

## **Research on the Reform of Basic Courses in Higher Agricultural Colleges-- Take animal physiology as an example**

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**Abstract.** Examination is an important link in teaching process and also a significant way to evaluate the student learning effect assessment. Animal physiology is one of the important professional basic course in agriculture and forestry universities. In this study, we used animal physiology course as an example, and put examination throughout the teaching curriculum by reforming the content and form of examination. The results showed that, Scientific and reasonable examination could urge the students to take the use of time to study effectively, then reduced probability of no sheer, and also had a promoting effect in improving the teaching quality.

### **Introduction**

The examination is an important part of the teaching management in colleges and universities. It is one of the effective ways to evaluate the students' learning effect and measure the teaching level of the teachers. It is also an important means for the construction of the quality of the school. Therefore, the examination has the function of baton. However, the traditional examination did not play the real role of the examination, because the traditional examination is mainly based on test scores to assess the level of student learning, do not pay attention to the process of assessment and students practical ability training [1]. The traditional examination mode is mostly closed volume, the prevalence of "closed book examination, open less; curriculum examination, less examination; written test, oral examination and other comprehensive examination less; theoretical examination, the actual operation of the test less" and so on [2], the examination of knowledge memory is far greater than the ability to use the test. Not only the form of a single test, the contents of the examination papers often lack of innovation, Teachers from the question bank in the study of life, not easy to integrate frontier discussion and the current theory, Students are increasingly obsolete of knowledge, it is difficult to get innovation and breakthrough. Conservative test mode caused the students in the learning process of slack, especially the liberal arts students, pay attention to memory, contempt for understanding, Through the centralized review before the examination to achieve a higher grades, but failed to really digest the depth of professional content. It hinders the future direction of research and graduation thesis writing. The examination mode of pay attention to the objective memory contempt for comprehensive thinking, pay attention to the written theory contempt for actual operation can not fully reflect the purpose of applied talents training. Therefore, only the reform of the traditional examinations in order to promote the teaching content, teaching methods of reform, and then cultivate the innovative thinking of college students to improve the overall quality of college students [3-5]

Animal physiology is one of the important basic courses of animal medicine, animal science, animal medicine and so on in the agricultural colleges and universities. It occupies an important position in the personnel training system. Animal physiology is a branch of physiology, the study of animal life activities and its laws of a science, has a strong theoretical and practical [6]. It is not only the theoretical basis for the proper breeding and breeding of livestock in the practice of animal husbandry, but also the correct understanding of disease in clinical medicine, the analysis of pathogenic causes, and the rationale for rational treatment. Therefore, students master the degree of

physiology knowledge directly related to their future development. In view of this situation, this group of animal pharmacology as a pilot, the animal physiology curriculum examination reform attempt, and achieved good results, the specific reform is mainly reflected in the following aspects.

### **The Content and Form of Curriculum Reform**

To comprehensively cultivate and examine students' knowledge and ability, combined with the characteristics of animal physiology curriculum, reform the contents of the examination and the form of examination, the process assessment into the entire teaching session, the establishment of a scientific performance evaluation system. Thus the animal physiology curriculum developed the following performance evaluation system, the total score from the experimental results, usually results, mid-term and final exam scores composed of four parts. Which accounted for 10% of the total score, including attendance, questions and classroom performance; experimental results accounted for 20%, including 15% of experimental reports and lottery field skills test 5%; mid-term examinations accounted for 10%; final exam (closed volume) 60% of the total score. And finally take the summary of the various parts of the course as a student to study the final evaluation of the course.

**Classroom Performance Assessment.** Classroom performance mainly from the student class attendance, questions, notes, mental state and other aspects of the assessment, teachers from time to time to check the attendance of students and do the record, students need to be remedial classes and class teacher's fake, and have a legitimate reason. For no reason for absentee students to give penalty points, 2 points each time, until finish buckle. Class questions are questioned in the form of random names. All students may be selected to answer questions. This requires students to concentrate on listening, taking notes, and taking a refresher lesson after class. Mental state is mainly refers to whether there is sleep in the classroom, secretly playing the phone and so on, according to the specific circumstances to give points to deal with. Through these assessment, that is to ensure that the classroom attendance, but also effectively improve the student's learning effect, so that students can enter the classroom will be able to listen carefully, the effective use of the classroom time, shorten the time to enter the general review, To improve the efficiency of learning.

**Experimental Skills Assessment.** Experimental skills assessment focus on investigating students' application ability, mainly through the following aspects, the first is the evaluation of students' experimental operation skills, the main purpose of this link is to enable students to master the correct method of operation. Including the use of basic experimental operating skills and commonly used laboratory equipment, such as the capture and administration of experimental animals, tissue separation and intubation, the use of the BL-420 bio-functional experimental system [7]. Followed by the experimental report reflects the students to analyze the problem, the ability to solve the problem of evaluation; experimental report is the purpose of the experiment, methods, processes, results recorded, compiled by the written report, the experimental report focus on the report writing format and The results of the evaluation, such as experimental failure should identify the cause of failure and analysis [8-9]. Finally is to draw the inspection key experimental project, the main measure of the experimental principles, methods, precautions and other experimental skills of the comprehensive ability. Through this assessment, urged students to theoretical knowledge and experimental skills to pay attention to improve the practice of students' practical ability.

**Mid-Term Exam.** The mid-term exam is an effective means of examining students' learning in one stage [10-12]. Animal physiology of the mid-term exam selects some of the important terms written in the form of written practice, accounting for 10% of the total score. Through the mid-term examinations, students can be urged to effectively use the usual time to study, so that students can find themselves in the study of omissions and deficiencies in order to facilitate the second half of the adjustment and improvement, has its positive role

**Final Exam.** The final exam is a system and a comprehensive assessment of the learning content and the learning effect. The course is closed in the form of closed book. The establishment of animal physiology test questions, the implementation of A, B volumes, randomly selected by the Academic Affairs Branch, to prevent the problem; the implementation of batch flow of water

operations, in strict accordance with the scoring standards. Final exam questions are diverse, difficult to moderate, 20% of the noun, 10% judgment, 20% choice, fill 10%, short answer 20%, discussed 20%. , Especially the topic of the question given to give the three questions in the form of any two answer to the form, which effectively avoid some students appear back wrong, back bias phenomenon

## Experience

Examination is an important measure to measure the quality of teaching, is to deepen the teaching reform, improve the effectiveness of teaching an important means [13]. This content and form of curriculum reform mainly from the classroom performance, experimental skills assessment, mid-term examination, final examination and other aspects of the process, the process of assessment throughout the entire process of teaching. Through this assessment to reduce the pressure on students to cope with the examination, to mobilize the enthusiasm of students to learn to help students arrange a reasonable study plan. More importantly, it can develop students to take the initiative to learn the psychological and active knowledge of consciousness. And the reform of the course examinations to reduce the end of the written test in the total score in the proportion of the original 70% to 60%, and reflects the importance of process assessment, focusing on classroom performance assessment and experimental skills assessment, and experimental skills assessment Lottery assessment and experimental report combined form, breaking the original focus only on the experimental report of a single model, an increase of mid-term examination accounted for 10%. Through these aspects of the assessment, so that students fail rate from 12.5% last year dropped to 1.8% this year, greatly improving the passing rate of students. But also to enable students to realize that in order to score high score in the course, not only for the final exam high scores, but also efforts to take the mid-term examinations, usually the assessment and experimental skills of high marks. This form of assessment, is conducive to the student's learning to guide the whole process of curriculum learning, to reverse the students usually do not study hard, short-term assault at the end of a large lead to fail or frequent cheating phenomenon. Therefore, I believe that the curriculum exam throughout the teaching link is the key to the success of this examination reform.

## Summary

Examination is to check the teaching effect, improve the quality of teaching and training of qualified personnel an important part. Therefore, the scientific and reasonable assessment system is the key to the reform of teaching. Whether the teaching process can be closely integrated with the examination reform is an important problem in the relationship between examination reform and teaching reform. The relevant departments of colleges and universities should establish the correct guiding ideology, attach importance to the course examination, establish the examination system of the course examination, and strengthen the usual test. Actively develop and improve the form of the course examinations, and give full play to the guiding function of the course examinations, so that the course exam really can check the students' learning situation, evaluate the teaching effect, feedback the teaching information and improve the teaching quality.

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