

## Research on the Ecology of College English Education Based on Modern Information Technology

Wang Hongxia

School of Foreign Language, Inner Mongolia University of Science and Technology, Baotou City, Inner Mongolia, 014010, China

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**Abstract:** Under the background of all-round quality education, using modern information technology to construct college English ecological classroom is conducive to meet the learning needs of students. It also can effectively highlight the status of students' learning subject. The main purpose of constructing the College English classroom ecology is to cultivate students' English language skills. Besides, it can make students feel the fun of English learning and the rich connotation of English language culture in a subtle way, and constantly help students form a good attitude to participate in College English classroom teaching.

### 1. Introduction

The term "ecology" was first proposed by the German biologist Haeckel in his book *General Physiology* in 1866. It studies the relationship between organisms and their living environment and the principle of their interaction. Ecology emphasizes ecological balance, that is to say, in a certain period, organisms and environment, individuals and populations, as well as material circulation and information transmission can reach a highly adaptive, coordinated and unified state through energy flow. With the application of ecological principles and research methods in the field of sociology, researchers try to put education in the living environment of human beings, and study the relationship and mechanism between education and ecological environment, which is the background of the concept of "ecology of education". Its core content is the ecological balance of education. With the deepening of the research of educational ecology on educational environment and classroom environment, researchers began to turn the research content of educational ecology to curriculum research, especially the research on the integration of modern information technology and curriculum, and gradually formed a post-modern research trend of educational ecology.

Extended to college English teaching, College English curriculum teaching requirements (2007) (hereinafter referred to as "curriculum requirements") points out: College English curriculum should develop and build various courses based on advanced information technology, and adopt the teaching mode based on computer and network in classroom. This indicates that college English teaching has entered a post College English era characterized by "internationalization of teaching concept", "normalization of multimedia teaching", "three-level management of curriculum" and "ecology of teaching environment". The reform of ecological College English curriculum system has become an important part of College English teaching reform. Han Geling and others hold that the ecological College English classroom teaching should be based on the individualized, hierarchical and multi ecological College English curriculum system, and the organic combination of information technology and curriculum is the effective classroom teaching mode to realize the multi ecological College English curriculum system. These studies point out the direction for the ecological reform of College English curriculum, and the ecological problems of College English curriculum reform under the information technology environment are also concerned.

## **2. The imbalance of College English Classroom Ecology under the background of modern information technology**

### **2.1. Environmental ecological imbalance**

At present, the imbalance of College English Classroom Ecology mainly lies in classroom environment ecology. In the process of Constructing College English classroom, some teachers have not fully used modern teaching tools according to students' learning interests, while many students' English information mostly comes from textbook knowledge. Instead of actively using modern information technology, such as broadcast, videos and other network media to build a good learning environment in College English classroom, teachers still use the indoctrination teaching method to indoctrinate knowledge to students, so that many students are in a passive learning state in College English classroom teaching, which is difficult to better integrate into the classroom teaching. In addition, although some teachers actively use information-based teaching tools to design classroom teaching courseware and teaching content under the background of modern information, there is still a lack of relevant skills in collecting resources and English content and integrating them with traditional teaching methods. Its teaching environment and content are difficult to meet students' learning needs, which makes a lot of teaching resources and equipment unnecessary waste, to a certain extent, affects the construction of College English classroom ecology, and is not conducive to improving the quality and level of College English teaching and learning through the ecological environment classroom<sup>[1]</sup>.

### **2.2. Cultural ecological imbalance**

At present, the imbalance of College English classroom ecology also includes cultural imbalance. In College English classroom teaching, English culture and Chinese culture coexist. However, most of the knowledge in English textbooks is about the culture of European and American countries, which makes the Chinese culture in textbooks "rare". Some teachers pay too much attention to the explanation of Chinese and Western culture in the process of choosing English teaching content through modern information technology, resulting in the current situation of "Cultural Aphasia" in College English classroom. Teachers do not actively use modern information technology to integrate western culture with Chinese culture, lack of context and environment for cross-cultural communication for students, which makes many students' ability to introduce Chinese culture in English generally retarded. It is neither conducive to improving the quality and level of College English classroom teaching, nor contributive to students' further learning of conflicts, comparisons and symbiosis between two different cultures. To a certain extent, the process of College English culture classroom ecological imbalance and damage<sup>[2]</sup>.

### **2.3. Psychoecological imbalance**

The imbalance of psychological ecology is also the main reason for the imbalance of College English Classroom Ecology under the background of modern information technology. Influenced by the traditional idea of examination oriented education, many college English teachers still adopt the self-centered indoctrination to impart knowledge in the teaching process. They do not fully build a good teaching ecological environment through multimedia technology according to the students' psychological learning characteristics and learning interests, and lack of interaction and communication with students. Because of the large class size, it is difficult for teachers to give an attractive lecture in the teaching process to draw most students' learning attention. Moreover, many students have low initiative and enthusiasm in the process of College English learning and lack interest in English learning<sup>[3]</sup>.

### **3. Strategies for the ecological construction of College English classroom under the background of modern information technology**

#### **3.1. Autonomy of classroom environment**

On the one hand, under the background of modern information technology, College English teachers should constantly improve their information technology literacy and the ability of searching, acquiring and analyzing information on the Internet, and reasonably and effectively help students to make multimedia courseware and video files. In the process of making courseware, chart, text, voice and image should be fully combined to deal with the design and style of teaching courseware with individuation, and explain English knowledge through multimedia courseware in classroom teaching, so as to constantly enliven the classroom atmosphere and environment. On the other hand, in the process of teaching, teachers can use flipped classroom, micro class and MOOC class to access the Internet, so as to timely understand and master the learning situation of students in the process of network. It can also help students to build an English classroom communication environment through a variety of teaching methods, so that students can interact and communicate with each other in combination with classroom video autonomous learning, which not only promotes the construction of their own knowledge system in a relaxed and pleasant atmosphere and exchange activities, but also effectively improves students' initiative and enthusiasm in learning, so as to respect students' individualities in college English. To meet the needs of learning, we should further construct the ecological teaching atmosphere and environment in College English classroom<sup>[4]</sup>.

#### **3.2. Modal teaching method**

In order to create an ecological College English classroom, teachers are supposed to constantly enrich the content of classroom teaching and actively adopt a variety of teaching methods around college English textbooks to improve students' interest in learning and meet the improvement of students' abilities in all aspects. Teachers should insist on adopting CBI teaching method in modern information technology to enrich teaching contents with the improvement of students' language application ability. The advantages of CBI teaching method include that it can not only enable students to learn subject knowledge, but also promote language learning through corresponding subject knowledge. In the process of teaching, teachers should effectively penetrate into the cultural background and connotation of English textbooks besides the textbook knowledge. For example, in the process of learning a certain context and article, teachers can play pictures and videos or even news or lively broadcast of Western cultural background for students through multimedia. In the process of watching the video, teachers can combine the teaching materials to explain the differences between western culture and Chinese culture, actively create a cross-cultural communication environment for students, and help students improve their English application ability through role-playing, classroom speech, cooperative learning and other methods<sup>[5]</sup>.

#### **3.3. Harmonious relationship between teachers and students**

The construction of the ecological classroom teaching mode of College English is inseparable from the interaction and communication between teachers and students. Teachers and students are interdependent and symbiotic in the classroom. Building a harmonious relationship between teachers and students can effectively balance the classroom ecology, change the traditional self-centered teaching mode of teachers, and fully highlight the status of students in the classroom. First of all, before teaching, teachers can collect teaching resources and innovate teaching courseware for students through modern information technology, and send or copy them to students before classroom teaching, so that students can understand the knowledge points to be learned in

this lesson. At the same time, teachers can also interact and communicate with students in the process of watching the video, fully meeting students' needs so that English teaching and learning are connected. Secondly, as the initiator and cultivator of classroom teaching, teachers need to strengthen the interaction and communication with students in the teaching process. They are supposed to discover, organize and manage knowledge, language and ability and put students first in the ecological classroom, constantly arouse the subjective initiative of students, respect the individual differences between different students, guide students in progressively understanding the English cultural background and gain in the process of English learning. They need emotional experience to improve the teaching quality and efficiency in the ecological environment of College English<sup>[6-8]</sup>.

#### 4. Conclusion

To sum up, in order to build an ecological College English curriculum system in the information technology environment, it is necessary to integrate modern information technology into all aspects of College English teaching. Considering it as a cognitive tool and emotional incentive tool does good to students' autonomous learning and a rich teaching environment, which is helpful to achieve the integration of information technology and College English curriculum. The teacher-centered teaching structure creates a new type of "leading subject" teaching structure. The integration of information technology and College English curriculum will be the basic direction of College English curriculum reform in the future. In order to give full play to the basic role of information technology in curriculum construction, integration should not be limited to the level of teaching process and teaching means. It only focuses on the selection of teaching strategies and teaching resources, and it cannot take the place of students' great efforts. Only in this way can college English teaching go into a compatible, dynamic and benign orbit.

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