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Date of Foundation: 1912 Hungarian Royal University of Sciences. 2000 University of Debrecen.


Legal status of the University of Debrecen: state university

Founder of the University of Debrecen: Hungarian State Parliament

Supervisory body of the University of Debrecen: Ministry of Education


Number of Faculties at the University of Debrecen: 14
- Faculty of Law
- Faculty of Medicine
- Faculty of Humanities
- Faculty of Health
- Faculty of Dentistry
- Faculty of Economics and Business (before 1st August 2014 the predecessors of the Faculty were the Faculty of Applied Economics and Rural Development and the Faculty of Economics and Business Administration)
- Faculty of Child and Adult Education
- Faculty of Pharmacy
- Faculty of Informatics
- Faculty of Agricultural and Food Sciences and Environmental Management (before 1st March 2010 the name of the Faculty was the Faculty of Agriculture)
- Faculty of Engineering
- Faculty of Public Health
- Faculty of Sciences and Technology
- Faculty of Music

Number of accredited programmes at the University of Debrecen:
73 degree programmes with the pre-Bologna 5-year-system university education, 41 supplementary degree programmes offering transfer-degree continuation of studies towards the university degree (MSc), 50 degree programmes with the pre-Bologna 3-year-system college education, 67 BSc and 78 MSc programmes according to the Bologna system, 5 unified one-cycle linear training programmes, 35 specializations offering post-secondary vocational certificates and 159 vocational programmes.
CHAPTER 1

Number of students at the University of Debrecen: 28812
According to time of studies: 22888 full-time students, 5899 part-time students having corresponding classes and 25 part-time students having evening classes or distance education according to education level: 944 students at post-secondary vocational level, 17406 students at BSc, 3112 students at MSc, 21 students at college level, 190 students at university level (MSc), 5320 students at one-cycle linear training, 954 students at vocational programmes, 865 students at PhD, 3741 foreign students.

Full time teachers of the University of Debrecen: 1421
194 full college/university professors and 1055 lecturers with a PhD.
## LEADERS AND STAFF

### CHAPTER 2

#### LEADERS AND STAFF

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
<th>Phone/Fax</th>
<th>E-mail</th>
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</thead>
<tbody>
<tr>
<td><strong>RECTOR OF THE UNIVERSITY OF DEBRECEN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rector</td>
<td>Zoltán Szilvássy M.D., Ph.D., D.Sc.</td>
<td>4032 Debrecen, Egyetem tér 1.</td>
<td>+36 52 412 060</td>
<td>+36 416 490</td>
<td><a href="mailto:rector@unideb.hu">rector@unideb.hu</a></td>
</tr>
<tr>
<td><strong>COORDINATING CENTER FOR INTERNATIONAL EDUCATION</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Director</td>
<td>Attila Jenei M.Sc., Ph.D.</td>
<td>4032 Debrecen, Nagyerdei krt. 94.</td>
<td>+36 52 258 058</td>
<td>+36 52 414 013</td>
<td><a href="mailto:info@edu.unideb.hu">info@edu.unideb.hu</a></td>
</tr>
<tr>
<td><strong>PROGRAM DIRECTOR OF THE FOUNDATION COURSES AT NON-MEDICAL PROGRAM</strong></td>
<td></td>
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</tr>
<tr>
<td>Program Director</td>
<td>László Kozma, Ph.D.</td>
<td>4032 Debrecen, Nagyerdei krt. 94. Room 205.</td>
<td>+36-52-512-900/ext.: 62796</td>
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<td><a href="mailto:kozma@unideb.hu">kozma@unideb.hu</a></td>
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<tr>
<td>Program Coordinator</td>
<td>Attila Bérczes, Ph.D.</td>
<td>4032 Debrecen, Egyetem tér 1. Math Building 415.</td>
<td>+36-52-512-900/ ext.: 22801</td>
<td></td>
<td><a href="mailto:berczes@science.unideb.hu">berczes@science.unideb.hu</a></td>
</tr>
<tr>
<td><strong>Administration officer</strong></td>
<td>Andrea Harsányi</td>
<td>4032 Debrecen, Nagyerdei krt. 94. Room 207.</td>
<td>+36-52-512-900/ ext.: 62415</td>
<td></td>
<td><a href="mailto:andrea@edu.unideb.hu">andrea@edu.unideb.hu</a></td>
</tr>
<tr>
<td><strong>Admission officer</strong></td>
<td>Ibolya Kun</td>
<td>4032 Debrecen, Nagyerdei krt. 94. Room 207.</td>
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## CHAPTER 2

<table>
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<tr>
<th></th>
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<tr>
<td></td>
<td>+36 52 518 659</td>
<td><a href="mailto:ibolya@edu.unideb.hu">ibolya@edu.unideb.hu</a></td>
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### STUDENT SERVICE CENTER

<table>
<thead>
<tr>
<th>Role</th>
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<tr>
<td>Director</td>
<td>János Végső, Ph.D.</td>
</tr>
<tr>
<td>Address</td>
<td>4032 Debrecen, Egyetem tér 1. Kossuth Lajos Dormitory II. Building</td>
</tr>
<tr>
<td>Phone</td>
<td>+36 518 672</td>
</tr>
<tr>
<td>Phone/Fax</td>
<td>+36-52-518-677/ ext.: 73977</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:vegso.janos@unideb.hu">vegso.janos@unideb.hu</a></td>
</tr>
<tr>
<td>Administration officer</td>
<td>Ágnes Kerekes</td>
</tr>
<tr>
<td>Address</td>
<td>4032 Debrecen, Egyetem tér 1. Kossuth Lajos Dormitory II. Building</td>
</tr>
<tr>
<td>Phone</td>
<td>+36-52-512-900/ ext.: 73975</td>
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<td>Phone/Fax</td>
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</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:kerekes.agnes@unideb.hu">kerekes.agnes@unideb.hu</a></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:hszk@unideb.hu">hszk@unideb.hu</a></td>
</tr>
<tr>
<td>Neptun officer</td>
<td>Sándor Hamza</td>
</tr>
<tr>
<td>Phone</td>
<td>+36-52-512-900/ ext.: 23351</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:hamza.sandor@science.unideb.hu">hamza.sandor@science.unideb.hu</a></td>
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### COORDINATING CENTER FOR INTERNATIONAL EDUCATION

Nagyerdei krt.98., Debrecen, 4032

<table>
<thead>
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<tr>
<td>Director</td>
<td>Mr. Attila Jenei M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Program Director</td>
<td>Mr. László Kozma Ph.D.</td>
</tr>
<tr>
<td>Admission officer</td>
<td>Ms. Ibolya Kun</td>
</tr>
<tr>
<td>Administration officer</td>
<td>Ms. Andrea Harsányi</td>
</tr>
</tbody>
</table>
Types of Institutions and Institutional Control
The establishment and operation of higher education institutions are regulated by Act No. 204 of 2011 (National Higher Education Act). Operating within the legal framework of the National Higher Education Act, Hungarian higher education institutions are recognized state (public) or non-state (church or private) institutions. The list of recognized institutions is indicated in Annex 1 of the National Higher Education Act. Higher education studies are offered at two types of higher education institutions, egyetem (university) and főiskola (college). Universities and colleges may offer courses in all three training cycles. The programmes are identical at both types of institutions.

Types of Programmes and Degrees Awarded
The consecutive training cycles of higher education leading to a higher education degree are alapképzés (Bachelor course), mesterképzés (Master course) and doktori képzés (Doctoral course). In cases set by government decree or legislation, Master degrees can also be awarded after the completion of integrated, one-tier training. In addition to the aforementioned, higher education institutions may conduct non-degree vocational higher education programmes and postgraduate specialist trainings and may offer adult education within the framework of lifelong learning as well. Higher education institutions apply a credit system based on the European Credit Transfer and Accumulation System. Accordingly, one credit stands for an average of 30 hours of student workload.

Approval/Accreditation of Programmes and Degrees
In the case of each vocational higher education programme, Bachelor and Master course, the programme and outcome requirements are set in legal regulations, i.e. the level of the training, the professional qualification that can be obtained and all the competencies the acquisition of which are the preconditions for obtaining the diploma in the given programme. Upon request of the higher education institution, the Educational Authority – after having obtained the expert opinion of the Hungarian Accreditation Committee – licenses and registers the launching of all vocational higher education programmes, a Bachelor or Master courses or Doctoral schools. Also, the operating licenses of higher education institutions are revised by the Educational Authority in every 5 years, taking into account the expert opinion of the Hungarian Accreditation Committee. The above mentioned procedures apply for all recognized, state or non-state higher education institutions, except for religious studies, since the Hungarian Accreditation Committee and the Educational Authority have no competence over the quality assurance in this field. In the case of religious studies only the requirements in respect of infrastructure can be examined.

Organisation of Studies
Students studying in vocational higher education programmes, Bachelor and Master courses, as well as postgraduate specialist trainings complete their studies by passing a final examination. The final examination may consist of the defense of the degree thesis or diploma project, and additional oral, written or practical examinations.

• Vocational Higher Education Programmes
From 1 September 2013 higher-level vocational training has been replaced by vocational higher education programmes. This type of training no longer forms part of the National Register of Vocational Qualifications. The diploma obtained after the completion of a vocational higher education programme testifies a vocational higher education qualification, but it is not per se an
academic degree. A vocational higher education programme requires the completion of 120 to 150 credits; generally the length of the programme is 4-5 semesters.

- **First/Second Cycle Degree Programmes**
The first higher education degree is the alapfokozat (Bachelor degree) ending in a professional qualification. A Bachelor course requires the completion of 180 to 240 credits. The length of the programme is 6-8 semesters. The second higher education degree is the mesterfokozat (Master degree) ending in a professional qualification. Based on a Bachelor course, Master courses require the completion of 60 to 120 credits. The length of the programme is 2-4 semesters.

- **Integrated Programmes**
The integrated, one-tier programmes, which are based on the secondary school leaving examination (érettségi vizsga), lead to mesterfokozat (Master degree), have the length of 10-12 semesters and require the completion of 300 to 360 credits. Besides teacher education, religious studies and some programmes of arts, e. g. the following programmes are offered as integrated programmes: veterinary medicine, architecture, dentistry, pharmaceutics, law and medicine.

- **Specialised Graduate Studies**
Higher education institutions may also offer szakirányú továbbképzés (postgraduate specialist training) for Bachelor and Master degree holders in this type of a training. Through the completion of 60 to 120 credits a specialised qualification can be obtained. The length of the programme is 2-4 semesters.

- **Doctoral Programmes**
Based on a Master degree the doktori képzés (Doctoral course) requires the completion of at least 180 credits. The length of the programme is 36 months. Following the Doctoral course, or within the framework of the Doctoral course through a separate degree obtaining procedure, the scientific degree “Doctor of Philosophy” (abbreviation: PhD), or in the field of art “Doctor of Liberal Arts” (abbreviation: DLA) may be obtained. The maximum length of the degree obtaining procedure is 2 years.

**Grading Scheme**
The performance of students is generally assessed following a five-grade scale: excellent (5), good (4), satisfactory (3), pass (2), and fail (1) or a three-grade scale: pass with merit (5), pass (3), and unsatisfactory (1). Nevertheless, higher education institutions may also use other systems for assessment if they are comparable to those mentioned above.

**Access to Higher Education Programmes**
The ranking of students applying for higher education programmes is primarily based on their secondary school grades and their érettségi vizsga (secondary school leaving examination) results or based solely on the latter. The requirement for admission to vocational higher education programmes, Bachelor and integrated Master courses is the secondary school leaving examination taken – as a rule – after the completion of the 12th grade of a secondary school, certified by the Érettségi bizonyítvány (secondary school leaving certificate). The admission to certain programmes may also be based on health or professional requirements or aptitude tests. To Master courses students holding a Bachelor degree can be admitted. To postgraduate specialist trainings students holding a Bachelor or a Master degree may be admitted. To Doctoral courses only applicants holding a Master degree can be admitted. Higher education institutions may set additional requirements for admission to Master, postgraduate specialist and Doctoral courses.

**Additional Sources of Information**
Hungarian ENIC/NARIC (http://www.naric.hu), Ministry of Human Capacities (http://www.kormany.hu/en/ministry-of-human-resources), Educational Authority
INFORMATION ON THE HUNGARIAN HIGHER EDUCATION SYSTEM

CHAPTER 4
INTERNATIONAL FOUNDATION YEAR

International Foundation Year (from September till May)
For those students who require additional instruction or review in sciences and in English language we offer foundation year courses to prepare them to study in their chosen degree program. Offering a range of courses, including intensive English language study, which bridges the gap between the students' current qualifications and background and the knowledge and skills required for honors courses, the International Foundation Year provides students with the necessary skills to proceed to study their chosen discipline.

Education of basic science subjects - biology, physics, mathematics and chemistry is quite demanding in Hungarian High Schools. The Foundation Year program is recommended for those applicants who do not have enough knowledge in biology, physics, chemistry, mathematics or in any of these subjects according to Hungarian standards, and need further studies and a period for acclimatization before entering an engineering, IT or business program. In addition to these basic scientific subjects, courses in Academic English and Hungarian languages are also included in the program.

Those students who have been studying at the International Foundation Year and achieve a grade average of minimum 3.5 in the first semester and 4.0 in the second semester can enter the first year of their chosen program without sitting for an entrance exam. The grade averages will be calculated on the basis of the grades entered into Neptun by the instructors (except for grades in Hungarian Language and Introduction to Hungarian Culture, which will not be included in the calculation). Please note: if you failed in one of your courses in the exam subjects (Math/Chemistry/Physics) you must take the entrance exam (it’s not possible to calculate a grade average)!

Students who pass the entrance exam or achieve the above requirements and turn out to be eligible for being admitted to first year will get an admission letter that will be issued within 1 week after the entrance exam.

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<th>Study program</th>
<th>Exam subjects</th>
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<tbody>
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<td>Agribusiness and Rural Development Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
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<tr>
<td>Agricultural Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
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<tr>
<td></td>
<td>Chemistry (written and oral)</td>
</tr>
<tr>
<td>Business Administration and Management, BA</td>
<td>Mathematics (written and oral)</td>
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<tr>
<td>Business Informatics, BSc</td>
<td>Mathematics (written and oral)</td>
</tr>
<tr>
<td>Computer Science, BSc</td>
<td>Mathematics (written and oral)</td>
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<tr>
<td>Computer Science Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
</tr>
<tr>
<td></td>
<td>Physics (written and oral)</td>
</tr>
<tr>
<td>Chemical Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
</tr>
<tr>
<td>Biochemical Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
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<td>Chemistry (written and oral)</td>
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<td>Mechanical Engineering, BSc</td>
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</tr>
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<td>Physics (written and oral)</td>
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<td>Mechatronics Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
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<td>Physics (written and oral)</td>
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<td>Civil Engineering, BSc</td>
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<td></td>
<td>Physics (written and oral)</td>
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### CHAPTER 5
UNIVERSITY CALENDAR FOR THE INTERNATIONAL FOUNDATION YEAR

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<th>Date(s)</th>
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<tr>
<td>Registration week</td>
<td>7th - 11th September 2015 (1 week)</td>
</tr>
<tr>
<td>1st semester study period for non-graduating students</td>
<td>From 14th September till 18th December 2015 (14 weeks)</td>
</tr>
<tr>
<td>Registration, signing up for courses in Neptun (without paying registration fee)</td>
<td>7th – 18th September 2015 (2 weeks)</td>
</tr>
<tr>
<td>Bank Holiday – Day of the Republic, commemorating the revolution of 1956</td>
<td>23rd October</td>
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<tr>
<td>Bank Holiday - All Saints’ Day</td>
<td>1st November</td>
</tr>
<tr>
<td>Bank Holiday - Christmas</td>
<td>25 – 26th December</td>
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<tr>
<td>Bank Holiday – New Year’s Day</td>
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<td>Bank Holiday – New Year’s Day</td>
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<tr>
<td>Bank Holiday – New Year’s Day</td>
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<tr>
<td>Registration week for the 2nd semester</td>
<td>8th – 12th February 2016 (1 week)</td>
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<td>2nd semester study period for non-graduating students</td>
<td>From 15th February till 20th May 2016 (14 weeks)</td>
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<td>Bank Holiday – commemorating the Hungarian Revolution of 1848</td>
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<td>Bank Holiday - Easter</td>
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<tr>
<td>Bank Holiday – Labour Day</td>
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<td>Entrance exam period</td>
<td>From 23rd May till 8th July 2016</td>
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<td>Bank Holiday – Pentecost</td>
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<tr>
<td>Bank Holiday – St. Stephen’s Day, commemorating the first king of Hungary</td>
<td>20th August</td>
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CHAPTER 6

CURRICULUM OF THE INTERNATIONAL FOUNDATION YEAR PROGRAM

In the frame of the International Foundation Year Program students have to choose one of the following specializations, depending on which major they wish to apply for:

- Information Technology (IT)
- Engineering (E)
- Biochemical Engineering (BE)
- Chemical Engineering (CE)
- Business (B)

Some of the courses are compulsory for all specializations, others are compulsory for only some of the specializations, as indicated in the table.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
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<th>Exam/Pract.</th>
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<tr>
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</tr>
<tr>
<td>TTIF_PROG</td>
<td>Introduction to Programming</td>
<td>56</td>
<td>6</td>
<td></td>
<td>IT</td>
<td>2</td>
</tr>
<tr>
<td>TTIF_COMM</td>
<td>Communication</td>
<td>28</td>
<td>3</td>
<td>P</td>
<td>B</td>
<td>1</td>
</tr>
</tbody>
</table>

**Elective courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
<th>Total hours</th>
<th>Credits</th>
<th>Exam/Pract.</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>TTIS_HUNG_LA NG1</td>
<td>Hungarian Language 1</td>
<td>40</td>
<td>2</td>
<td>P</td>
<td>All</td>
</tr>
<tr>
<td>TTIS_HUNG_LA NG2</td>
<td>Hungarian Language 2</td>
<td>40</td>
<td>2</td>
<td>P</td>
<td>All</td>
</tr>
</tbody>
</table>

**Required optional courses (at least one course is compulsory)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
<th>Total hours</th>
<th>Credits</th>
<th>Exam/Pract.</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>TTIS_HUNG_CULT1</td>
<td>Introduction to Hungarian Culture 1</td>
<td>28</td>
<td>3</td>
<td>P</td>
<td>All</td>
</tr>
<tr>
<td>TTIS_HUNG_CULT2</td>
<td>Introduction to Hungarian Culture 2</td>
<td>28</td>
<td>3</td>
<td>P</td>
<td>All</td>
</tr>
</tbody>
</table>

P: practical exam
Subject: ACADEMIC ENGLISH FOR ENGINEERING 1
Year, Semester: 1st year/1st semester
Seminar: 56

Requirements

Topics:

Recommended Readings:

Subject: ACADEMIC ENGLISH FOR IT 1
Year, Semester: 1st year/1st semester
Seminar: 56

Requirements

Topics:

Recommended Readings:
2. Eric H. Glendinning: Technology 1-2, Oxford University Press
Subject: **COLLEGE ALGEBRA**
Year, Semester: 1\textsuperscript{st} year/1\textsuperscript{st} semester
Seminar: 56

**Requirements**

**Topics:**

**Recommended Readings:**
A. Bérczes, Á. Pintér: *College Algebra*
http://math.unideb.hu/media/berczes-attila/College-Algebra.pdf

Subject: **COLLEGE CHEMISTRY 1**
Year, Semester: 1\textsuperscript{st} year/1\textsuperscript{st} semester
Lecture: 28
Seminar: 28

**Requirements**

**Topics:**
Compounds.

Recommended Readings:
Ebbing: *General chemistry*
Holtzclaw, Robinson: *College Chemistry*

Subject: **COLLEGE DISCRETE MATHEMATICS**
Year, Semester: 1st year/1st semester
Seminar: 56

**Requirements**

**Topics:**

Recommended Readings:
http://math.unideb.hu/horvath-gabor/teaching/colldiscrmath.html

Subject: **COLLEGE PHYSICS 1**
Year, Semester: 1st year/1st semester
Seminar: 56

**Requirements**

**Topics:**
and two dimensions. Center of mass.

**Recommended Readings:**

**Subject:** COMMUNICATION  
**Year, Semester:** 1st year/1st semester  
**Seminar:** 28

**Requirements**

**Topics:**
The course is designed to improve students’ abilities to communicate in English. During the course students will be exposed to a number of communication strategies that they will analyze, compare, and ultimately put into practice. The course will increase students’ awareness of communication in a general sense, and get them to take a fresh look at their strategies in their mother tongue as well as in the foreign language. Learners will develop their English language skills by discussing various topics and get the chance to bring their own opinions to bear on complex business dilemmas. They will be encouraged to think about aspects of communication such as cross-cultural awareness and stereotyping. The discussed topics will be: Getting acquainted. Smoke Signals. A Pirate’s Dilemma. A Year in Fashion. Big Fish Don’t Jump. The Barbecue. Plague and Prejudice. The Abalone Mystery. The Hohokum Virus. Wall Street Blues. Dirty work. The Write Stuff. Selling your soul.

**Recommended Readings:**

**Subject:** ENGLISH LANGUAGE 1  
**Year, Semester:** 1st year/1st semester  
**Seminar:** 56

**Requirements**

**Topics:**

**Recommended Readings:**
Subject: ENGLISH FOR BUSINESS 1
Year, Semester: 1st year/1st semester
Seminar: 28

Requirements

Topics:

Recommended Readings:
as supplied by instructor

Subject: HUNGARIAN LANGUAGE 1
Year, Semester: 1st year/1st semester
Seminar: 40

Requirements

Topics:

Recommended Readings:
Subject: **IT SKILLS 1**  
Year, Semester: 1st year/1st semester  
Seminar: 56

**Requirements**

**Topics:**

**Recommended Readings:**
1. *MS Word Topics*, Tech on the Net:  
http://www.techonthenet.com/word/index.php  
2. *PowerPoint: help and how-to*:  

Subject: **INTRODUCTION TO HUNGARIAN CULTURE 1**  
Year, Semester: 1st year/1st semester  
Seminar: 28

**Requirements**

**Topics:**
Turning points in Hungarian history 1: From the House of Árpád to the Turkish Wars: occupation of the Carpathian basin. Founding of the Hungarian Kingdom. St. Stephen. The Turkish wars: Nándorfehérvár. Mohács, Eger, the reoccupation. Study Trip.  
Recommended Readings:
Power Point slides will be made available on a weekly basis. The course comes with a REQUIRED printed textbook which will be dealt out in the first class.

Subject: ACADEMIC ENGLISH FOR ENGINEERING 2
Year, Semester: 1st year/2nd semester
Seminar: 56

Requirements

Topics:
Academic writing skills.

Recommended Readings:

Subject: ACADEMIC ENGLISH FOR IT 2
Year, Semester: 1st year/2nd semester
Seminar: 56

Requirements

Topics:

Recommended Readings:
2. Eric H. Glendinning: Technology 1-2, Oxford University Press
Subject: **ACADEMIC WRITING**

Year, Semester: 1\textsuperscript{st} year/2\textsuperscript{nd} semester

Seminar: 56

**Requirements**

**Topics:**

**Recommended Readings:**

Subject: **COLLEGE ANALYSIS**

Year, Semester: 1\textsuperscript{st} year/2\textsuperscript{nd} semester

Seminar: 56

**Requirements**

**Topics:**
CHAPTER 6

Recommended Readings:
A. Bérczes, A. Gilányi: *Analysis textbook*

Subject: **COLLEGE CHEMISTRY 2**  
Year, Semester: 1st year/2nd semester  
Lecture: 28  
Seminar: 28

**Requirements**

**Topics:**  

**Recommended Readings:**  
Ebbing: *General chemistry*  
Holtzclaw, Robinson: *College Chemistry*

Subject: **COLLEGE GEOMETRY**  
Year, Semester: 1st year/2nd semester  
Seminar: 56

**Requirements**

**Topics:**  
Coordinate geometry: The analytic model of Euclidean geometry. Distance between points in the coordinate plane. Equation of lines (slope-intersect form) and circles. Parallelism and perpendicularly. Distance of a point from a line. Intersections (line-line, line-circle, circle-circle). Tangent lines to a circle from an external point. Conics (ellipse, hyperbole, parabola). Coordinate geometry on the sphere: longitudes and latitudes.
Recommended Readings:
L. Kozma, Cs. Vincze: *Elementary Geometry*
http://math.unideb.hu/media/nagy-abris//Collegegeom-main-1.pdf

Subject: **COLLEGE PHYSICS 2**
Year, Semester: 1st year/2nd semester
Seminar: 56

Requirements

Topics:

Recommended Readings:

Subject: **ENGLISH LANGUAGE 2**
Year, Semester: 1st year/2nd semester
Seminar: 56

Requirements

Topics:
CHAPTER 6

Recommended Readings:

Subject: **ENGLISH FOR BUSINESS 2**  
Year, Semester: 1st year/2nd semester  
Seminar: 28

**Requirements**

**Topics:**  

**Recommended Readings:**  
as supplied by instructor

Subject: **HUNGARIAN LANGUAGE 2**  
Year, Semester: 1st year/2nd semester  
Seminar: 40

**Requirements**

**Topics:**  

**Recommended Readings:**  
Subject: **IT SKILLS 2**  
Year, Semester: 1st year/2nd semester  
Seminar: 56

**Requirements**

**Topics:**

**Recommended Readings:**

Subject: **INTRODUCTION TO HUNGARIAN CULTURE 2**  
Year, Semester: 1st year/2nd semester  
Seminar: 28

**Requirements**

**Topics:**

**Recommended Readings:**
The course is supplemented by a textbook/course packet.  
CHAPTER 6

Subject: INTRODUCTION TO PROGRAMMING
Year, Semester: 1st year/2nd semester
Lecture: 28
Seminar: 28

Requirements

Topics:

Recommended Readings:
1. Adrian Kingsley-Hughes: Beginning Programming, Wiley, 2005
Intensive Foundation Semester (from February till June)

For those students who require additional instruction or review in sciences and in English language we offer foundation courses to prepare them to study in their chosen degree program. Offering a range of courses, including intensive English language study, which bridges the gap between the students' current qualifications and background and the knowledge and skills required for honors courses, the Intensive Foundation Semester provides students with the necessary skills to proceed to study their chosen discipline.

Education of basic science subjects - physics, mathematics and chemistry is quite demanding in Hungarian High Schools. The Foundation Year program is recommended for those applicants who do not have enough knowledge in physics, chemistry, mathematics or in any of these subjects according to Hungarian standards, and need further studies and a period for acclimatization before entering an agriculture, engineering, IT or business program. In addition to these basic scientific subjects, courses in academic English and Hungarian languages are also included in the program.

Those students who have been studying at the Intensive Foundation Semester and achieve a grade average of minimum 4.0 can enter the first year of their chosen program without sitting for an entrance exam.

The grade averages will be calculated on the basis of the grades entered into Neptun by the instructors (except for grades in Hungarian Language and Introduction to Hungarian Culture, which will not be included in the calculation). Please note: if you failed in one of your courses in the exam subjects (Math/Chemistry/Physics) you must take the entrance exam (it’s not possible to calculate a grade average)!

Students who pass the entrance exam or achieve the above requirements and turn out to be eligible for being admitted to first year will get an admission letter that will be issued within 1 week after the entrance exam.

<table>
<thead>
<tr>
<th>Study program</th>
<th>Exam subjects</th>
<th>English Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agribusiness and Rural Development Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
<td></td>
</tr>
<tr>
<td>Agricultural Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
<td>Chemistry (written and oral)</td>
</tr>
<tr>
<td>Business Administration and Management, BA</td>
<td>Mathematics (written and oral)</td>
<td>written *</td>
</tr>
<tr>
<td>Business Informatics, BSc</td>
<td>Mathematics (written and oral)</td>
<td></td>
</tr>
<tr>
<td>Computer Science, BSc</td>
<td>Mathematics (written and oral)</td>
<td></td>
</tr>
<tr>
<td>Computer Science Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
<td>Physics (written and oral)</td>
</tr>
<tr>
<td>Chemical Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
<td>Chemistry (written and oral)</td>
</tr>
<tr>
<td>Study program</td>
<td>Exam subjects</td>
<td>English Language</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Biochemical Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
<td>Chemistry (written and oral)</td>
</tr>
<tr>
<td>Mechanical Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
<td>Physics (written and oral)</td>
</tr>
<tr>
<td>Mechatronics Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
<td>Physics (written and oral)</td>
</tr>
<tr>
<td>Electrical Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
<td>Physics (written and oral)</td>
</tr>
<tr>
<td>Civil Engineering, BSc</td>
<td>Mathematics (written and oral)</td>
<td>Physics (written and oral)</td>
</tr>
</tbody>
</table>
### Registration week
8th – 12th February 2016 (1 week)

### Study period
From 15th February till 10th June 2016 (17 weeks)

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bank Holiday – commemorating the Hungarian Revolution of 1848</td>
<td>15th March</td>
</tr>
<tr>
<td>Bank Holiday - Easter</td>
<td>28th March</td>
</tr>
<tr>
<td>Bank Holiday – Labour Day</td>
<td>1st May</td>
</tr>
<tr>
<td>Entrance exam period</td>
<td>From 13th June till 24th June 2016</td>
</tr>
<tr>
<td>Bank Holiday – Pentecost</td>
<td>16th May</td>
</tr>
<tr>
<td>Bank Holiday – St. Stephen’s Day, commemorating the first king of Hungary</td>
<td>20th August</td>
</tr>
</tbody>
</table>
In the frame of the Intensive Foundation Semester Program students have to choose one of the following specializations, depending on which major do they wish to apply for:

- Information Technology (IT)
- Engineering (E)
- Biochemical Engineering (BE)
- Chemical Engineering (CE)
- Management (B)

Some of the courses are compulsory for all specializations, others are compulsory for only some of the specializations, as indicated in the last column of the table.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
<th>Total hours</th>
<th>Credits</th>
<th>Exam/ Pract.</th>
<th>Specialization</th>
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<tbody>
<tr>
<td></td>
<td><strong>Compulsory courses</strong></td>
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<td>TTIS_ALGE</td>
<td>College Algebra, Intensive</td>
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<td>P</td>
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<td>TTIS_DISC</td>
<td>College Discrete Mathematics, Intensive</td>
<td>40</td>
<td>4</td>
<td>P</td>
<td>All</td>
</tr>
<tr>
<td>TTIS_GEOM</td>
<td>College Geometry, Intensive</td>
<td>40</td>
<td>4</td>
<td>P</td>
<td>All</td>
</tr>
<tr>
<td>TTIS_ANAL</td>
<td>College Analysis, Intensive</td>
<td>40</td>
<td>4</td>
<td>P</td>
<td>All</td>
</tr>
<tr>
<td>TTIS_COMP</td>
<td>IT Skills, Intensive</td>
<td>56</td>
<td>6</td>
<td>P</td>
<td>All</td>
</tr>
<tr>
<td>TTIS_ENGL</td>
<td>English Language, Intensive</td>
<td>56</td>
<td>3</td>
<td>P</td>
<td>All</td>
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<tr>
<td>TTIS_ENGLW</td>
<td>Academic Writing, Intensive</td>
<td>56</td>
<td>3</td>
<td>P</td>
<td>B</td>
</tr>
<tr>
<td>TTIS_ENGA_IT</td>
<td>Academic English for Engineering, Intensive</td>
<td>56</td>
<td>3</td>
<td>P</td>
<td>IT</td>
</tr>
<tr>
<td>TTIS_ENGA_E</td>
<td>Academic English for IT, Intensive</td>
<td>56</td>
<td>3</td>
<td>P</td>
<td>E, CE, BE</td>
</tr>
<tr>
<td>TTIS_PHYS</td>
<td>College Physics, Intensive</td>
<td>56</td>
<td>6</td>
<td>P</td>
<td>E</td>
</tr>
<tr>
<td>TTIS_CHEM1</td>
<td>College Chemistry 1, Intensive</td>
<td>28</td>
<td>3</td>
<td></td>
<td>CE, BE</td>
</tr>
<tr>
<td>TTIS_CHEM2</td>
<td>College Chemistry 2, Intensive</td>
<td>56</td>
<td>6</td>
<td></td>
<td>CE, BE</td>
</tr>
<tr>
<td>TTIS_PROG</td>
<td>Introduction to Programming, Intensive</td>
<td>56</td>
<td>6</td>
<td></td>
<td>IT</td>
</tr>
<tr>
<td>TTIS_COMM</td>
<td>Communication, Intensive</td>
<td>28</td>
<td>3</td>
<td>P</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td><strong>Elective courses</strong></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>TTIS_HUNG_LA.getCurrentUser</td>
<td>Hungarian Language 1, Intensive</td>
<td>40</td>
<td>2</td>
<td>P</td>
<td>All</td>
</tr>
<tr>
<td>Code</td>
<td>Course name</td>
<td>Total hours</td>
<td>Credits</td>
<td>Exam/Pract.</td>
<td>Specialization</td>
</tr>
<tr>
<td>---------------------</td>
<td>---------------------------------</td>
<td>-------------</td>
<td>---------</td>
<td>-------------</td>
<td>----------------</td>
</tr>
<tr>
<td>TTIS_HUNG_LANG2</td>
<td>Hungarian Language 2, Intensive</td>
<td>40</td>
<td>2</td>
<td>P</td>
<td>All</td>
</tr>
</tbody>
</table>

Required optional courses (at least one course is compulsory)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
<th>Total hours</th>
<th>Credits</th>
<th>Exam/Pract.</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>TTIS_HUNG_CULT</td>
<td>Introduction to Hungarian Culture</td>
<td>28</td>
<td>3</td>
<td>P</td>
<td>All</td>
</tr>
<tr>
<td>TTIS_HUNG_CULT2</td>
<td>Introduction to Hungarian Culture 2</td>
<td>28</td>
<td>3</td>
<td>P</td>
<td>All</td>
</tr>
</tbody>
</table>

P: practical exam
Coordinating Center for International Education

Subject: **ACADEMIC ENGLISH FOR ENGINEERING, INTENSIVE**  
Year, Semester: 1st year/2nd semester  
Seminar: 56

**Requirements**

**Topics:**

**Recommended Readings:**

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Subject: **ACADEMIC ENGLISH FOR IT, INTENSIVE**  
Year, Semester: 1st year/2nd semester  
Seminar: 56

**Requirements**

**Topics:**

**Recommended Readings:**
Subject: **ACADEMIC WRITING, INTENSIVE**  
Year, Semester: 1st year/2nd semester  
Seminar: 56

**Requirements**

**Topics:**  

**Recommended Readings:**  

---

Subject: **COLLEGE ALGEBRA, INTENSIVE**  
Year, Semester: 1st year/2nd semester  
Seminar: 40

**Requirements**

**Topics:**  

**Recommended Readings:**  
A. Bérczes, Á. Pintér: *College Algebra*:
CHAPTER 9

http://math.unideb.hu/media/berczes-attila/College-Algebra.pdf

Subject: COLLEGE ANALYSIS, INTENSIVE
Year, Semester: 1st year/2nd semester
Seminar: 40

Requirements

Topics:
Quadratic functions: The X-intercepts. The Y-intercept. The extremal point and the graph of a quadratic function.

Recommended Readings: A. Bérczes, A. Gilányi: Analysis textbook:

Subject: COLLEGE CHEMISTRY 1, INTENSIVE
Year, Semester: 1st year/2nd semester
Lecture: 14
Seminar: 14

Requirements

Topics:
Molar mass. Naming elements. Inorganic compounds and ions. Empirical, molecular and structural
states: gases, liquids and solids. Chemical equations. Balancing chemical equations. Rate of
reactions. Rate law. Overall rate. Rate constant. Abundance, occurrence and production of the
elements. Hydrogen. Noble gases. Group 17 elements and their compounds. Group 16 elements and
their compounds. Group 15 elements and their compounds. Group 14 and 13 elements and their
compounds.

Recommended Readings:
Ebbing: *General chemistry*
Holtzclaw, Robinson: *College Chemistry*

Subject: **COLLEGE CHEMISTRY 2, INTENSIVE**
Year, Semester: 1st year/2nd semester
Lecture: 28
Seminar: 28

Requirements

Topics:
General characterization of metallic elements. P and s block metals and their compounds. D block
metals and their compounds. The origins of organic chemistry. Bonding and molecular properties.
Families of organic compounds. Functional groups. The priority order. An overview of organic
Alkynes. SR reactions. Aromatic compounds and their SEAr reactions. Alkyl Halides. Alcohols,
ethers, thiols. Nomenclature and SN reactions. Applications. Amines – classification, nomenclature,
reactions. Examples from nature. Chemistry of carbonyl Compounds: aldehydes, ketones. Their
AdN reactions. Silver mirror test. Carboxylic acids and their derivatives: anhydrides, amides, esters,
nitriles. Amino acids, peptides, proteins. The essential amino acids.

Recommended Readings:
Ebbing: *General chemistry*
Holtzclaw, Robinson: *College Chemistry*

Subject: **COLLEGE DISCRETE MATHEMATICS, INTENSIVE**
Year, Semester: 1st year/2nd semester
Seminar: 40

Requirements

Topics:
Introduction to the course. Introductory combinatorial exercises. Sets. Number of subsets. Division
Permutations. The number of ordered subsets, anagrams. The number of subsets of a given size.
CHAPTER 9
Distributing money. Balls and urns. Number of positive integer solutions of linear equations.


Recommended Readings:

Subject: COLLEGE GEOMETRY, INTENSIVE
Year, Semester: 1st year/2nd semester
Seminar: 40

Requirements
Topics:

Recommended Readings:
L. Kozma, Cs. Vincze: Elementary Geometry:
http://math.unideb.hu/media/nagy-abris//Collegegeom-main-1.pdf

Subject: COLLEGE PHYSICS, INTENSIVE
Year, Semester: 1st year/2nd semester
Seminar: 56

Requirements
Topics:

Recommended Readings:

Subject: COMMUNICATION, INTENSIVE
Year, Semester: 1st year/2nd semester
Seminar: 28

Requirements

Topics:
The course is designed to improve students’ abilities to communicate in English. During the course students will be exposed to a number of communication strategies that they will analyze, compare, and ultimately put into practice. The course will increase students’ awareness of communication in a general sense, and get them to take a fresh look at their strategies in their mother tongue as well as in the foreign language. Learners will develop their English language skills by discussing various topics and get the chance to bring their own opinions to bear on complex business dilemmas. They will be encouraged to think about aspects of communication such as cross-cultural awareness and stereotyping. The discussed topics will be: Getting acquainted. Smoke Signals. A Pirate’s Dilemma. A Year in Fashion Big Fish Don’t Jump. The Barbecue. Plague and Prejudice. The Abalone Mystery. The Hohokum Virus. Wall Street Blues. Dirty work. The Write Stuff. Selling your soul.

Recommended Readings:
Subject: **ENGLISH LANGUAGE, INTENSIVE**  
Year, Semester: 1\textsuperscript{st} year/2\textsuperscript{nd} semester  
Seminar: 56

**Requirements**

**Topics:**  

**Recommended Readings:**  

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Subject: **HUNGARIAN LANGUAGE 1, INTENSIVE**  
Year, Semester: 1\textsuperscript{st} year/2\textsuperscript{nd} semester  
Seminar: 40

**Requirements**

**Topics:**  

**Recommended Readings:**  
Subject: **HUNGARIAN LANGUAGE 2, INTENSIVE**  
Year, Semester: 1\textsuperscript{st} year/2\textsuperscript{nd} semester  
Seminar: **40**

**Requirements**

**Topics:**  

**Recommended Readings:**  

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Subject: **IT SKILLS, INTENSIVE**  
Year, Semester: 1\textsuperscript{st} year/2\textsuperscript{nd} semester  
Seminar: **56**

**Requirements**

**Topics:**  
CHAPTER 9

Recommended Readings:

Subject: INTRODUCTION TO HUNGARIAN CULTURE 1, INTENSIVE
Year, Semester: 1st year/2nd semester
Seminar: 28

Requirements

Topics:
Turning points in Hungarian history 1: From the House of Árpád to the Turkish Wars: occupation of the Carpathian basin, founding of the Hungarian Kingdom, St. Stephen, the Turkish wars: Nándorfehérvár. Mohács, Eger, the reoccupation. Study Trip.

Recommended Readings:
Power Point slides will be made available on a weekly basis. The course comes with a REQUIRED printed textbook which will be dealt out in the first class.

Subject: INTRODUCTION TO HUNGARIAN CULTURE 2, INTENSIVE
Year, Semester: 1st year/2nd semester
Seminar: 28
Requirements

Topics:
Orientation: getting acquainted. General discussion. Setting the main targets of the course. Discussing readings and requirements.

Recommended Readings:
The course is supplemented by a textbook/course packet.

Subject: INTRODUCTION TO PROGRAMMING, INTENSIVE
Year, Semester: 1st year/2nd semester
Lecture: 28
Seminar: 28

Requirements

Topics:

Recommended Readings:
1. Adrian Kingsley-Hughes: Beginning Programming, Wiley, 2005