

# Construction of Early-warning and Helping mechanisms for "Learning Difficulties Group" in Colleges and Universities

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**Abstract.** A considerable number of college students will meet the trouble of learning difficulties, also known as learning disabilities, which is a worldwide research topic in modern education. Based on the statistical analysis of the course credit data, this paper studies the reasons of learning difficulties. By establishing the course credit point index, an early-warning system for academic grades was improved. Some helping mechanisms for "learning difficulties group" were given.

## Introduction

With the continuous promotion of the popularization of higher education, the quality of students enrolled in Colleges and universities has shown a downward trend. Due to their own, family, social and school factors, a considerable number of students find it difficult to adapt to university learning and various learning obstacles, such as poor academic performance, low course scores, backward academic ranking, facing demotion and dropout. The formulation and implementation of academic assistance measures is an important part of academic guidance in Colleges and universities, and also the key to help students with academic difficulties out of the predicament and enhance their academic performance. Therefore, it is an unavoidable responsibility and mission for colleges and universities to pay close attention to "learning difficulties group", innovate working ideas and take effective measures to promote the sustainable development of College students.

This paper takes the group with learning disabilities as the main object of study, through my teaching management practice of helping students with learning disabilities during my tenure as an academic tutor, aims to study the status of the group and find out the reasons for the problems, so as to provide teaching and student management departments, teachers and academic guidance for Colleges and universities. Teachers provide solutions to the problem of "students with academic difficulties" and provide suggestions for the comprehensive reform of higher education.

## The Performance and Causes of "Learning Difficulties Group"

**The Performance.** College students with learning difficulties can be defined from three aspects: 1. the gap between academic achievements and expectations; 2. the continuity of learning difficulties, not temporary, and accompanied by a certain degree of learning weariness; 3. academic achievements does not meet the basic requirements of the University syllabus, it is difficult to adapt to more targeted. The teaching mode designed by mathematics students. At the same time, these three conditions can be generally defined as "students with learning difficulties". The group composed of such students is the "academic difficulties group".

From the above criteria, we can see that the main manifestations of the group with learning difficulties are as follows: (1) Learning helplessness refers to the acquisition of helplessness after repeated failures or setbacks, even after several efforts, but for various reasons, the results are still unsatisfactory. Helping mood shows the behavior and psychological state of being helpless to reality and even being at the mercy of others, which leads to "fear of learning" to "dislike learning". Some college students show dejection when they encounter difficulties in the process, give up their studies halfway or even give up their studies. (3) The teaching mode is not suited to the method obstacles. It refers to the unique teaching methods and teaching methods of University teachers, that does not formulate a reasonable learning plan, and does not scientifically arrange after-school time,

resulting in a sharp decline in performance, thereby affecting academic performance and learning confidence.

**The Cause.** The first reason is the student's own factors. Some students do not have clear goals, lack of ambitious goals and lack of motivation; some students have poor adaptability, lack of planning, weak willpower, poor self-control, lack of autonomy and other reasons, resulting in learning difficulties; some students because of addiction to the network and psychological barriers also make some students in the academic table. It is not good at present. All the problems that may cause college students will eventually be reflected in their studies.

The second reason is family factors. Some students with financial difficulties tend to pursue self-worth in their academic performance, but if they do not get good grades, they will have self-reproach and inferiority; some students whose parents are divorced and lack of care for their children will affect their studies.

The third reason is social factors. The social values of "money first" and hedonism make many college students feel impetuous and difficult to study at ease; the topics of "uselessness of reading" and "difficult employment of College students" have seriously impacted the University campus, resulting in some college students do not attach importance to curriculum learning, and spend a lot of time and energy on "social" each.

The fourth reason is school factors. Because of some unreasonable specialty settings in Colleges and universities, even if students find the specialty they are really interested in in the course of study, but because of the difficulty of changing their specialty, students reject the study of this specialty and thus dislike learning; because of the imperfection of the school's thrifty loan system, some students with financial difficulties in their families can only spend more time doing it. Part-time job may not guarantee normal learning time.

### **Construction of Early-warning Mechanism by Course Credit and Credit Point Index**

**Early-warning by Course credit Index.** Every year at the beginning of the school year, a credit check is conducted on all students. If the credits obtained in the course of a school year do not reach the minimum, a credit warning is made in time. At the same time, parents are informed that the purpose is to make students have a clear understanding of their academic situation, raise their awareness of crisis and enhance their motivation for learning. Credit is an important factor in considering students' studies.

According to the total amount of credits obtained by students each semester, early warning indicators can be formed.

**Early-warning by Credit Point Index.** As a quality indicator, Course performance point can measure the academic quality of university students. The specific conversion methods of the Course credit points are list with Eq.1 and Eq.2:

$$\text{Course credit points} = \text{Course performance point} \times \text{course credit} \quad (1)$$

$$\text{Average course credit points} = \frac{\sum (\text{Course credit points})}{\sum (\text{course credit})} \quad (2)$$

Credit points and course scores can be converted according to Table 1.

**Table 1 Credit points for percentile system and five level system**

Percentile system	Academic record	100-95		94-85		84-75			74-65			64-60	≤60
	Corresponding credit point	5.0		4.9-4.0		3.9-3.0			2.9-2.0			1.9-1.5	0
Five level system	Academic record	Excellent			Good			Well			Pass	Fail	
	Corresponding credit point	4.5			3.5			2.5			1.5	0	
	Corresponding credit point	A+	A	A-	B+	B	B-	C+	C	C-	D	F	
	Corresponding credit point	5.0	4.5	4.2	3.8	3.5	3.2	2.8	2.5	2.2	1.5	0	

According to students' credits and performance points, a four level warning level can be formed. Help early warning mechanism is shown in Table 2.

**Table 2 Early-warning level for assistance**

Early-warning level	I level	II level	III level	IV level
<b>Screening range</b>	semester credits are less than 12 points.	semester total credits are less than 15 points or cumulative average points below 2 points.	semester total credits are less than 20 points or cumulative average points below 3.2 points.	during the semester, credits or performance points dropped by more than 15%.
<b>Mainly assisting the responsible person</b>	college secretary, deputy secretary, counselor, academic tutor, class committee	counselor, academic tutor, class committee	counselor, academic tutor, class committee	class committee
<b>Help modes</b>	talk, file management, group help, supervisory help, collaborative help, friend help, academic guidance center help			

### Research on the helping mechanism

Firstly, stick to the principle of "one pipe to the end". School in line with the family, school, responsible attitude of students, strengthen the education and management of students with learning difficulties. Adhere to the principle of "one pipe to the end" of counselors and academic advisors. The key is to adopt the principle of "one pipe to the end" for students who are demoted by early warning. That is, the counselors and academic tutors at the time of admission are responsible for the corresponding assistance and education management of the students until graduation.

Secondly, we should establish an early warning system and a home school linkage system. (1) The student affairs office and the Academic Affairs Office jointly implement the student status early warning system. Student status early warning refers to prompting and informing oneself and parents of the unhealthy study situation in time, and taking corresponding preventive measures, through the school, students and parents to communicate, cooperate, timely guidance, timely intervention, form a joint force, and urge students to comply with Schools and professional personnel training objectives, and strive to learn, to help students successfully complete their studies. According to the provisions of the Interim Measures for the Early Warning System of

College Registration Management and the actual situation of the students, the head teachers, counselors and the Deputy Secretary of the Party General Branch of each college and department will talk to each other separately to strengthen the education of academic guidance. Make a detailed account of the conversation, and fill out the "early warning statement". (2) Home-school contact system can be implemented through the following ways: after the end of each semester examination, schools use EMS to mail transcripts, A Letter to Parents and warning notices to parents, many parents through a variety of ways to feedback and communicate with counselors and establish contacts. Especially for students with learning difficulties, counselors and class teachers should regularly communicate with their parents in various ways, so that students with learning difficulties are stressed, confident, motivated, determined and capable of improving their learning methods, overcome learning difficulties and improve their academic performance.

Thirdly, strengthen the construction of three positions. 1. We should strengthen the construction of class atmosphere and housing culture for students with learning difficulties. 2. We should set up a "virtual class" to form a "virtual class group" for students who are warned of relegation and dropout, which is responsible for the study, life, psychology and other aspects of the members of the class. 3. The establishment of early warning student archives to achieve dynamic tracking management of students with academic difficulties, colleges and departments to establish and improve early warning student archives.

Fourthly, implement tutorial system and innovate academic guidance. Explore the implementation of undergraduate "tutorial system", each small class of undergraduate students equipped with a tutor, tutors in learning and life, scientific and technological innovation, social work and life planning and other aspects of students to guide, educate and help. To organize support teams for teachers, academic tutors, class committee, excellent students, and to form a good atmosphere for helping students with learning difficulties.

## Summary

Construction an early-warning mechanism for college students' learning is a new measure to deal with new problems in the new situation. In the process of self-management and self-learning, students can be aware of the seriousness of difficulties and problems in the learning process, correct their learning attitude as soon as possible, effectively stimulate internal learning motivation, and successfully complete their studies with the help of teachers, parents and students. How to effectively implement this mechanism and achieve better early warning effect still needs further exploration and practice of university managers and educators at all levels.

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