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UNIVERSITY OF DEBRECEN

The history of the University and Debrecen

About Debrecen

With 205,000 inhabitants Debrecen is the second largest city in Hungary and the center of the North Great Plain Region. The Eastern gate of Europe, as Debrecen is often referred to, is also the seat of Hungarian Protestantism, and as such is often called the "Calvinist Rome". The numerous university faculties, colleges and professional schools have turned Debrecen into the country's most important educational center. More recently, the city's main focus is the development of its industrial park, and centers for knowledge management in information technology, nanotechnology, pharmacy and biotechnology. Summer is the time of festivals: thousands of people from other parts of Hungary as well as from abroad visit the famous Debrecen Flower Carnival, the Debrecen Jazz Days, the Béla Bartók International Choir Competition and the International Military Band Festival. The new Conference Center hosts professional and cultural programs. Week by week, many people support the city's most famous sport clubs, especially the football, handball and basketball teams. Those wishing to take a rest are welcome in the Great Forest, where the famous Debrecen Spa Bath and the Mediterranean Aquaticum are located.

Higher education in Debrecen

The history of Debrecen's higher education dates back to the 16th century. The Calvinist Reformed College, established in 1538, played a central role in education, teaching in the native language and spreading Hungarian culture in the region as well as in the whole country. The College was a sound base for the Hungarian Royal University, founded in 1912. Apart from the three academic faculties (arts, law, theology) a new faculty, the faculty of medicine was established, and the University soon became one of the regional citadels of Hungarian higher education.

Today the University of Debrecen is classified as a “University of National Excellence” and offers the highest number of academic programs in the country, hence it is one of the best universities in Hungary. Its reputation is a result of its quality training, research activities and the numerous training programs in different fields of science and engineering in English.

With 14 faculties and a student body of almost 30,000, of which about 3700 are international students, the University of Debrecen is one of the largest institutions of higher education in Hungary.
DEAN’S WELCOME

Thank you for your interest in our university with a great past and in our agricultural higher education with approximately 150 year old traditions.

The University of Debrecen is one of the institutions offering a wide range of courses and research activities in Hungary. As one of the most significant think tanks in the country and the knowledge centre of the region, we seek to provide unprecedented opportunities for our students to gain state-of-the-art knowledge and to carry out significant activities.

With excellent infrastructure and high level education, the Faculty of Agricultural and Food Sciences and Environmental Management ensures excellent facilities for its students. In addition to gaining in-depth modern experience, a wide range of opportunities are available to perform professional and scientific activities beyond the scope of academic studies. After obtaining their certificates in higher education vocational training and BSc diploma courses, our students acquire a thorough practical knowledge, they can continue their studies in MSc training and then the best ones in PH.D. training.

We firmly believe that the variety of trainings and courses we offer are attractive to many students who choose the Faculty of Agricultural and Food Sciences and Environmental Management for academic education.

I wish you every success in your studies and hope to meet you personally in the near future.
THE ORGANIZATIONAL STRUCTURE OF THE UNIVERSITY
RECTOR OF THE UNIVERSITY OF DEBRECEN

COORDINATING CENTER FOR INTERNATIONAL EDUCATION

Faculty of Agricultural and Food Sciences and Environmental Management

Dean: Dr. habil István Komlósi
Address: 4032, Debrecen, Bőszörményi út 138.
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Deans Office

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Anita Adorján
Katalin Dr. Fürjné Rádi

Registrars Department:

Academic Registrar: Dr. Istvánné Kovács
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E-mail: ktunde@agr.unideb.hu

Gizella Guthyné Kerekes
Mónika Pintyéné Bátori
Zsuzsanna Házi
László Lévai
DEPARTMENTS OF THE FACULTY

Institute of Agricultural Chemistry and Soil Science

Head of the Institute: Prof. Dr. habil. János Kátai

Associate professor:
Dr. habil. Imre Vágó
Dr. Andrea Balláné Kovács
Dr. Mária Dr. Micskeiné Csubák

Assistant professor:
Dr. Sándorné Kincses
Dr. Rita Erdeiné Kremper
Dr. Zsolt Sándor

Research assistant:
Dr. Magdolna Tállai

Secretary
Gizella Szász

Institute of Animal Science, Biotechnology and Nature Conservation

Department of Animal Husbandry

Head of the Department: Prof. Dr. István Komlósi

Professor emeritus: Dr. Sándor Mihók

Associate professor:
Dr. Béla Béri
Dr. László Stündl
Dr. Gabriella Novotniné Dankó
Dr. József Prokisch
Dr. Károly Magyar
Assistant professor
Dr. János Posta
Dr. Levente Czeglédi
Dr. Péter Bársony
Dr. Anna Pécsi
Assistant lecturer:
Dr. Nóra Dr. Pálffyné Vass
Technical assistant:
Babka Beáta
Sztrik Attila
Gulyás Gabriella
Secretary:
Károlyné Kiss
Marianna Korcsmárosné Varga
Ágnes Gere
Anikó Nagy
Sándor Boros

**Department of Nature Conservation, Zoology and Game Management**

Head of the Department: Dr. habil. Lajos Juhász

Professor:
Dr. Károly Rédei

Assistant professor:
Dr. Lajos Kozák
Dr. László Szendrei
Dr. Péter Gyüre
Assistant research fellow:
Dr. László Kövér

Technical assistant
Norbert Tóth

**Department of Animal Nutrition and Food Biotechnology**
Head of the Department: Prof. Dr. László Babinszky

Associate professor:
Dr. Csaba Szabó

Senior lecturer.
Dr. Judit Dr. Gálné Remenyik

**Animal Genetics Laboratory**
Head of the Department: Prof. Dr. András Jávor

Professor: Dr. András Kovács

Senior research fellow: Dr. Szilvia Kusza

Assistant lecturer: Zsófia Dr. Rózsáné Dr. Várszegi

**Institute of Food Science**
Head of the Institute: Prof. Dr. Béla Róbert Kovács

Professor:
Dr. Béla Róbert Kovács

Dr. János Csapó

Associate professor:
Dr. Erzsébet Karaffa

Dr. Péter Sipos

Assistant professor:
Dr. Ferenc Árpád Peles
Dr. Nikolett Czipa
Assistant lecturer:
Dr. Diána Ungai
Dávid Andrási
Technical assistant:
Andrea Tóthné Bogárdi
Éva Bacskaíné Bódi
Secretary:
Tünde Simon

Institute for Land Utilisation, Technology and Regional Development

Head of the Institute: Dr. János Nagy, DSc

Professor:
Dr. Béla Baranyi, DSc
Dr. Gyula Horváth

Associate professor:
Dr. Zoltán Hagymássy
Dr. Endre Harsányi
Dr. Tamás Rátonyi

Assistant professor:
Dr. Adrienn Széles
Dr. András Vántus
Dr. Andorkó Imre
Senior research fellow:
Dr. Attila Csaba Dobos

Secretary:
Zsuzsanna Dorogi
Sándorné Széles

Institute of Horticulture

Head of the Institute: Prof. Dr. habil. Imre Holb
Associate professor: Dr. habil Mária Takácsné Hájos
Assistant professor: Dr. Nándor Rakonczás
Assistant lecturer:
Péter Dremák
Ádám Csihon

Assistant research fellow:
Ferenc Abonyi

Secretary: Andrea Gátiné Laskai

Institute of Crop Sciences

Department of Agricultural Botany, Crop Physiology and Biotechnology

Professor: Prof. Dr. Miklós Gábor Fári
Associate professor: Dr. Szilvia Veres
Assistant professor:
Dr. Péter Makleit
Dr. Zsuzsanna Lisztes-Szabó
Dr. Éva Domokosné Szabolcsy

Assistant lecturer:
Szilvia Kovács
Dr. Brigitta Tóth

**Department of Crop Production and Applied Ecology**

Head of the Institute: Prof. Dr. Péter Pepó

Dr. Sárvári Mihály professor emeritus

Associate professor: Dr. József Csajbók

Assistant professor:

Dr. Erika Kurasy

Dr. Lajos Fülöp Dóka

Dr. András Szabó

Assistant lecturer:

Dr. Enikő Vári

Adrienn Novák

Technical assistant:

Oláhné Tóth Ibolya

Laboratory assistant:

Csákyné Faragó Erzsébet

Secretary:

Endréné Szendrei

Gyöngyi Kovács

**Genetics Group**

Dr. Pál Pepó

**Institute of Plant Protection**

Head of the Institute: Dr. habil. György Kövics

Associate professor:

Dr. László Radócz
Dr. András Bozsik
Assistant professor:
Dr. Antal Nagy
Senior research fellow:
Dr. Gábor Tarcali
Secretary: Tünde Szabóné Asbolt

Central Laboratory:
Associate professor:
Dr. habil. Tünde Pusztahelyi
Assistant research fellow:
Nóra Óri
Technical assistants:
Nóra Bessenyiné Tarpay
Mrs. István Sőrés
Hajnalka Pákozdi
Mrs. Gábor Tóth
Csaba Kiss

Institute of Water and Environmental Management
Head of the Institute: Prof. Dr. Habil János Tamás
Deputy Head of the Institute: Dr. Habil Csaba Juhász
Professor:
Dr. János Tamás
Dr. Lajos Blaskó
Associate professor:
Dr. Csaba Juhász
Dr. Elza Kovács

Assistant professor:
Dr. Attila Nagy
Dr. Csaba Pregun
Senior research fellow: Dr. József Zsembeli

Assistant lecturer:
Dr. Lili Mézes
Dr. Tünde Fórián
Dr. Ildikó Gombosné Nagy
Assistant research fellow:
Nikolett Szöllősi
Péter Riczu

Technical assistant:
Katalin Böfkő
András Kaszás Tóth
Kamilla Berényi-Katona

Secretary:
Zsuzsanna Szathmáriné Pongor
Lászlóné Huszka Imre
## UNIVERSITY CALENDAR

**Academic year 2015/2016**

<table>
<thead>
<tr>
<th>academic year</th>
<th>course/time</th>
<th>examination period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration week</td>
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**BSc**

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<td>1st year</td>
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<tr>
<td>2nd year</td>
<td></td>
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</tr>
<tr>
<td>3rd year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>practise period</td>
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**MSc**

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<table>
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<tbody>
<tr>
<td>1st semester</td>
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<td>1st year</td>
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<tr>
<td>1st year</td>
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<tr>
<td>2nd year</td>
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</table>
AGRICULTURE ENGINEERING MSc PROGRAMME

About the course:

The MSc in Agricultural Engineering is designed to develop your undergraduate knowledge and improve it through application and research. The field of Agricultural Engineering is broad and the programme reflects this diversity, with emphasis on Applied Biochemistry, Applied Plant Physiology, Applied Genetics and Biotechnology, Applied Soil Science, Production Physiology, Nutrient Management are the key research areas of the Faculty. Throughout your stay at Debrecen University, which is the second largest university in Hungary, with 30000 students, as a postgraduate student of Agricultural Engineering, you will have a personal academic tutor to guide you through your studies and to meet your individual goals and interests. We offer you a 4 week field practice in summer.

Requirements:

Application requirements: BSc degree or higher in Agricultural Science. BSc degree or higher in a biologically-related degree. Other approved accreditation or professional qualification. Upper-intermediate English language certificate.

Length of the Study programme: Two year full-time taught programme plus dissertation. presently no part-time options are available.

Number of ECTS credits: 120

The course consists of lectures and seminars. Attendance at lectures is recommended, but not compulsory. Participation at practice classes is compulsory. A student must attend the practice classes and may not miss more than three times during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. A student can’t make up a practice class with another group. The attendance at practice classes will be recorded by the practice leader. Being late is equivalent with an absence. In case of further absences, a medical certificate needs to be presented. Missed practices should be made up for at a later date, being discussed with the tutor. Active participation is evaluated by the teacher in every class. If a student’s behavior or conduct doesn’t meet the requirements of active participation, the teacher may evaluate his/her participation as an absence because of the lack of active participation in class.

The knowledge of the students will be tested several times depending on the class types during the entire course. The training ends in a Final Exam (FE) of the whole semester material and a minimum of four FE dates will be set during the examination period. Unsuccessful students may repeat

During the semester there are two tests: the mid-term test in the 8th week and the end-term test in the 15th week. Students have to sit for the tests.

Tests are evaluated according to the followings:

<table>
<thead>
<tr>
<th>Score</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-59</td>
<td>fail (1)</td>
</tr>
<tr>
<td>60-69</td>
<td>pass (2)</td>
</tr>
</tbody>
</table>
70-79    satisfactory (3)
80-89    good (4)
90-100   excellent (5)

Absence for any reason counts as 0%.

If the score of any test is below 60, the student can take a retake test in conformity with the EDUCATION AND EXAMINATION RULES AND REGULATIONS.

An offered grade: It may be offered for the students if the average of the mid-term and end-term tests is at least good (4). The offered grade is the average of them.

**Careers:**

Postgraduates may progress to a PhD or find employment in agricultural science research, crop science research, lecturing, consultancy or other science based sectors of crop production, animal husbandry, and agriculture or food industry. Our faculty has a good relationship with agricultural enterprises of the region.
### CURRICULUM OF THE FULL TIME PROGRAMME

The distribution of contact hours by semester and course  
(Agricultural engineering MSc, in English)

<table>
<thead>
<tr>
<th>Courses</th>
<th>Contact Hours</th>
<th>Course Instructor</th>
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<tbody>
<tr>
<td>MTMAME001 Applied biochemistry</td>
<td></td>
<td>Balláné Dr. Kovács Andrea / Kincses Sándorné dr.</td>
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<tr>
<td>MTMAME003 Applied genetics and biotechnology</td>
<td></td>
<td>Dr. Pepó Pál</td>
</tr>
<tr>
<td>MTMAME002 Applied plant physiology</td>
<td></td>
<td>Dr. Lévai László / Dr. Veres Szilvia</td>
</tr>
<tr>
<td>MTMAME004 Applied soil science</td>
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<td>Dr. Kátai János</td>
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<tr>
<td>MTMAME006 Plant nutrition management</td>
<td></td>
<td>Dr. Sárvári Mihály</td>
</tr>
<tr>
<td>MTMAME005 Production physiology</td>
<td></td>
<td>Novotniné Dr. Dankó Gabriella</td>
</tr>
<tr>
<td>MTMAME026 Population genetics</td>
<td></td>
<td>Dr. Pepó Pál</td>
</tr>
<tr>
<td>MTMAME027 Soil ecology</td>
<td></td>
<td>Dr. Kátai János</td>
</tr>
<tr>
<td>MTMAME008 Animal nutrition</td>
<td></td>
<td>Dr. Bársny Péter</td>
</tr>
<tr>
<td>MTMAME045 Intercultural communication</td>
<td></td>
<td>Dr. Silye Magdolna</td>
</tr>
<tr>
<td>MTMAME046 Intercultural communication skill</td>
<td></td>
<td>Dr. Troy Wiwczaroski</td>
</tr>
<tr>
<td>MTMAME029 Alternative land use</td>
<td></td>
<td>Dr. Dobos Attila / Dr. Csajbók József</td>
</tr>
<tr>
<td>MTMAME028 Feedstuffs and feed processing</td>
<td></td>
<td>Dr. Nagy János</td>
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<tr>
<td>MTMAME009 Integrated crop production I.</td>
<td></td>
<td>Dr. Básny Péter</td>
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<tr>
<td>MTMAME010 Animal husbandry I.</td>
<td></td>
<td>Dr. Komlósi István</td>
</tr>
<tr>
<td>MTMAME011 Soil cultivation and land development</td>
<td></td>
<td>Dr. Nagy János</td>
</tr>
<tr>
<td>MTMAME012 Horticulture</td>
<td></td>
<td>Dr. Holb Imre</td>
</tr>
<tr>
<td>MTMAME047 Academic language skill I.</td>
<td></td>
<td>Dr. Silye Magdolna</td>
</tr>
<tr>
<td>MTMAME048 Professional language skill I.</td>
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<td>Dr. Troy Wiwczaroski</td>
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<tr>
<td>MTMAME034 Goat breeding</td>
<td></td>
<td>Dr. Jávor András</td>
</tr>
<tr>
<td>MTMAME035 Medical and spice crops production</td>
<td></td>
<td>Dr. Kutasy Erika</td>
</tr>
<tr>
<td>MTMAME051 Thesis project work I.</td>
<td></td>
<td>Dr. Juhász Csaba / Dr. Tamás János</td>
</tr>
<tr>
<td>MTMAME030 Alternative crop production strategies</td>
<td></td>
<td>Dr. Pepó Péter</td>
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<tr>
<td>MTMAME031 Animal keeping technologies</td>
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<td>Dr. Czeglédi Levente</td>
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<tr>
<td>MTMAME014 Animal husbandry II.</td>
<td></td>
<td>Dr. Jávor András</td>
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<tr>
<td>MTMAME020 Communication</td>
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<td>Dr. Juhász Csilla</td>
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<tr>
<td>MTMAME015 Environment and land use</td>
<td></td>
<td>Dr. Juhász Csaba / Dr. Tamás János</td>
</tr>
<tr>
<td>Code</td>
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<td>MTMAME013</td>
<td>Integrated crop production II.</td>
<td>Prime</td>
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<tr>
<td>MTMAME016</td>
<td>Marketing</td>
<td>Prime</td>
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<tr>
<td>MTMAME017</td>
<td>Product quality, crop processing</td>
<td>Prime</td>
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<tr>
<td>MTMAME019</td>
<td>Research methodology</td>
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<td>MTMAME018</td>
<td>Sectoral economy I.</td>
<td>Prime</td>
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<td>MTMAME049</td>
<td>Academic language skill II.</td>
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<td>Professional language skill II.</td>
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<tr>
<td>MTMAME036</td>
<td>Biometrics</td>
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<td>MTMAME039</td>
<td>Etology</td>
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<tr>
<td>MTMAME041</td>
<td>EU knowledge</td>
<td>Elective</td>
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<tr>
<td>MTMAME037</td>
<td>Integrated plan protection</td>
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<td>MTMAME038</td>
<td>Organic farming</td>
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<td>MTMAME040</td>
<td>Project management</td>
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<td>MTMAME052</td>
<td>Thesis project work II</td>
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<tr>
<td>MTMAME033</td>
<td>Animal husbandry politics</td>
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<td>MTMAME032</td>
<td>Regional farming</td>
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<td>MTMAME022</td>
<td>Animal husbandry III.</td>
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<td>MTMAME021</td>
<td>Integrated crop production III.</td>
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<td>MTMAME025</td>
<td>Management</td>
<td>Prime</td>
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<td>MTMAME024</td>
<td>Quality assurance</td>
<td>Prime</td>
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<tr>
<td>MTMAME023</td>
<td>Sectoral economy II.</td>
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<tr>
<td>MTMAME042</td>
<td>Animal breeding</td>
<td>Elective</td>
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<tr>
<td>MTMAME044</td>
<td>Extension in crop production</td>
<td>Elective</td>
</tr>
<tr>
<td>MTMAME043</td>
<td>Milk and meat processing</td>
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<tr>
<td>MTMAME053</td>
<td>Thesis project work III</td>
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<tr>
<td>MTMAME054</td>
<td>Precision agriculture</td>
<td>Elective</td>
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<tr>
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<td>Water management</td>
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<td>MTMAME056</td>
<td>Technical knowledge</td>
<td>Elective</td>
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<td>MTMAME057</td>
<td>Agricultural economics I.</td>
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<tr>
<td>MTMAME058</td>
<td>Agricultural economics II.</td>
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<tr>
<td>MTMAME059</td>
<td>Fisheries and aquaculture</td>
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<tr>
<td>MTMAME060</td>
<td>Agricultural water management based on soil science</td>
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<tr>
<td>MTMAME061</td>
<td>Agroinformatics</td>
<td>Elective</td>
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</table>

Abbreviations:
cr.: credit, ex.: exam, lec.: lecture, pr.: practical, T: assessed by final exam, P: assessed by semester performance
<table>
<thead>
<tr>
<th>Semester</th>
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COURSE DESCRIPTIONS

FOUNDATION PRIME COURSE

**Applied Biochemistry**

**Number of classes/week:** 2+1 T

**Course credits:** 3

**Course instructor:** Dr Andrea Kovács-Balla

**Condition of enrolment for the course:** experience in organic chemistry

**Short course description:**


**Compulsory/ Recommended literature, readings (in English):**


Applied plant physiology

Number of classes/week: 1+1 T

Course credits: 3

Course instructor: Dr. László Léval

Condition of enrolment for the course: -

Short course description:
During the time of course students receive scientific information about the topic of plant physiology: photosynthesis, respiration, water management, minerals assimilation, nitrogen metabolism, bioregulators, seed germination, plant development, flowering, fruit formation and ageing. Both of basic knowledge and practical application will received by the instructor during the course. Moreover students learn about the influence of environmental factors to the vital processes and stress physiology also.

Compulsory/ Recommended literature, readings:

- Plant Physiology fourth edition ONLINE (http://4e.plantphys.net/) ed. by Lincoln Taiz and Eduardo Zeiger
- Handbook of Plant and Crop Stress ed. by M. Pessarakli, Marcel Dekker Inc. 1999
**Applied plant genetics and biotechnology**

**Course instructor:** Dr. Pál Pepó

**Number of classes/week:** 2+1 T

**Course credits:** 3

**Short course description:**

The main objective of the course is to provide a theoretical and practical introduction to the scientific principles of plant genetics, biotechnology. Applied plant molecular genetics and biotechnology including the hormonal and developmental regulation of gene expression, in vitro and tissue culture techniques, and transformation strategies. Marker-assisted breeding, risk assessment for Genetically Modified Organisms, Genetically Modified Organism certification protocols and Arabidopsis genetics. Genetic transformation in crop, Genetic transformation by particle bombardment In vitro regeneration and genetic transformation Microprojectile-mediated Agrobacterium-mediated transformation. Regeneration and genetic transformation. In vitro and recombinant DNA technologies for the improvement of grain, in vitro morphogenesis, biotic and abiotic stress tolerance, genomics, nitrogen fixation and utilization, nutritional improvement, and biodiversity in vitro regeneration and genetic transformation expression and stability of transgenes modification of traits in almost all the important crops area. Molecular players in nitrogen use efficiency, DNA markers and molecular plant breeding, genetics of plant defense signaling and genetic engineering of crop plant. Describe important techniques in molecular breeding. Genetics of molecular markers in plants. Molecular breeding for drought tolerance. Plant diseases and resistance. Tolerance to abiotic stresses. Tissue culture and other in vitro techniques.

**Compulsory/recommended readings:**


Applied Soil Sciences

Number of classes/week: 2+1 T
Course credits: 3
Course instructor: Dr. János Kátai
Condition of enrolment for the course: -

Short course description:
First of all varied functions of soil have been introduced. Physical and chemical features of soil and correlations among them have been summarized. Biological processes in soil have been presented. Other important points of the course are soil biodiversity, effects of ecological parameters and soil features on soil fertility. Favourable and unfavourable influences of applied technological methods from the point of environmental protection have been emphasized. Nutrient management in the precision agriculture, soil degradation processes and possibilities of their improving, soil information system, principles of soil protection strategy in EU are important topics of the course.

Compulsory/ Recommended literature, readings:
Production physiology

Course instructor: Dr. Gabriella Novotni-Dankó PhD

Number of classes/week: 1+0 T

Course credits: 2

Condition of enrolment for the course: -

Short course description:


Compulsory/Recommended literature, readings (in English)


William O.Reece: Physiology of Domestic Animals


**Plant nutrition management**

**Number of classes/week:** 1+1 T  
**Course credits:** 2  
**Course instructor:** Dr. Mihály Sárvári  
**Condition of enrolment for the course:** -

**Short course description:**

Macro, mezo and micro elements fertilization. Correlation between crop productivity and the level of supply.  
Role of different tillage systems in nutrition management. Protecting of soil fertility in conventional systems. Principles and methods of nutrient balance. Principles and methods of field experiments

**Compulsory/ Recommended literature, readings:**

Crop production booklets I-VIII (university books)
**Irrigated farming**

**Number of classes/week:** 1+1 T

**Course credits:** 2

**Course instructor:** Dr. József Csajbók

**Condition of enrolment for the course:** -

**Short course description:**


**Compulsory/ Recommended literature, readings:**


PRIME COURSES

Course title: Animal nutrition

Number of classes/week: 1+1 T

Course credits: 3

Course instructor: Dr. Péter Bársony

Condition of enrolment for course: -

Short description course:
Feedings possibilities to modify of composition, quality and safety of meat of several animal species as animal origin foods
Feedings possibilities to modify of composition, quality and safety of eggs of several poultry species as animal origin foods
Feedings possibilities to modify of composition, quality and safety of milk of several animal species as animal origin foods
Processing of feeds in the interest to increasing efficiency of nutrient transformation
Nutrigenomics as a new method in the nutrition

Compulsory literature:

Curriculum of lectures

Recommended literature:
Hungarian and international publications of this subject
Hungarian Animal Production (Állattenyésztés és Takarmányozás) Budapest
Acta Alimentaria, Budapest
**Integrated crop production I.**

**Number of classes/week:** 2+1 T  
**Course credits:** 3  
**Course instructor:** Dr. Peter Pepó  
**Condition of enrolment for the course:** -

**Short course description:**


**Compulsary literatures:**


**Advised literatures:**

**Animal husbandry I.**

**Course instructor:** Dr. Levente Czeglédi PhD

**Lectures (in a week):** 2+1 T

**Credit:** 3

**Condition of enrolment for the course:** -

**Short course description:**


**Compulsory/ Recommended literature, readings:**


Lectures and scientific papers
Soil cultivation and land development

Number of classes/week: 1+1 T

Course credits: 2

Course instructor: Dr. János Nagy

Condition of enrolment for the course: Applied soil science, Plant nutrition management

Short course description:

Students acquire the knowledge needed for the maintenance and improvement of soil fertility and the rational utilisation of energy that can be connected into land use by means of the soil. They also have to be able to practically apply the processes and methods that improve soil fertility.

Compulsory/ Recommended literature, readings:


Horticulture

Number of classes/week: 1+2 T  
Course credits: 2  
Course instructor: Dr. Imre Holb  
Condition of enrolment for the course: -

Short course description:

Definition and importance of horticulture. Production and economic situation of horticulture in Hungary and all over the world. Braches of horticulture: including the disciplines of fruit and grape production, vegetable growing, ornamental production. Fundamentals of fruit production technology, Introduction to grape and wine production and basics of production technological elements, Basics of vegetable growing, Clastering ornamental plants, basic ornamental production technology.

Compulsory/ Recommended literature, readings:

N. Rai and D.S. Yadav 2005 Advances in Vegetable Production 995 p  
**Integrated crop production II.**

**Number of classes/week:** 2+1 T

**Course credits:** 3

**Course instructor:** Dr. Peter Pepó

**Condition of enrolment for the course:** -

**Short course description:**


**Compulsary literatures:**


**Advised literatures:**


Milkha Aulakh., Cyntia A. Grant: Integrated Nutrient Management for Sustainable Crop Production. CRC Press. 2008
Animal husbandry II.

Number of classes/week: 2+1 T

Course credits: 3

Course instructor: Dr. András Jávor

Condition of enrolment for the course: -


Compulsory/ Recommended literature, readings:

Environmental and landscape management

Number of classes/week: 1+1 T

Course credits: 2

Course director: Prof. János Tamás

Condition of enrolment for the course: -

Short course description:

The main aim of the course is to get the basic knowledge of environmental management and agri-environmental protection and beside this is to get the learning of theoretical and practical landscape management. Moreover, the goal is to use this knowledge readiness in the agricultural engineer practices. The development of the environment protection and environmental management. Natural resources and its types: the continual, the non renewable and the renewable resources. The concept and filch of the environment, the sources, reasons and forms of the environment pollution. The pollution of the air, and the protection against that pollution. The contamination and degradation of the soil: pollution and pollutants of the soil. Water quality, water quality defense. Water administration. Waste management: the concept, types, sources and effects of the waste. International and Hungarian practice of the agricultural environment management. The impacts of the agricultural production on the environment: effects of the crop production and animal breeding. Environmental Impact Assessment. The environmental state of Hungary: the state of the air, the water and the soil. State of the settlement environment. Basis of the landscape management. The concept of landscape. Relations between men and landscape. Landscape protection and planning. Estate and magnitude of the natural environment. Landscape as a natural system. Conventional farming systems. Landscape management strategies. Role of the ecological farming systems in the sustainable landscape management. Crop production and landscape management. Methods of the ecological farming, typical perspectives. Animal breeding and landscape management.

Compulsory/Recommended literature, readings:


**Marketing**

**Number of classes/week:** 1+0 T

**Course credits:** 2

**Course instructor:** Dr. Zsolt Csapó

**Condition of enrolment for the course:** -

**Short course description:**

The main aim the course is to make students capable to understand the basics of marketing, marketing concepts and practical implementation of the theoretical knowledge. Main topics of the course are as follows: basics of marketing, market segmentation, positioning, consumer behaviour, product policy, pricing policy, channel policy and promotion.

**Compulsory/ Recommended literature, readings:**


**Product quality, crop processing**

**Number of classes/week:** 1+1 T

**Course credits:** 2

**Course instructor:** Dr. Zoltán Győri

**Condition of enrolment for the course:** -

Knowledge in plant husbandry, horticultural production, plant genetics, plant nutrition and biochemistry

**Short course description:**


**Compulsory/ Recommended literature, readings:**


Olson, R. A. – Frey, K. J. (1990): Nutritional quality of Cereal Greins, ASA, CSSA


Sectoral economy I.

Number of classes/week: 2+1, T

Course credits: 3

Course instructor: Dr. András Nábrádi

Condition of enrolment for the course: -

Short course description:


Compulsory/ Recommended literature, readings (in English):


Research methodology

Number of classes/week: 2+1 T

Course credits: 2

Course instructor: Dr. József Csajbók

Condition of enrolment for the course: -

Short course description:

Basic definitions of experiments. In vitro, in vivo experiments, field experiments. Experimental methods, planning field experiments. The aims of the field experiments, factors, variables, plots, treatments, repetitions. The accuracy of the experiment data, the determinant factors, homogeneity. Estimating the experimental error, and the difference between the treatments. Real and hidden replications. Computing the required repetition number. Design variations of single and multi factor experiments, randomization.

Compulsory/ Recommended literature, readings:

Dr. Jánossy A. – Muraközy T. – Aradszky G-né (1966): Biometriai értelmező szótár, Mezőgazdasági Kiadó, Budapest
Communication

Number of classes/week: 1+1 T

Course credits: 2

Course instructor: Dr. Csilla Juhász

Condition of enrolment for the course: -

Short course description:

Compulsory/ Recommended literature, readings (in English):
John Fiske: Introduction to communication studies New York : Routledge, 1991
Phillip G. Clampitt: Communicating for Managerial Effectiveness. SAGE Publications, 2004
**Integrated crop production III.**

**Number of classes/week:** 2+1 T

**Course credits:** 3

**Course instructor:** Dr. Peter Pepó

**Condition of enrolment for the course:** -

**Short course description:**


**Compulsory literatures:**


**Advised literatures:**


Milkha Aulakh., Cyntia A. Grant: Integrated Nutrient Management for Sustainable Crop Production. CRC Press. 2008
Animal husbandry III.

Course instructor: Dr. Levente Czeglédi PhD

Lectures (in a week): 2+1 T

Credit: 3

Condition of enrolment for the course: -

Short course description:

Compulsory/ Recommended literature, readings:


Lectures and scientific papers
**Sectoral economy II.**

**Number of classes/week:** 2+1, T

**Course credits:** 3

**Course instructor:** Dr. András Nábrádi

**Condition of enrolment for the course:** -

**Short course description:**


**Compulsory/ Recommended literature, readings (in English):**


**Quality assurance**

**Number of classes/week:** 2+1 T

**Course credits:** 3

**Course instructor:** Dr. Zoltán Győri

**Condition of enrolment for the course:**

Horticultural, plant husbandry, animal husbandry, management, Product quality, crop processing.

**Short course description:**


**Compulsory/ Recommended literature, readings:**

Management

Number of classes/week: 2+1 T

Course credits: 3

Course instructor: Dr. Csaba Berde

Condition of enrolment for the course: -

Short course description:

Introduce MSc students to the history, development, most important schools, trends and theories of management science. Beside we aim to present most important relations, managerial methods and procedures. Main topics: development of management, managerial schools, trends, group management, organizational development, organizational culture, change management, motivation, conflict management, managerial method, managerial style, innovation management.

Compulsory/ Recommended literature, readings:

Management Science Journal, University of Pennsylvania, USA


Lectures and scientific papers.
DISCIPLINARY COURSES

Population genetics

Number of classes/week: 1+1 T

Course credits: 3

Course instructor: Dr. Pál Pepó

Condition of enrolment for the course: -

Short course description:

This course will serve as an introduction into the field of population genetics. Of primary importance is an understanding Mendel’s laws and other genetic principals as they affect entire populations of organisms. Moreover, this class will focus on how to estimate population parameters that are important descriptors of genetic variation. These concepts will necessarily be based on genetic models and require a quantitative approach to genetics. Overall, the aim of this class is to enable you to apply insights gained from classic and modern genetic techniques to understand how genetic variation is produced, maintained, and distributed within and among populations.

Compulsory/ Recommended literature, readings:


**Soil Ecology**

**Number of classes/week:** 1+1 T

**Course credits:** 3

**Course instructor:** Dr. János Kátai

**Condition of enrolment for the course:** -

**Short course description:**


**Compulsory/ Recommended literature, readings:**


Feedstuffs and feed preparation and processing

Number of classes/week: 1+1 T

Course credits: 3

Course instructor: Dr. Péter Bársony

Condition of enrolment for course:

Short course description:

Knowledge of methods to improvement of feedstuffs by feed processing in connection with the practical animal feeding. To solve problems based on former acquired knowledge in the field of animal nutrition and feeding, and on the different basic sciences. Food safety risks of feeds and feeding. Feeds and feeding on the production of functional foods.

Compulsory literature:


Curriculum of lectures

Recommended literature:


Hungarian and international publications of this subject

Hungarian Animal Production (Állattenyésztés és Takarmányozás) Budapest
Acta Alimentaria, Budapest
**Alternative land use**

**Number of classes/week:** 1+1 T

**Course credits:** 3

**Course instructor:** Dr. János Nagy

**Condition of enrolment for the course:** Applied soil science, Plant nutrition management

**Short course description:**
Providing land use knowledge supplementing the body of basic natural science, forming the approach of students. They have to be able to effectively utilise natural, artificial and social resources provided for crop production and to protect the balance of the natural environment by planning land use methods.

**Compulsory/ Recommended literature, readings:**


Alternative crop strategies

Number of classes/week: 1+1 T

Course credits: 3

Course instructor: Dr. Péter Pepó

Condition of enrolment for the course: -

Short course description:


Compulsary literatures:


Advised literatures:

Milkha Aulakh., Cyntia A. Grant: Integrated Nutrient Management for Sustainable Crop Production. CRC Press. 2008
Animal keeping technologies

Course instructor: Dr. Levente Czeglédi PhD

Lectures (in a week): 1+1 T

Credit: 3

Condition of enrolment for the course: -

Short course description:

Animal keeping technologies of poultry, sheep, horse, pig, cattle. Determination of special requirements about environmental conditions (area, comfort, temperature, humidity) of species and aim of production. Differences on animal requirements at different biological status and age of animal.

Technologies at extensive and intensive animal productions. Technologies at different production levels. Technologies at a farm and a large industry-like system.

Evaluation of animal keeping technologies at the point of view of production level, profitability, adaptability of animal.

Compulsory/ Recommended literature, readings:


Lectures and scientific papers
**Regional farming**

**Number of classes/week:** 1+1 T

**Course credits:** 3

**Course instructor:** Dr. József Csajbók

**Condition of enrolment for the course:** -

**Short course description:**

Learning of such professional knowledge, which makes possible the effective, economical crop production, adapting to the site region. Agroecological regions. Adapting to the region and the site. Possibilities, conditions to improve the site circumstances. To develop the species and variety structure adapting to regional production. Role and possibilities of nutrient management, land cultivation, soil protection, crop protection in regional production.

**Compulsory/ Recommended literature, readings:**

Animal husbandry politics

Number of classes/week: 1+1 T

Course credits: 3

Course instructor: Dr. András Jávor

Condition of enrolment for the course: -

Short course description:


Compulsory/ Recommended literature, readings:

Current laws, regulations and statistics Studies about the field

ELECTIVE COURSES

Goat breeding

Number of classes/week: 1+0 T

Course credits: 2

Course instructor: Dr. András Jávor

Condition of enrolment for the course: -

Short course description:


Compulsory/ Recommended literature, readings:

Medical and spice crops production

Number of classes/week: 1+0 T

Course credits: 2

Course instructor: Dr. Erika Kutasy

Condition of enrolment for the course: -

Short course description:

Giving thematic and complex informations about the ecological conditions, production technology, storing and processing medical and aromatic plants. Medicine and aromatic plant production in Hungary and in the world. Agroecological conditions of production of medical and spice crops. Biological basis of medical and spice crops farming. General and specific questions of production technology of medicine and aromatic plants. Breeding of medicine and aromatic plants. Drying, storing of medical and aromatic crops, extraction of active agents. Studying general and specific questions of production of medicine and aromatic plants. Knowing and applying the production technology and quality requirements.

Compulsory/ Recommended literature, readings:

Compulsory literature:
Karin Kraft/Christopher Hobbs: Pocket Guide to Herbal Medicine, 2004
Rudolph Fritz Weiss/Volker Fintelmann: Herbal Medicine, 2000

Recommended literature:
Herbal Medicine Expanded Commission E Monographs, American Botanical Council, 2000
Biometrics

Number of classes/week: 1+1 T

Course credits: 3

Course instructor: Dr. József Csajbók

Condition of enrolment for the course: -

Short course description:


Compulsory/ Recommended literature, readings:


SPSS Statistics 17.0 Brief Guide SPSS Inc. (2007)

**Integrated Plant Protection**

**Number of classes/week:** 1 lecture + 1 practical, T

**Course credits:** 3

**Course instructor:** Dr. Imre Holb

**Condition of enrolment for the course:** -

**Short course description:**

Definition of integrated plant protection and relation to sustainable agriculture; detailed description of the elements of integrated control methods against diseases, pests and weeds; mechanical, physiocal, biological, biotechnological and chemical control options in integrated plant protection; integrated plant protection law and regulates; modern decision support systems in integrated plant protection; integrated plant protection in arable crops; integrated plant protection in fruit and vegetables; extension and design plant protection technology in farms.

**Compulsory/ Recommended literature, readings:**


Organic farming

Number of classes/week: 1+1 T

Course credits: 3

Course instructor: Dr. Erika Kutasy

Condition of enrolment for the course: -

Short course description:

Studying environmental, chemical free crop production technology.

Learning theoretical and practical aspects of the elements of production technology. Development of the conventional crop production.

Unfavourable environmental effects and their evaluation in the conventional crop production.

Biological and ecological conditions of crop production.

General and specific questions of organic farming.

Practical production technology of some important crops in the organic farming.

Knowing the possibilities and methods changing into the organic farming, the advantages, problems and the real lookouts of organic farming.

Compulsory/ Recommended literature, readings:

Compulsory literature:


Recommended literature:


Etology

Number of classes/week: 1 T

Course credits: 2

Course instructor: Dr. Zsófia Várszegi Dr. Rózsáné

Condition of enrolment for the course: -

Short course description:
We describe the interaction between animal body and environment. We demonstrate the different species-specific behaviours; introduce the individual animal species (sheep, poultry, horses, pigs and cattle) in various types of utilization, including the behavioural patterns of each age group. We talk about environmental factors influencing behaviour and production.

Compulsory/Recommended literature, readings:
**Project management**

Number of classes/week: 1+1, T

Course credits: 3

Course instructor: Dr. András Nábrádi

Condition of enrolment for the course: -

**Short course description:**

The application of modern management techniques and systems to the execution of a project from start to finish, to achieve predetermined.., internal and external analysis, swot matrix, problem tree, objectives tree, log frame matrix, gnatt diagram, controlling of achieved results. Managing project.

**Compulsory/ Recommended literature, readings (in English):**


**EU knowledge**

**Number of classes/week:** 1 lecture +1 practical class T

**Course credits:** 3

**Course instructor:** Dr. Judit Kovács-Katona

**Condition of enrolment for the course:** -

**Short course description:**

The aim of the subject is to give the students a clear view how the European works, how can the students be more involved in the development of the integration as members of this Union. The curriculum contains the following topics: market integration in the EU; the institution structure; budget of the EU; community decision-making and legislation; the economic and monetary union; the common agricultural policy. Practical classes will give place for students to own work, where they have to present Hungarian examples how they meet with the results of the Hungarian membership.

**Compulsory/ Recommended literature, readings:**


The webpage of the European Union: http://europa.eu
Animal Breeding

Number of classes/week: 1 + 1 T

Course credits: 2

Course instructor: Dr. István Komlósi

Condition of enrolment for the course: -

Short course description:

Organisation of breeding in the European Union and other countries with developed breeding. Laws and regulations at international level. The development of animal breeding structure during the history. The role of ministry and other public organisations in. Recognised breeding associations in different species, breeds. Breeding programmes. Breeding value evaluation in different species. Performance recording and registration in different species. Institutions, firms, associations linked to the breeding industry.

Compulsory/ Recommended literature, readings:

Performance Codexes of different species
Relevant EU regulations and laws
**Milk and meat processing**

Number of classes/week: 1+1 T

Course credits: 2

Course instructor: Dr. András Jávor

Condition of enrolment for the course: -


**Compulsory/ Recommended literature, readings:**


**Extension in crop production**

**Number of classes/week:** 1+1 T

**Course credits:** 2

**Course instructor:** Dr. József Csajbók

**Condition of enrolment for the course:** -

**Short course description:**

The main goal of the subject is to give information about the structure and working of the agricultural extension system in Hungary, especially its connecting points to the crop production. Basic knowledge to the effective utilization the extension system that helps improving the production methods and to select the environmental and effective crop cultivation operations.

**Compulsory/ Recommended literature, readings:**


FOREIGN LANGUAGE COURSES

Intercultural communication (lecture)

Number of classes/week: 2
Course credits: 2
Course instructor: Dr. Magdolna Silye

Condition of enrolment for the course:-

Short course description:
To help them to be aware of the national and international cultures and values around, the students learn about cultural stereotypes and realities, national reputations in business and otherwise, as well as cultural values and the respect for them.

The effects of globalization and localization, and the conflicts arising thereof are also taken into consideration. Multiculturalism, its successes and failures. Cultural identity and global conflicts, ethics and related conflicts are also discussed.

Compulsory/ Recommended literature, readings:
**Intercultural communication**

**Number of classes/week:** 2

**Course credits:** 2

**Course instructor:** Dr. Troy B. Wiwczaroski

**Condition of enrolment for the course:** intermediate English language level

**Short course description:**

This course introduces students to the problems of culture and interculturality, as well as cultural and ethnic conflict areas and stereotypes to be avoided, when conducting professional business activities. Additionally, there is the question of identity and the problem of national identity vs. otherness. Other areas of study include globalization, non-verbal communication and business etiquette.

**Compulsory/ Recommended literature, readings:**


**Academic language skills I.**

**Number of classes/week:** 2

**Course credits:** 2

**Course instructor:** Dr. Magdolna Silye

**Condition of enrolment for the course:**

**Short course description:**

The pedagogical goals of the subject are to equip students with the essential receptive skills of reading and understanding high standard technical texts and to prepare them to be able to acquire subject knowledge and read scientific literature in English.

**Compulsory/Recommended literature, readings:**


**Professional Language Skills I.**

Number of classes/week: 2

Course credits: 2

Course instructor: Dr. Troy B. Wiwczaroski

Condition of enrolment for the course: intermediate English language level

**Short course description:**

This course introduces students to the norms and expectations of professional presentation styles in the following areas: company introduction, product description and sales, convincing an audience to accept change and how to give a presentation in a team. Rhetorical methods, use of technologies and argumentation systems, as well as logic, are incorporated into the course.

**Compulsory/ Recommended literature, readings:**


Wiwczaroski, Troy B.: Lecture notes.
Academic Language Skills II.
Number of classes/week: 2

Course credits: 2

Course instructor: Dr. Troy B. Wiwczaroski

Condition of enrolment for the course: intermediate English language level

Short course description:
This course introduces students to the mechanics of more formal academic writing. Organization, tone, stylistics, thesis statements, proper methods of citation and documentation are included for such types of writing as: abstracts, paraphrasing, summarizing, lab report writing and basic grant writing skills.

Compulsory/Recommended literature, readings:

Wiwczaroski, Troy B. Lecture notes.
**Professional Language Skills II.**

**Number of classes/week:** 2

**Course credits:** 2

**Course instructor:** Dr. Troy B. Wiwczaroski

**Condition of enrolment for the course:** intermediate English language level

**Short course description:**
Written correspondance, report writing, case study preparation for use in a business setting, as well as an introduction to the problems of business negotiation are all the *foci* of this course.

**Compulsory/ Recommended literature, readings:**
Wiwczaroski, Troy B. Lecture notes.