

# Exploring the Talent Training Mode of Cooperative Teaching in Stereo Cutting and Fashion Design Courses

Wu Jing, Li Yang

College of Light Industry, Textile and Food Engineer, Sichuan University  
Wangjiang campus, Sichuan University, No.24 South Section 1, Yihuan Road, Chengdu  
Chengdu, Sichuan, China  
18280427860,1101399103@qq.com

## Abstract

Institutions of higher learning are regarded as important bases for the training of professional talents in fashion fields. With the increasingly fierce competition in fashion industry, there are also various challenges in the training mode of talents. Teaching reform has long been urgent. This paper expounds and analyzes the teaching reform ideas and methods of the stereo cutting and fashion design courses by analyzing the current situation and existing problems of the two courses. Through the exploration of the talent training mode of cooperative teaching of stereo cutting and fashion design courses, the single content and form of traditional professional courses are changed to enhance students' creative potential and the ability to adapt to market demands while improving the quality of teaching methods and teaching effects. The exploration of the cooperative teaching mode of courses has certain reference value for the cultivation of innovative talents in fashion design.

**Key words:** Stereo cutting, fashion design, course cooperation, talent training mode

## 1 Research Background

The clothing industry has both strong professionalism and certain comprehensiveness. Especially with the improvement of the public's aesthetic level, in addition to the level of technology, the fashion and aesthetics of clothing products are getting more and more attention, which puts higher requirements on the comprehensive quality of clothing design practitioners. Institutions of higher learning are important bases for talent training. How to adapt to the needs of the talent market and deepen the teaching reform of fashion design courses is urgently needed. Cultivating comprehensive talents with solid design theory knowledge, strong hands-on practical ability and high artistic aesthetic level has become a recognized talent training target in the field of clothing education.

Stereo cutting and fashion design courses are the main courses of the fashion design major, and also the professional foundation courses in the clothing professional teaching. China has introduced a large number of foreign Stereo cutting technology and advanced design theory in recent years. After the research of the Stereo cutting teaching content of higher clothing professional college in Europe, America and Japan, the domestic clothing education field has gradually realized the ability of garment design and garment structure design are both necessary for the modern clothing design and technology

talents[1], the intersection of professional courses and the unity of the curriculum teaching system should be stressed.

## 2 Course Description and Teaching Objectives

### A. Course Description

Stereo cutting and fashion design are compulsory courses for fashion design major. The content of fashion design course mainly involves basic theory of clothing design method, knowledge of clothing color, design of clothing style, etc. style diagrams and renderings are used to show different styles of clothing. Fashion design course emphasizes the transformation process from inspiration to finished clothing. Stereo cutting course is a combination of theory and practice, focusing on the integration of art and technology, emphasizing the scientificity and accuracy of garments structural design. The cooperative teaching of stereo cutting and fashion design course is aimed to guide students to design more scientifically, and to cultivate students' ability to realize design ideas by using the scientific method of three-dimensional cutting.

### B. Teaching Objectives

The fashion design course is aimed at enhancing students' understanding of the whole process of fashion design and production, improving the students' fashion acuity, mining their design potential, cultivating the innovation awareness, and training students to express their design ideas. The teaching of stereo cutting parts is aimed at enhancing the students' hands-on practical ability and cultivating students' ability to use various methods to design garments. Through the cooperative teaching of stereo cutting and fashion design courses, students are guided to focus on the transformation process of garments while carrying out creative design. At the same time, they pay more attention to the artistic expression while designing garment styles. The goal of cooperative teaching of these two courses is to cultivate comprehensive talents for clothing professional fields that combines art and science, theory and practice.

## 3 Current problems in the teaching of the course

### A. The teaching mode of the course is single

At present, the single teaching mode is a common problem in the domestic Stereo cutting and fashion design courses. Although students can use a variety of techniques to create unique costumes on the mannequin through the study of the three-dimensional cutting course, most of them are random. Works are often designed while operating, lacking overall

planning for the design process, and it is difficult to develop students' ability to find problems and solve problems.

Most of the fashion design courses in domestic universities are mainly in the form of teaching single style drawings and renderings. Students gradually become garment designers like clothing illustrators who lack perceptual cognition of clothing. Most students only emphasize the two-dimensionality artistic effect of the works in the course practice. As a result, the fashion design works are over-artistic [2], which leads students to neglect the process from design idea to finished product. After graduation, they can't adapt to the real clothing production mode.

#### *B. Course contents are lack of convergence*

As professional basic courses in the professional teaching of fashion design major, stereo cutting and fashion design courses should complement each other in content. However, most of the two courses offered by domestic universities are lack of content connection. The design theory of fashion design courses cannot be fully integrated with three-dimensional cutting technology. Most students unilaterally pursue artistic effects of fashion design, but they are lacking in garment technology, resulting in imperfect professional knowledge system and weak professional foundation. It is difficult to adapt to the demand of comprehensive talents in today's garment industry.

### **4 Approaches to solving teaching problems**

The teaching mode and teaching content of any course are not immutable, and ought to be adjusted according to the needs of the talent market and the actual situation of the students. The teaching of fashion design major has strong professionalism and practicality. It emphasizes the integration of theory and practice, emphasizes students' in-depth thinking on the basis of theoretical knowledge, and thus enhances a series of comprehensive qualities of students such as aesthetic level and the transformation ability from ideas to finished products.

#### *A. Establishing links between courses*

For the stereo cutting course and fashion design course, the same project theme is set, and the students are required to complete a series of designs in the form of a project team, and display the finished works on the mannequin. The teacher will judge from four aspects: design concept, fabric application, display effect, and fitness. During this process, students have to use the theoretical knowledge of design to express their creative ideas. At the same time, they must repeatedly carry out style adjustment and fabric experiment on the mannequin to ensure that the design ideas can be realized on the mannequin and ensure the fitness of the garments. Students can gradually establish the awareness of scientific design, and truly have the ability to complete the whole process of fashion design through the connection of these two courses.

#### *B. Building a high-level faculty*

It is necessary to invite senior experts and technicians of garment enterprises to give lectures or trainings to teachers and students, and delegate fashion design course teachers to study abroad to learn stereoscopic cutting knowledge. Furthermore, it is essential to establish a cooperative teaching research group

for fashion design and stereo cutting courses to strengthen exchanges and cooperation between curriculum teachers. On this basis, efforts are made to carry out in-depth teaching reform and innovation related to three-dimensional cutting, and continuously improve the curriculum cooperative teaching practice teaching system. The clothing teaching department should recruit young teachers with clothing design and three-dimensional cutting knowledge system and professional background through various channels, and build a comprehensive and diversified teaching team that meets the requirements of talent training and curriculum cooperation.

#### *C. Establish a research-oriented teaching platform*

Clothing professional college need to gradually improve the clothing design professional training program and professional curriculum, extensively investigate the relevant situation of the garment enterprise production line and design research institutions, reform the laboratory construction program, improve the experimental conditions and enrich the teaching forms of the clothing design and the stereo cutting courses by introducing advanced experimental equipment. In the course teaching, by organizing students to carry out project experiments, teachers try to create a "studio-style" learning and research atmosphere in order to guide students to build research-oriented awareness and achieve the organic combination of theory and practice. Meanwhile, it is vital to provide resources for the expansion of students' professional knowledge, and to build a platform for the cultivation of comprehensive talents for clothing professionals.

### **5 Innovation in teaching methods**

Any reform of education and teaching should ultimately be implemented in the innovation of teaching methods. To realize the cooperative teaching of three-dimensional cutting and fashion design courses, it is necessary to adjust the traditional single classroom teaching mode, improve the professional curriculum system, and build a comprehensive and multi-level Practical teaching system.

#### *A. Classroom Teaching Model Innovation*

Relying on the research-oriented teaching platform of fashion design, a series of innovative classroom teaching activities should be carried out. The project team is the basic unit of teaching, and the course assignments are arranged in the form of "Project Task Book". Students are required to complete the design process from three-dimensional cutting to garment design to three-dimensional display through teamwork [3]. By inviting industry experts and enterprise technicians to participate in the evaluation of course assignments, students' design work can get a comprehensive and multi-level assessment. At the same time, teachers should be an advocate of the teaching mechanism of "promote learning via competition", and make great efforts to mobilize students' enthusiasm to participate in the fashion design competition. During the process, students' overall awareness is cultivated and the learning effects are tested.

#### *B. Curriculum Model Innovation*

In the setting of stereo cutting and fashion design courses, the teaching mode of cross-cooperation of courses should be

stressed so as to realize the application of interactive practical teaching system, and further improve the content setting of steric cutting courses. The stereo cutting course has been set to the primary course and the senior course. Although it is set to two stages, it only shows the difference in difficulty level, but there is no positioning information of the course function. Therefore, the steric cutting course should be set by reflecting the different directions for solving the problem. Specifically, the stereo cutting course should be divided into two directions: steric cutting technology and steric cutting modeling. Among them, the focus of the steric cutting technology course is to cultivate students' mastery of fabric yarns' ability to control and shape space. In the steric cutting technology course, combined with the knowledge of the clothing structure and craft curriculum, the advantages of the steric cutting teaching method can enable students to understand the relationship between the clothing and the human body and shape the conventional clothing with different space settings. The focus of the steric cutting modeling course is to express the different shapes of the clothing through the means of three-dimensional cutting in order to enhance the students' aesthetic sense of the three-dimensional shape of the clothing and the ability to create three-dimensional modeling.

### *C. Teaching system innovation*

The clothing design professional teaching system is the framework and foundation for the cooperative teaching of the stereo cutting and clothing design curriculum, and also the top design of the classroom teaching reform. According to the talent training program, clothing professional college should carry out the overall layout and unified planning of the professional courses to strengthen interpenetration and convergence between courses. Meanwhile, opportunities should be provided for students of different grades to exchange knowledge, and in-depth classroom teaching reform should be carried out to realize equal emphasis on theory and practice. It is necessary to improve the practical teaching system and achieve the coordinated development of professional courses.

## **6 Epilogue**

It is necessary to break the traditional single teaching mode and relying on the cooperative teaching of stereo cutting and fashion design courses to cultivate students' comprehensive ability, which has been a new requirement for the professional education of clothing industry. In order to further improve the teaching level and the quality of talent in the fashion design profession, it is necessary to combine the talent training objectives with the market demand, explore a new model of professional curriculum cooperative teaching method to cultivate comprehensive talents in the apparel industry with solid design theory knowledge, strong hands-on practical ability and high artistic aesthetic level.

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