

# iPAB - Integrated Plant and Animal Breeding

## Shaping the future of breeding research

- ▶ Are you interested in both crops and livestock?
- ▶ Are you excited about an international career in breeding research?

### Choose the new specialization for your master studies: INTEGRATED PLANT AND ANIMAL BREEDING

Animal and plant breeding are driving the development of new livestock and crop varieties that can cope with the challenges ahead.

Breeding research integrates areas such as quantitative and molecular genetics, biotechnology, and breeding informatics. It has close links to neighboring fields like animal and plant nutrition, animal health and crop protection, but also marketing, economics and ethics.

Highly specialized experts in this field are required worldwide and have excellent career opportunities in both academia and industry.

The curriculum of the newly implemented specialization “Integrated Plant and Animal Breeding” covers all relevant disciplines of breeding research. Newly developed modules provide a profoundly interdisciplinary approach to teaching, thus bridging the gap between animal and plant breeding. You will gain comprehensive knowledge in a wide range of methods and fields of application.

The coursework is supplemented by external lecturers from leading international breeding companies, research institutions, and national authorities. The study program also comprises research-intensive internships in the industry and public research institutes, bringing you in direct contact with potential employers.

The new specialisation “iPAB” is scheduled to start in the winter semester 2016/2017. iPAB will initially be embedded in the Master Program for Agricultural Sciences. It is planned that the program will be transferred into a consecutive Master degree program by winter semester 2018/2019. Students specializing in iPAB will then be automatically transferred into the degree program.



## iPAB at a Glance:

### Language

English

### Admission requirements

BSc in agriculture, biology or related disciplines; the admission regulations for the master program "Agricultural Sciences" will be applied; Proof of proficiency in English: CEFR Level C1 (TOEFL or equivalent)

### Your profile

High degree of self-motivation and natural curiosity to tackle complex biological problems; Research-minded and not afraid of lab work, big data, mathematics and statistics; Interest in a long term engagement in international breeding research

### Contents/ Modules

*Compulsory modules:*

Quantitative genetics and population genetics; Breeding schemes and programs in plant and animal breeding; Statistical genetics, breeding informatics and experimental design; Biotechnology and molecular genetics in plant and animal breeding; Selection theory, design and optimisation of breeding programs

*Elective Modules:*

e.g. Breeding Informatics; Legal issues in plant and animal breeding; Poultry breeding and genetics; Biotechnology and forest genetics; Genetic resources; Seed Marketing; Internship...

... and further interesting modules

### Career perspectives

iPAB prepares you for an international career in the breeding sector

- ▶ Plant breeding companies
- ▶ Animal breeding companies
- ▶ Breeding associations
- ▶ Public and private research centers
- ▶ Governmental agencies
- ▶ International organisations

### More information

[www.uni-goettingen.de/de/533390.html](http://www.uni-goettingen.de/de/533390.html)

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