To explore the potential of nature
to improve the quality of life

MSc Animal Sciences
Is this the right programme for me?

René Kwakkel, Programme Director Animal Sciences
Lianne Eertink, Student Coach MSc Animal Sciences
December 14, 2017

www.mas.wur.nl
Why MSc Animal Sciences?

- High quality academic education
- To develop scientific skills
- "why-question" (vs. "how")
- To become a specialist!

*A ‘tailor-made’ thesis-oriented approach!!*

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Domain of the programme

- Molecule, Cell and Organ Functioning
- Adaptation, Health and Welfare
- Genetics and Biodiversity
- Nutrition and Metabolism
- Animal Ecology
- Global & Sustainable Production

**Livestock, fish, companion, zoo and semi-wild animals**
### Outline of the programme

<table>
<thead>
<tr>
<th>Period 1</th>
<th>Period 2</th>
<th>Period 3</th>
<th>Period 4</th>
<th>Period 5</th>
<th>Period 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mix of courses (60 credits)</td>
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</tbody>
</table>

#### Year 2:
- Minor thesis/internship (24 credits)
- Major thesis (36 credits)

- English
- Different methods of teaching
- For MSc graduation: 120 ECTS credits

Internet: ssc.wur.nl/handbook

### Type of courses 1st year

#### Skills courses (max. 12 credits)
Scientific Skills or Academic Consultancy Training

#### Deficiency courses (max. 18 credits)
Deficiency courses e.g. Advanced Statistics, BSc Animal Sciences courses

#### Advanced specialisation courses (≥ 12 credits)
Thesis-preparing courses

#### Optional courses (max. 18 credits)
Free choice within or outside Animal Sciences

Internet: www.ssc.wur.nl/handbook
MSc specialisations

A. Genetics and Biodiversity
B. Nutrition and Metabolism
C. Global and Sustainable Production
D. Adaptation, Health and Welfare
E. Molecule, Cell and Organ Functioning
F. Animal Ecology

Student choice examples (2016-2017)

<table>
<thead>
<tr>
<th>Specialisation</th>
<th>Thesis preparing courses</th>
<th>Thesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Nutrition and Metabolism</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>ADP-30306 Health, Welfare and Management</td>
<td>ADP-80436 Thesis Adaptation Physiology</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>CBI-30306 Human and Veterinary Immunology</td>
<td>CBI-80436 Thesis Cell Biology and Immunology</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>HAP-31306 Development and Healthy aging</td>
<td>HAP-80436 Thesis Human and Animal Physiology</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HAP-30806 Integrated Neuroendocrinology</td>
<td></td>
</tr>
</tbody>
</table>
**International**

*These joint programmes lead to a Double Degree:*

- EURAMA (European MSc Animal Management & Economics; France)
- Double Degree in Animal Breeding & Genetics (Norway, France, Austria)
- Double Degree in Animal Nutrition (Aarhus Denmark)

*Or you make your own specified exchange program*

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**Professional Tracks**

*Broaden your programme, minor thesis in a professional field*

- **Research Master**
- **Business & Management**
- **Communication & Policy**
- **Education**
Job opportunities

Teeling Patfood zoekt:
Een Manager Product Development met kennis van wetgeving, voeding en productontwikkeling

University of Limerick, Ierland zoekt:
Een PhD-student voor Sheep Reproductive physiology with interest in modern molecular biological tools.

Via KLV professional match
Een zuivelproducent zoekt:
Sustainability Project Coordinator met kennis van melkindustrie en bereidheid wereldwijd te reizen

Cargill is looking for:
Senior Scientist Swine at the Cargill Animal Nutrition Platform

Hendrix Genetics is looking for:
Quantitative Geneticist Aquaculture for a master Animal Geneticist

Inholland Hogeschool zoekt:
Docent Dier- en Veehouderij met kennis van dierhouderij en beleidsontwikkeling.

University of Massey, New Zealand is looking for:
PhD-studentship about Welfare of dairy goats in New Zealand

Preparation for MSc

Follow a tailored minor at Wageningen University
- Experience Wageningen University & academic education
- 24-30 credits
- MSc-preparing minor or thematic minor

Contact Egbert Kanis, egbert.kanis@wur.nl

BSc Minor Animal Sciences (WUANS) / BSc

<table>
<thead>
<tr>
<th>Minor</th>
<th>PAH 2016</th>
<th>ECTS</th>
<th>Periodus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction Animal Sciences</td>
<td>6.00</td>
<td>6.00</td>
<td>A/F</td>
</tr>
<tr>
<td>Animal Nutrition</td>
<td>9.00</td>
<td>9.00</td>
<td>A/F</td>
</tr>
<tr>
<td>Animal Welfare and Behaviour</td>
<td>6.00</td>
<td>6.00</td>
<td>A/F</td>
</tr>
<tr>
<td>Animal Sciences Seminar</td>
<td>6.00</td>
<td>6.00</td>
<td>A/F</td>
</tr>
</tbody>
</table>
Admission criteria

- Bachelor degree in related field
- Grade Point Average (GPA) ≥ 70%
- Fluency in English (HAVO 7, VWO 6, IELTS 6.0, TOEFL 80, RATEr)
- Skills in mathematics and/or statistics
- Basic computer skills
- Recommendation letters

Admission committee judges on an individual basis!

Application

Apply online via www.mas.wur.nl

Advise:
- Don’t wait for your graduation (deadline July 1st)
- Check specialisation(s) of interest on www.mas.wur.nl
- Make preliminary schedule (ssc.wur.nl/handbook)
- Make appointment to discuss your tailor-made programme

Contact René Kwakkel (via secretary)
T +31 (0)317 483147 or education.animalsciences@wur.nl
Animal Sciences, in a nutshell

- Academic education
- Unique in the Netherlands
- Animals we care for
- Optional courses
- International (programme and student community)
- Wageningen no. 1 study city
- MSc Animal Sciences is ranked as top education!

MSc Animal Sciences

Lianne Eertink
Student and student coach in MSc Animal Sciences
Background

- Live in Wierden (Twente)
- HBO Applied Biology at Aeres University of Applied Sciences (CAH)
- Animal Sciences, Wageningen University

Company assignment at VKON: Effects of a new innovative infrared head source on piglet development
- Piglets were measured day 0-21

Thesis at VKON: Pro’s and con’s of drinking raw cow milk
- Literature search and talking to stakeholders

Challenges:
- What are the optimal housing conditions for different animals?
- How to measure?
Animal Sciences

- Applying → Developing
- Research skills
- Gain more specialized knowledge
- Be close to source of new developments
- Challenge myself
- Good impression

My Study

- Specialisation: Adaptation, Health and Welfare
  Major Thesis at chairgroup Adaptation Physiology

  Research on the effect of light or temperature changes during hatching on the bone formation of chicks

  Minor thesis at chairgroup Animal Nutrition

  Research on the diet composition of different leaves for zoo elephants
HBO vs. University

<table>
<thead>
<tr>
<th>University of Applied Sciences (HBO)</th>
<th>Wageningen University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dutch</td>
<td>English</td>
</tr>
<tr>
<td>Dutch students</td>
<td>Dutch and international students</td>
</tr>
<tr>
<td>Broader Education</td>
<td>Education towards in-depth knowledge</td>
</tr>
<tr>
<td>Applying theories</td>
<td>Developing theories</td>
</tr>
<tr>
<td>Decent workload</td>
<td>High workload</td>
</tr>
<tr>
<td>Strong connection with sectors</td>
<td>Connection with sector via study association</td>
</tr>
</tbody>
</table>

Next to my study

- Soon living in Wageningen
- Study association “de Veetelers”
  - Connections
  - Informative (seminars + training + excursions)
  - Having a good time

- Activities: Student coach, going out in cafés, diner with friends, sports, running and walking in nature...
Living in Wageningen

- Housing:
  - [http://www.idealais.nl/](http://www.idealais.nl/) (sign in!)
  - [https://kamernet.nl/](https://kamernet.nl/)
  - Facebook: Wageningen Student Plaza

- Facilities:
  - Campus
  - Sport Centre
  - City centre
  - Student associations
  - Nature

Questions?

- [www.mas.wur.nl](http://www.mas.wur.nl)

- Programme director: René Kwakkel
  - Telephone: 0317–483147 (secretary)
  - education.animalsciences@wur.nl

- Student coach: Lianne
  - studentcoachmas@wur.nl

[www.wageningenur.nl](http://www.wageningenur.nl)
@dierwetenschappen
@WURanimal