–	1	–	signature
Introduction to Health Informatics II.	1	–	2	semi-final
Biophysics II. Practice	–	3	2	pract. course grade
Biophysics II.	2	–	3	final <sup>#</sup>
Biology II. Practice	–	2	1	pract. course grade
Biology II.	2	–	2	final <sup>#</sup>
Pharmaceutical Botany I.	1	2	3	pract. course grade
Mathematics II. Practice	–	1	1	pract. course grade
Mathematics II.	2	–	2	semi-final
Physical Education II.	–	1	0	signature
First Aid	1	–	0	signature
Hungarian Medical Terminology II. <sup>1</sup>	–	4	2	pract. course grade
<i>Total Number of Credit Points</i>	<b>30</b>			

<sup>#</sup>The grade influences the qualification of the diploma.

<sup>1</sup> Obligatory course

**Second Year – 3<sup>rd</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Analytical Chemistry (quantitative) I.	2	5	7	pract. course grade
Physical Chemistry I.	4	–	4	semi-final
Pharmaceutical Botany II. Practice	–	3	2	pract. course grade
Pharmaceutical Botany II.	1	–	2	final <sup>#</sup>
Organic Chemistry I. Practice	–	5.5	5	pract. course grade
Organic Chemistry I.	4	–	5	semi-final
Physical Education III.	–	1	0	signature
Hungarian Medical Terminology III. <sup>1</sup>	–	4	2	pract. course grade
<i>Total Number of Credit Points</i>				<b>27</b>

<sup>#</sup>The grade influences the qualification of the diploma.

<sup>1</sup> Obligatory course

**Second Year – 4<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Analytical Chemistry (quantitative) II. Practice	–	5	2	pract. course grade
Analytical Chemistry (quantitative) II.	2	–	5	final <sup>#</sup>
Biochemistry I.	3	–	3	semi-final
Physical Chemistry II.	1	4	5	pract. course grade
Colloid Chemistry I.	2	–	2	semi-final
Organic Chemistry II. Practice	–	5.5	4	pract. course grade
Organic Chemistry II.	4	–	5	final <sup>#</sup>
Hungarian Medical Terminology IV. <sup>1</sup>	–	4	2	pract. course grade
Physical Education IV.	–	1	0	signature
Summer Practice I. <sup>2</sup>	–	35	4	–
<i>Total Number of Credit Points</i>				<b>28+4</b>

<sup>#</sup> The grade influences the qualification of the diploma.

<sup>1</sup> Obligatory course

<sup>2</sup> 4 weeks (140 hours) summer practice in elective place (accredited public / community pharmacy, Galenical laboratory, research institute, university department) after the second and third year.

**Third Year – 5<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Biochemistry II. Practice	–	1.5	0	signature
Biochemistry II.	2.5	–	3	final <sup>#</sup>
Physiology I. Practice	–	1	2	pract. course grade
Physiology I.	5	–	4	semi-final
Pharmaceutical Chemistry I.	4	5	8	pract. course grade
Pharmaceutical Technology I.	2	3	5	pract. course grade
Basic Immunology	1.5	–	2	semi-final
Colloid Chemistry II.	–	2	2	pract. course grade
Hungarian Medical Terminology V.	–	4	2	final
<i>Total Number of Credit Points</i>	<b>28</b>			

<sup>#</sup>The grade influences the qualification of the diploma.

**Third Year – 6<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Physiology II. Practice	–	1	2	pract. course grade
Physiology II.	5	–	4	final <sup>#</sup>
Pharmacognosy I. Practice	–	4	3	pract. course grade
Pharmacognosy I.	2	–	3	semi-final
Pharmaceutical Chemistry II. Practice	–	5	4	pract. course grade
Pharmaceutical Chemistry II.	4	–	4	semi-final
Pharmaceutical Microbiology	3	–	5	final <sup>#</sup>
Pharmaceutical Microbiology Practice	–	2	–	signature
Pharmaceutical Technology II. Practice	–	5	4	pract. course grade
Pharmaceutical Technology II.	2	–	3	semi-final
Summer Practice II. <sup>2</sup>	–	35	4	signature
<i>Total Number of Credit Points</i>	<b>34+4</b>			

<sup>#</sup>The grade influences the qualification of the diploma.

<sup>2</sup>4 weeks (140 hours) summer practice in elective place (accredited public / community pharmacy, Galenical laboratory, research institute, university department) after the second and third year.

**Fourth Year – 7<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Pharmacognosy II. Practice	–	4	3	pract. course grade
Pharmacognosy II.	2	–	3	final <sup>#</sup>
Pharmaceutical Chemistry III. Practice	–	4	3	pract. course grade
Pharmaceutical Chemistry III.	2	–	3	final <sup>#</sup>
Pharmacology and Toxicology I. Practice	–	2	2	pract. course grade
Pharmacology and Toxicology I.	4	–	4	semi-final
Pharmaceutical Technology III. Practice	–	9	5	pract. course grade
Pharmaceutical Technology III.	3	–	4	semi-final
Basic Medical Pathophysiology I.	2	–	2	semi-final
Industrial Pharmaceutical Technology I. <sup>1</sup>	2	–	2	semi-final
<i>Total Number of Credit Points</i>				<b>31</b>

**The prerequisite to start 4<sup>th</sup> year is to take a Basic Hungarian Language Exam (oral).**

<sup>#</sup>The grade influences the qualification of the diploma.

<sup>1</sup>Obligatory elective subject

**Fourth Year – 8<sup>th</sup> semester**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Pharmacology and Toxicology II. Practice	–	2	2	pract. course grade
Pharmacology and Toxicology II.	4	–	4	final <sup>#</sup>
Pharmaceutical Technology IV. Practice	–	9	6	pract. course grade
Pharmaceutical Technology IV.	3	–	4	final <sup>#</sup>
Pharmacy Administration I.	2	–	2	semi-final
Basic Medical Pathophysiology II.	2	–	2	final <sup>#</sup>
Public Health	2	–	2	final <sup>#</sup>
Public Health Practice	–	2	2	pract. course grade
Written scientific thesis (diploma work) I.	–	4	0	signature
Industrial Pharmaceutical Technology II. <sup>1</sup>	2	–	2	semi-final
<i>Total Number of Credit Points</i>				<b>26</b>

**The prerequisite to start 4<sup>th</sup> year is to take a Basic Hungarian Language Exam (oral).**

<sup>#</sup>The grade influences the qualification of the diploma.

<sup>1</sup>Obligatory elective subject



**Fifth Year – 9<sup>th</sup> semester (12 weeks)**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Compulsory Practical Training I. (2 months) <sup>1</sup>	–	40	8	pract. course grade
Biopharmacy-Pharmacokinetics Practice	–	3	2	pract. course grade
Biopharmacy-Pharmacokinetics	2	–	2	semi-final
Pharmaceutical Sociology, Ethics	2.5	–	2	semi-final
Basic Drug Therapy Practice	–	2	0	signature
Basic Drug Therapy	2	–	4	semi-final
Pharmacy Administration II. Practice	–	2	2	pract. course grade
Pharmacy Administration II.	2	–	2	final <sup>#</sup>
Clinical Pharmaceutical Care	2	–	4	semi-final
Clinical Pharmaceutical Care Practice	–	3	–	signature
Written Scientific Thesis (diploma work) II.	–	6	0	signature
Facultative subject 1.	3	–	2	semi-final
Facultative subject 2.	3	–	2	semi-final
Facultative subject 3.	3	–	2	semi-final
<i>Total Number of Credit Points</i>	<b>32</b>			

**Passing all examinations is the prerequisite for starting the compulsory practical training. Pharmacy students are obliged to do 6 months practical training continually or in two parts (2+4 months).**

<sup>#</sup>The grade influences the qualification of the diploma.

<sup>1</sup>The first part of the practical training (2 months/320 hours) has to be done in a public/community Pharmacy. Student should ask for permission if he/she would like to do the summer practice outside of Hungary, which has to be done in a public/community pharmacy and bring an acceptance letter.

**Fifth Year – 10<sup>th</sup> semester (16 weeks)**

Subjects	Weekly		Credit Points	Examination
	Lectures	Practicals		
Compulsory Practical Training I. (4 months) <sup>1</sup>	–	40	16	pract. course grade
Diploma Defence	–	–	15	final
<i>Total Number of Credit Points</i>	<b>31</b>			

**Passing all examinations is the prerequisite for starting the compulsory practical training. Pharmacy students are obliged to do 6 months practical training continually or in two parts (2+4 months).**

<sup>1</sup>Second part of the practical training (4 months) has to be done in a public pharmacy and in a hospital pharmacy (4 weeks at the same place).

**IMPORTANT:**

**Pharmacy graduates are entitled to bear the title of doctor. The name of the degree is Doctor of Pharmacy (dr. pharm.)**

# Semmelweis University Doctoral Studies

(Ph.D. School)

The School of Ph.D. Studies provides high quality education in scientific research. Doctoral candidates are welcome to join the following medical, biological and pharmaceutical programs:

**Molecular Medicine** (Human Molecular Genetics, Developmental Biology, Cellular and Molecular Physiology, Pathobiochemistry, Immunology)

**Physiology** (Circulatory System, Ischemic Cardiovascular Disorders, Exogenous and Endogenous Cardiovascular Agents, Fluid-Electrolyte Regulation, Ionizing Radiation)

**Pathology** (Oncology, Pathology of Extracellular Matrix, Microbiology, Public Health and Health Sciences)

**Pharmacology, Pharmaceutical Sciences**

**Neuroscience** (Basic Neuroscience, Neurology, Clinical Psychology and Psychiatry)

**Clinical Medicine** (Liver Diseases, Fetal and Neonatal Medicine, Chronic Diseases in Childhood, Gastroenterology, Dental Research, Hematology, Endocrinology, Orthopedics and Traumatology, Respiratory tract Diseases)

**Educational and Sport Sciences**

**Ph.D. Secretariat**

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