Doctoral School programme of the University of Veterinary Medicine Budapest, from academic year 2017-18

As of September 2016, the Hungarian Higher Education Act modified the training period of doctoral schools from six semesters to eight semesters and divided the programme into two stages. The first four semesters form the "study and research" stage, while the second stage comprises "research and dissertation". At the end of the fourth semester of the doctoral programme, students shall be required to conclude the study and research stage with a comprehensive examination aimed to measure and assess their progress made in study and research. Doctoral students shall submit their doctoral dissertations within three years after the comprehensive examination.

Throughout the 48-month doctoral programme, doctoral students shall conduct their studies and research based on the personalized research plan prepared under the guidance of the thesis supervisor and approved by the council of the Doctoral School of Veterinary Science.

The measurement unit of study requirements is the credit, as defined by the European Credit Transfer System.

Course units are defined as study activities or new knowledge acquisition activities which are characterized by

- a particular number of classes,
- a verification of the attainment of the knowledge and therefore
- correspond to a particular number of credits.

Credits are the measurement units of the study, teaching and research activities performed by doctoral students in order to meet their academic requirements.

1 credit = 30 hours of study, teaching and research activities which may comprise contact classes, preparation for classes, preparation for exams, compilation of written materials, etc.

To get their semester validated, students need to obtain at least: 20 credits.
Students may get a maximum of 40 credits validated in one semester.
Students need to obtain a minimum of 90 credits in their first four semesters.
Students need to obtain a minimum of 240 credits during their 48-month programme.

Doctoral students failing to meet the above requirements are not allowed to continue their studies. If the student obtains more than 30 credits in one semester, the credits may be carried over to the next semester(s).

Credits must be obtained from the following three types of course units.

1. Type "A" = study course unit (study credit). It consists of 3 sub-units:

    - A1= mandatory subjects: fundamental scientific subjects
    - A2= general supplementary subjects,
    - A3= a wide range of optional study activities.

2. Type "B" = research course unit (credit):

"Study through research" under the guidance of the thesis supervisor, while carrying out the research programme detailed in the research plan.

3. Type “C” = teaching course unit (credit):
Teaching activity aimed to attain practice in higher education.

Distribution and validation of credits needed to obtain the degree

As a precondition for attaining their degree, doctoral students are required to obtain the final pre-degree certificate (absolutorium), which can be issued if the student acquired a minimum of 240 credits. In the first four semesters of the programme i.e., in the “study and research stage”, students need to obtain a minimum of 90 credits, which must include 100% of the study credits indicated in their research plan. The first stage of the programme is concluded with a comprehensive exam. In lack of such an exam, doctoral students are not allowed to continue their studies. If the student obtains more than 30 credits in one semester, the credits may be carried over to the next semester(s).

1. **Table No. 1 (DSP Form No. 5)**

Comprehensive credit calculation table with subjects taught in the doctoral (PhD) programme and their respective credit values at the Doctoral School of Veterinary Science

<table>
<tr><th colspan="2">Minimum number of credits required –
Maximum number of credits that can be validated</th><th>Form of reporting</th></tr>
<tr><td>A: study</td><td>≥50</td><td rowspan="6">In the thesis supervisor’s online report
By 31 January in the autumn semester
By 31 July in the spring semester</td></tr>
<tr><td>A1: required mandatory subjects</td><td>30</td></tr>
<tr><td>A2: from supplementary subjects</td><td>5</td></tr>
<tr><td>A3: from the group of other study activities</td><td>12 -20</td></tr>
<tr><td>B: research</td><td>114</td></tr>
<tr><td>C: teaching</td><td>4 – 16</td></tr>
<tr><td rowspan="2">Required - collectible, in total</td><td colspan="2">per semester: 20 – 40
Minimum 90 credits in the first 4 semesters</td></tr>
<tr><td colspan="2">during the 48-month programme: minimum 240</td></tr>
</table>

	PhD	Type "A" course units	Subject coordinator	No. of cl.	cr.
1	A1	Fundamentals of biostatistics and computer-assisted solution of the related tasks	Dr. Jenő Reiczigel	32	4
2	A1	Application-oriented biostatistics in Excel	Zsolt Abonyi-Tóth	16	1.5
3	A1	Graphic design and presentation	Ibolya Bajcsayné Fábián	24	2.5
4	A1	Statistical methods of experimental design and evaluation	Dr. Jenő Reiczigel	24	4
5	A1	Library informatics with distance learning	Katalin Bikádi	20	3
6	A1	Laboratory animal science and animal welfare	Dr. Sándor György Fekete	80	8
7	A1	Experimental design in natural sciences	Dr. János Kiss	24	4
8	A1	Writing a scientific publication	Dr. Erzsébet Hornung	28	3
1	A2	Introduction to pedagogy: fundamentals of communicative didactics	Dr. Marietta Molnár	12	3
2	A2	Design and evaluation of epidemiological studies	Dr. Jenő Reiczigel	24	3
3	A2	Research ethics	Dr. Mária Benkő	10	2
4	A2	Regression models, regression calculation in research	Dr. Jenő Reiczigel	24	3
1	A31	Advanced Excel studies	Dr. Jenő Reiczigel	24	2
2	A31	Bayesian statistical methods	Dr. Andrea Harnos	42	3
3	A31	Bioinformatics	Dr. Tibor Bartha	20	2
4	A31	Culture of eukaryotic cells	Dr. Péter Gálfi	40	4
5	A31	Introduction into human virology	Dr. Mária Takács	30	3
6	A31	Immunohistochemical methods in veterinary histology	Dr. Katalin Halasy and Dr. Bence Rácz	20	2
7	A31	Microbiological biotechnology	Dr. Tamás Bakonyi	16	2
8	A31	Models in population biology	Dr. Szilvia Kövér	30	2
9	A31	Comparative virology	Dr. Balázs Harrach	10	2
10	A31	Redox state and oxidative stress in cellular life	Dr. Péter Gálfi	6	2
11	A31	Computer-assisted modelling	Dr. Szilvia Kövér	45	3
12	A31	The molecular physiology of the cells	Dr. Tibor Bartha	15	1.5
13	A31	Multivariate statistical methods	Dr. Andrea Harnos	42	3

In order to get your activities under codes "A32-A38" validated, you need to submit the following data:

- **name /title,**
- **location,**
- **time and**
- **duration of the activity**.

If the above data are not provided, the system allocates a 0.0 credit value to the activity!

A32 - Subjects of other accredited HUNGARIAN programme:

E.g.: courses of other Doctoral Schools, unannounced courses. Indicate those where you have a certificate of successful completion, issued by the organizer. If you have no such certificate, the credit is: 0.0

The Thesis Supervisor (TS) can propose to validate the original (as defined by the course organizer) or a different credit value.

A33 – Activities completed at other (Hungarian or foreign) research facilities:

with certified participation in contact classes/courses OR detailed description of activity (see also: DIR Section on "Study at another institution"!)

The credit value is suggested by the TS. **Attention: you need to provide the details** to such an extent that enables the DS Head to determine if the suggested credit can be validated, especially if it involves a study at another institution!

A34 - Veterinary training programme "blocks" that are also accredited as PhD subjects, if concluded with a successful exam:

If the programme curriculum includes a "block/subject also accredited as part of a PhD programme" (with allocated credit), and you completed it successfully: 10 classes = 1 credit

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A35 - PASSIVE participation in Hungarian/international conferences:

Title of the conference? When? Where? For how long?

A35 - ACTIVE participation in Hungarian/international conferences:

Presentation or/and poster presentation earn you bonus credits:

Title of the conference? When? Where? For how long? + presentation **title, authors**

Conference day ≥ 6 hours	**A35 = passive: student participates**	**A36 = active: student earns additional points**
Conference participation	0.3 credit / day	+ 0.5 credit / presentation - poster /ACTIVE day
HAS/DSVS annual January meeting		
PhD thesis defence/ habilitation presentations*		
Foreign language event	0.6 credit / day	+ 1 credit / presentation /ACTIVE day

***:** As of 01.09.2011, **only 1 / semester** can be validated

Examples:

A35 *A35*	2-day conference in Hungarian language *Further Training Conference of the Hungarian Veterinary Chamber's (HVC) Budapest Section, Budapest, 5-7 November 2010*	2x0.3=0.6 *0.6*
A36	3-day conference in Hungarian language + presentation on one of the	3x0.3 + 0.5

A36	days *HAS presentation (27-28, January 2011) + The adipose tissue……* *Linda Müller, Eszter Kollár, Julianna Thuróczy*	*1.1*
A35 *A35*	Defence, habilitation, HAS inauguration (indicate name and date!) *HAS inauguration: László Solti, 20 January 2011 Opportunities and limitations of reproductive biotechnology - arguments and counter-arguments*	0.3 *0.3*
A35 *A35*	2-day conference in language other than Hungarian *3rd Central European Forum for Microbiology, Vienna, Austria, 6-8 November 2010.*	2x0.6=1.2 *3 x 0.6=1.8*
A36 *A36*	2-day conference in language other than Hungarian + 1 presentation: *2nd Central European Forum for Microbiology, Keszthely, Hungary, 7-9 October 2009. + Virulence and antimicrobial resistance ……* *Annamária Szmolka, B. Libisch, Judit Pászti, M. Füzi, L. Emődy*	2x0.6 + 1 =2.2 *3 x 0.6 + 1 =2.8*

A37 - External/Farm/Field practicals aimed to acquire laboratory, clinical or other methods THAT ARE RELATED TO THE THESIS RESEARCH:
30 classes = 1 credit
A38 - Other activities for which the TS recommends credits:
30 classes = 1 credit. EXPLAIN!

B = Research course unit

Required minimum during the 48-month programme: **114**

Brief summary (in a few sentences) of the research activity conducted in the given semester:

On average, 570 ± 180 classes, i.e., 19 ± 6 credits can be validated per semester, due to proportional workload distribution. If the student's research requires a different workload distribution, **the TS can explain and certify** it for the Head of the school who may allow it.

C = Teaching course units

Required minimum during the 48-month programme: 4 – maximum: 16

	Maximum number of credits that can be validated during the 48 months
C1 - Holding presentations, seminars, practicals:	0.1 credit/class; 4 classes/week = 60 classes = 6 credit /semester
C2 - Supervising the work of a student writing a paper for the Scientific Students' Associations (SSA) Indicate student's name and academic year! The credit must or may be validated in the semester when the SSA paper was presented to an in-house conference, i.e., in the **autumn** semester of Univet Budapest	10 credits / paper (max. = 1 person)

C3 - Supervising the work of students writing their degree paper: **Indicate the student's name, academic year and specialization!** The credit can be validated in the semester of the defence.	(max. 1 person) ~~From August 1 to August 31, 2008. 6 credits / paper~~ **As of 01.09.2011, 3 credits / paper**
C4 - Methodological education for staff member: Indicate name, method, number of classes!	1 credit = 30 classes. Max. 6 credits
C5 Written evaluation of thesis paper or SSA paper	0.5 credits / paper

C2-C4 title: Throughout the 48 months of the programme, credits can be validated **only** for 1 SSA paper or 1 thesis paper or the education of 1 staff member

C5 title: Credits can be validated for a maximum of 2 papers per semester.