

Factors influencing calligraphy satisfaction in Shandong

Universities

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Abstract

Calligraphy courses in colleges and universities not only cultivate students' knowledge of calligraphy theory and writing skills, but also expand students' cultural vision and increase their cultural confidence. Calligraphy course satisfaction is an important index to measure the level and quality of calligraphy teaching in schools. There are abundant educational resources in calligraphy courses in colleges and universities, and promoting the construction of calligraphy majors is conducive to giving full play to the unique and irreplaceable educational function of calligraphy courses. Based on the interview results of colleges and universities in Shandong Province, this paper analyzes the factors affecting the satisfaction of calligraphy courses in Shandong province, and puts forward countermeasures to improve the satisfaction of calligraphy courses, so that students can better appreciate the charm of calligraphy art and understand the connotation of traditional Chinese culture contained in calligraphy art. It is conducive to the inheritance and development of excellent traditional culture, and also conducive to the transportation of high-quality calligraphy professionals to the society.

Keywords: *calligraphy education; higher education; Interview; pedagogical issues; talent development*

Introduction

Shandong Province has a long culture of calligraphy and a profound history, and there are many outstanding calligraphers from Shandong Province, such as Yan Zhenqing, one of the "Four Great Masters of Regular Script", Zhang Xu, who is famous for his cursive script, and Wang Xizhi, who is known as the "Sage of Calligraphy". The "Lanting Preface" is also known as the "World's Best Running Script". Many foreign calligraphers, such as Su Shi, Ouyang Xiu, Fan Zhongyan, Fubi, Huang Tingjian, Mi Fu, Zheng Xie, Wang Shizhen, Kang Youwei, etc., also traveled to Shandong, leaving behind a large number of ink treasures in the land of Qilu, leaving the seeds for the development and transmission of modern Shandong calligraphy culture to take root.

Due to the differences in regional cultural traditions embodied by various calligraphers, the works of calligraphy in Shandong Province are diversified and make Shandong the epitome of China's calligraphy career. With the continuous development and transmission of calligraphy culture, most universities and hobby training institutions in Shandong Province offer calligraphy learning courses. The level of satisfaction with the calligraphy courses greatly reflects the teachers' understanding and mastery of calligraphy, and also reflects the transmission of calligraphy culture, and at the same time, the shortcomings in the learning process of calligraphy courses can be adjusted and corrected in time.

Literature Review

A search of the relevant domestic literature reveals that there are currently some difficult issues regarding calligraphy education.

Liu (2022) It was said: many schools do not pay much attention to calligraphy majors, they are not systematic enough in teaching, teaching resources are insufficient, teaching facilities and equipment and teaching environment need to be improved, campus culture atmosphere is not enough, employment in calligraphy is relatively narrow, students do not pay enough attention to calligraphy courses, calligraphy knowledge mastery and calligraphy skills connection is also insufficient, etc.

Chen (2020) It is said that calligraphy education in colleges and universities is dedicated to improving students' interest in learning and enhancing their calligraphy writing skills, but the current arrangement of calligraphy courses for students in colleges and universities lacks planning, holistic and professionalism, and the teaching objectives of calligraphy courses differ greatly from the actual teaching contents. Calligraphy courses should pay more attention to students' feeling ability and focus on students' calligraphy appreciation ability in teaching design.

Du (2019) It was stated that the teaching resources of calligraphy courses in colleges and universities are insufficient, the teaching system is not perfect, the teachers are weak, and the tools needed for teaching, such as practice paper and pens, do not meet the students' needs well. Teachers do not provide timely and effective feedback on students' work, and students' interest in learning is low, making the calligraphy course less satisfying.

Research significance

The paper examines the factors influencing the satisfaction of calligraphy courses in colleges and universities in Shandong Province based on the content of interviews.

The interviews will be conducted in five areas: the goal of offering a calligraphy course, the content of the calligraphy course, the way teachers instruct in class, teaching resources, and the evaluation of the calligraphy course, and the interview survey will be conducted from teachers to students, more comprehensively including the content related to the current stage of calligraphy

course learning.

During the interviews with teachers and students in colleges and universities in Shandong Province, we learned about the level of development and the current status of development of calligraphy courses in colleges and universities in Shandong Province, as well as existing problems, and based on the results of the interviews we can make suggestions for the development of calligraphy courses in Shandong Province.

Research Subjects

In this paper, we interviewed teachers and students from Qufu Normal University, teachers and students from Linyi University, and teachers and students from Shandong Institute of Arts and Crafts on "factors influencing the satisfaction of calligraphy in Shandong universities".

The study analyzed the factors influencing the satisfaction of calligraphy in colleges and universities in Shandong Province through five aspects: teaching objectives, teaching contents, teaching resources, teaching instruction and assessment.

Data Collection

Research Sample

The data in this study were obtained from interviews with teachers and students of Qufu Normal University, Linyi University, and Shandong Institute of Arts and Crafts in Shandong Province on the factors influencing satisfaction with calligraphy courses in Shandong Province. The interview questions were about "factors influencing satisfaction with calligraphy in Shandong universities" and "measures to solve the factors influencing satisfaction with calligraphy in Shandong universities", and the interviewees talked about teaching objectives, teaching content, teaching instruction, teaching resources and assessment.

Data Collation

The collected data were initially summarized and organized, and invalid samples were screened and eliminated to obtain the data for the study in the paper.

The data obtained were categorized to obtain the influencing factors and solution measures of teaching objectives, teaching resources, teaching instruction, teaching content and assessment in the satisfaction of college calligraphy courses. Based on the influencing factors and influencing measures obtained from the interviews, we analyzed the current situation of the development of college calligraphy courses and made suggestions for the development of college calligraphy courses.

Research Framework

Based on the results of the interviews, we explored the factors affecting the satisfaction of college calligraphy courses, analyzed the factors affecting the satisfaction of college calligraphy courses in the new era from five aspects: teaching objectives, teaching resources, teaching content, teaching instruction and assessment, and analyzed the solutions for higher satisfaction of college calligraphy courses in light of the development of the times and society. The study will analyze the solutions for higher satisfaction of college calligraphy courses in light of the development of the times and society.

Conclusions and findings

1. Factors influencing the course satisfaction of calligraphy teaching objectives in Shandong universities

Table 1 Effect of teaching objectives on satisfaction

| Topics | Frequency | Example |
|--|-----------|---|
| Solid theoretical foundation | 10 | Interviewee 1: Solid basic theory Interviewee 2: A solid foundation in calligraphy theory |
| Calligraphy creation and practical skills | 10 | Interviewee 14: Solid knowledge and skills in calligraphy education and the ability to create calligraphy |
| Cultivate application-oriented professionals | 7 | Respondent 6: Professional application talent Interviewee 16: Advanced Application Specialists |

As can be seen from Table 1, the main factors influencing the curriculum in terms of calligraphy teaching objectives are: learning a solid theoretical foundation, calligraphy creation and practical skills, and cultivating applied professionals.

Solid theoretical foundation

Among the interviewees, 10 mentioned the high degree of influence of cultivating students' solid theoretical foundation in the teaching objectives of calligraphy on satisfaction, and the interviewees talked about the training objectives of calligraphy as cultivating a comprehensive development of moral, intellectual, physical and aesthetic, solid basic theory, innovative spirit and practical ability, with the qualities of Yimeng spirit and international vision, systematic mastery of professional knowledge of calligraphy, strong professional skills and group cooperation The goal of the program is to train students with a solid understanding of basic theories, innovative and practical abilities, the spirit of Yimeng and an international perspective, systematic

knowledge of calligraphy, strong professional skills and the ability to cooperate in groups.

A solid theoretical foundation is a prerequisite and basic requirement for the learning and creation of calligraphy. Therefore, a solid theoretical foundation is an important factor in the satisfaction of calligraphy teaching goals in calligraphy courses, as well as in the construction of calligraphy courses in colleges and universities.

Li & Gao (2022) It was said: in the college calligraphy curriculum, whether it is a professional course in art or the improvement of Chinese character writing skills for teacher training students, it is necessary to focus on cultivating students' core competencies, tapping the school's high-quality resources, combining its own reality, grasping the key and difficult issues, and improving the course objectives, teaching contents, teaching methods, and teaching evaluation. Appropriately integrate elements of calligraphy culture curriculum thinking and politics, strengthen the study of calligraphy theory, pay attention to the connection between Mao et al. and hard characters, increase research activities, and comprehensively improve students' core competence in calligraphy.

Calligraphy creation and practical skills

Ten mentioned the high degree of influence of creative and practical skills on satisfaction, and respondents spoke of the pivotal role of calligraphy programs in building professional talent with superior creative skills.

The training objectives of calligraphy courses will directly feel the skills that students can learn and master. Reasonable training objectives can make students easily master the professional knowledge and theoretical skills they need to learn in a fun and educational environment, which has a pivotal role in students' future development. Therefore, the primary factor in the satisfaction of calligraphy courses in colleges and universities should be the training objectives of colleges and universities for calligraphy.

Liu (2022) It was said: applied colleges and universities cultivate calligraphy talents, which can serve the local cultural construction. Strengthen the cooperation between government and colleges, colleges and enterprises, colleges and various primary and secondary schools, colleges and communities, etc., sign internship and employment agreements, jointly cultivate and improve the comprehensive quality of calligraphy talents, and broaden the employment channels of calligraphy talents. Students with calligraphic expertise should have both calligraphic expertise and multidisciplinary knowledge, with comprehensive abilities to become complex talents who meet the needs of different positions.

Cultivate application-oriented professionals

Seven people mentioned the influence of cultivating application-oriented professionals on the satisfaction of calligraphy courses. This indicates that the goal of calligraphy teaching in colleges and universities should be based on cultivating students' solid theoretical foundation, calligraphy creation and practical skills, as well as calligraphy teaching should focus on cultivating applied professionals.

Highly qualified applied talents who can work in education, economy and other enterprises and management departments at all levels in calligraphy education, calligraphy creation and theoretical research, calligraphy and painting curation and other related fields, and who can adapt to the needs of regional economic and social development. A sound and reasonable training program is the key to student success and an important factor in student satisfaction with the calligraphy major program.

Zhu (2021) It is said that calligraphy course is a good carrier for students to understand Chinese traditional culture and an important way to enhance the humanistic quality of college students. By appreciating and studying classic calligraphic works from different historical periods, students are able to understand the spirit of Chinese culture embedded in them, thus enriching their minds, cultivating their temperament, establishing a correct aesthetic inclination, exercising their bodies and minds, and enhancing their own sense of national honor. Therefore, the quality education function of college calligraphy courses is multifaceted.

2. Factors affecting the satisfaction of calligraphy teaching resources on courses in Shandong Province universities

Table 2 Effect of teaching resources on satisfaction

| Topics | Frequency | Example |
|---|-----------|---|
| Strong faculty | 6 | Interviewee 14: Having an academic team with reasonable age, title and academic structure |
| Invite famous teachers to give lectures | 5 | Interviewee 19: Experts and participation in teaching activities and guiding students in various competition activities at all levels |
| Establishment of internship training base and research base | 5 | Interviewee 1: Building a comprehensive practice base |
| A special calligraphy classroom is available | 4 | Interviewee 2: Equipped with calligraphy art teaching adapted specifically to calligraphy, copying room, work make, professional exhibition hall and multimedia modern teaching equipment |

As can be seen from Table 2, the main factors influencing the curriculum of calligraphy teaching objectives are: having a special calligraphy classroom with strong resources, inviting famous teachers to give lectures, and establishing internships, practical training bases and research bases.

Strong Faculty

Among the interviewees, six mentioned that strong faculty in calligraphy teaching resources had a high impact on satisfaction, and that the teaching of calligraphy courses in colleges and universities should be strengthened with strong faculty, which is an important part of ensuring teachers' professional knowledge and theoretical and practical guidance for students. Respondents mentioned that the school's calligraphy program has a combined full-time and part-time faculty with high professional level and strong practical ability, and corporate industry experts participating in practical teaching, equipped with special practical training rooms and calligraphy and painting practical training rooms, and complete hardware and software facilities, which can better meet the needs of each of this program's on-campus practical teaching.

Liu et al. (2015) stated: in fact, professional and qualified calligraphy teachers are few and far between, and currently there are many private colleges and universities to solve the shortage of calligraphy teachers by hiring professional teachers outside the school to teach, and some even find professional teachers who are similar to calligraphy majors to teach. As a result of these problems, some of them do not guarantee the normal quality of teaching, from which many problems can arise, such as. Insufficient knowledge of the calligraphy profession. There are misconceptions in teaching methods, poor teaching results and other phenomena. Therefore, from the perspective of the construction of calligraphy courses in private colleges and universities, this problem should be solved in a timely manner, and school leaders and academic management departments should pay attention to the construction of calligraphy courses and other professional courses, and treat the issue of teachers' qualifications as seriously as other courses. The teacher should be equipped with professional teachers in order to teach students effectively and to provide them with a higher level of training.

Invite famous teachers to give lectures

Five respondents believed that inviting famous teachers to give lectures could improve the influencing factors of satisfaction with calligraphy teaching goals. Respondents noted that hiring experts with corporate industry backgrounds with participate in teaching activities and guide students to participate in various competition activities at all levels can better cultivate a solid

theoretical foundation in calligraphy, strong cultural and artistic literacy, calligraphy expertise, innovative spirit and entrepreneurial consciousness, and equip students with solid professional basic knowledge and skills in calligraphy creation.

With a professional teaching team and actively absorbing the excellent teaching experience and achievements of other institutions across the country, employing experts in calligraphy creation and theoretical research at home and abroad to hold lectures, and taking advantage of the very rich conditions of Shandong's regional inscription materials to make teaching and cultivation more distinctive. Employing renowned experts and scholars to hold special lectures not only enriches the information of teaching and research, but also greatly broadens the professional and cultural horizons of students.

Construction of a practical training base and a special calligraphy training room

Five people mentioned that the establishment of special training bases and research bases could enhance the satisfaction of teaching resources, and four people mentioned the establishment of special calligraphy classrooms to enhance the satisfaction of teaching resources.

The interviewees talked about the perfect teaching facilities and the beautiful teaching environment, which provide a strong guarantee for the smooth teaching of calligraphy majors. The various hardware and software facilities are well equipped to better meet the needs of calligraphy students' on-campus practical teaching.

Liu (2022) Said: Campus culture plays a vital role in student learning, and a good cultural atmosphere should be created when conducting calligraphy education, such as holding traditional calligraphy competitions, conducting activities such as calligraphy knowledge contests, and giving students extra points on comprehensive assessments or issuing prizes and certificates.

Hao (2021) It is said that multimedia teaching equipment brings convenience to calligraphy education college teachers should make the content of calligraphy education fully integrated with multimedia equipment to carry out more efficient calligraphy education activities. With the help of multimedia devices, college teachers can add pictures and videos corresponding to calligraphy to their courseware when conducting calligraphy education, presenting the course content to students in a more vivid form as a way to motivate students to learn calligraphy knowledge. The use of multimedia to present videos or materials can better stimulate students' interest in learning, as well as cultivate students' initiative in learning calligraphy and help them develop good learning habits.

3. Factors influencing the content of calligraphy teaching on course satisfaction in Shandong universities

Table 3 Effect of teaching content on satisfaction

| Topics | Frequency | Example |
|---|-----------|--|
| Calligraphy practice and writing skills learning | 13 | Interviewee 6: The teaching content is mainly to cultivate a high level of creative practice in calligraphy and seal carving |
| Study of theoretical knowledge of calligraphy | 9 | Interviewee 19: Relevant theoretical knowledge learning Interviewee 17: First of all, the content of theoretical calligraphy knowledge development |
| Improving literary quality and cultural literacy | 7 | Respondent 15: Content of humanistic and aesthetic skills development for students |
| Research and discussion on the history of calligraphy | 7 | Interviewee 13: Understanding the change in connotation of calligraphy from the ancient shifu environment to the present-day disciplinary framework, and clarifying the content and direction of study |

As can be seen from Table 3, the main factors influencing the content of calligraphy instruction on the curriculum are: improving literary and cultural literacy, learning theoretical knowledge of calligraphy, learning calligraphy practice and writing skills, and research and discussion of the history of calligraphy.

Calligraphy practice and calligraphy technique learning

Thirteen people mentioned that calligraphy practice and learning calligraphy skills enhance satisfaction with teaching resources. With more than 50% of the total number of respondents, calligraphy practice and learning calligraphic skills have a high impact on satisfaction in the content of instructional courses and are the main content of calligraphy courses in colleges and universities. Respondents noted that professional foundation courses in calligraphy teaching are designed to shape students to form the basic competencies of the calligraphy discipline. The main professional courses cover theoretical courses such as paleography, calligraphy aesthetics, ancient calligraphy theory, and the history of Chinese calligraphy education, along with compulsory professional courses that further deepen learning based on the professional foundation courses, such as the practice of line calligraphy creation, the practice of cursive

calligraphy creation, thematic studies of classic stelae and posters, the foundation of Chinese painting, the study of calligraphy, and calligraphy curriculum and pedagogy, to shape students' comprehensive and solid skills and calligraphy. The curriculum fully reflects the characteristics of the program, which combines theoretical research with the creation of calligraphy and seal carving, and emphasizes the cultivation of calligraphy education.

Yang (2010) It is stated that the teaching of calligraphy course is based on the theoretical knowledge framework of Chinese calligraphy history, calligraphy aesthetics, calligraphy appreciation, and calligraphy theory of all generations. The basic content of learning is the seal script, official script, regular script, running script, and cursive script; the focus of learning techniques is the use of strokes, knots, and chapters of various calligraphic styles; and the core of teaching practice is the practice of tombstoning and creation, which intertwine to form the body of calligraphy teaching. At the same time, the study of calligraphy also involves a number of disciplinary areas, such as the tracing of calligraphic strokes to their origins, the appreciation of calligraphic works to calligraphic aesthetics, calligraphic criticism, general art theory, and Chinese art history, and the creation of calligraphic works to literature, philosophy, and art psychology. This rich array of disciplines in the art of calligraphy requires that the teaching of calligraphy should not be limited to the knowledge of calligraphy itself, but should also address the relationship with these disciplines, so that students can learn calligraphy while also acquiring knowledge of related disciplines.

Study of theoretical knowledge of calligraphy

Nine respondents noted the influence of learning theoretical knowledge of calligraphy on content satisfaction in calligraphy courses, and the respondents mentioned that the learning of calligraphy content begins with learning theoretical knowledge of calligraphy.

Interviewees pointed out that college calligraphy courses introduce the content, requirements and methods of learning calligraphy techniques, reinforce the development of competence as the main driver of copying training, and achieve purposeful technique training. It is important to make it clear to students that learning calligraphy techniques in college is different from the past, to focus on the development of skills, and to strengthen the purpose of training. The teacher guides the students to develop a new learning philosophy, where technique and theory are mastered simultaneously.

Through the history courses on the history of calligraphy and seal carving, students focus on cultivating the aesthetic ability of comprehensive analysis, linking theory to practice, and continuous optimization of the knowledge structure, mastering the knowledge of the evolution of calligraphic style, the evolution of technique, the development of style, the history of communication and the history of theory and criticism, and emphasizing the ability to study the

history of calligraphy and express the aesthetic and intellectual qualities of calligraphy and seal carving to meet the needs of society for calligraphic talents.

Improving literary quality and cultural literacy

Seven respondents noted the impact of improving literary quality and cultural literacy on content satisfaction in calligraphy courses, and the respondents mentioned that learning calligraphy lies in more than just calligraphic skills. The practice and learning of calligraphy must keep up with the times, and there is also a need to put the improvement of literacy above writing.

In the construction of the calligraphy curriculum, in addition to the learning of professional knowledge and skills, it is also necessary to emphasize comprehensive cultural quality, focus on cultural cultivation, and cultivate a comprehensive quality of professional talents.

Jin (2020) It has been said that calligraphy education in colleges and universities is not only the teaching of a skill, but also the inheritance and continuation of the Chinese culture. For every college student, it is a way to pass on the meaning of culture through individual professional learning and to receive an artistic education. There are many examples in history of people who have been changed by calligraphy, and by learning calligraphy, we can improve our personal skills and contribute to the revitalization of our culture. Currently, the love of calligraphy is essentially a love of our traditional culture, and so is the goal of calligraphy education in higher education.

Research and discussion on the history of calligraphy

Seven respondents noted the influence of research and discussion of the history of calligraphy on content satisfaction in calligraphy courses, and respondents mentioned that focusing on the study and learning of the history of calligraphy inspires students to be interested in the history of calligraphy.

Through the content of the history of calligraphy and the study of calligraphy theory, students are guided to learn to learn independently, to understand that calligraphy is more than just writing, to make students understand the change in connotation of calligraphy from the ancient scholarly environment to the present day construction of the discipline, and to be clear about the direction in which students should strive for the study of calligraphy.

Jin (2020) It is said: writing is the basic language of every country and nation, and Chinese characters are only found in China. Chinese characters have been developed and evolved with the history of Chinese civilization for five thousand years. Chinese characters have recorded the development of a country's culture and history, and have recorded the content of knowledge, culture, information, academics, and other aspects. Calligraphy is a form of art that uses Chinese

characters as a carrier and is the main form of expression of Chinese characters. By learning the art of calligraphy, one can feel the connotation of ancient Chinese characters through their beauty and can deeply appreciate the wisdom of the ancient Chinese people and the kind of intentions of the Chinese craftsmen, thus enhancing national self-confidence and pride.

4. Factors influencing the satisfaction of calligraphy teaching instruction on the course in Shandong Province universities

Table 4 Effect of instructional guidance on satisfaction

| Topics | Frequency | Example |
|--|-----------|--|
| Meet the requirements of today's social development for human resources training | 6 | Interviewee 20: Integrating traditional culture and modern civilization to meet the requirements of today's social development for talent training |
| Learning with online resources | 5 | Interviewee 16: Use of online resources for learning and skills training, effective training through a combination of online self-study and on-site training |
| Inheriting the Excellent Traditional Art of Calligraphy | 4 | Interviewee 12: Emphasis on the foundation of Chinese studies, cultural cultivation, inheritance and promotion of calligraphic culture and the art of calligraphy |
| Reinforcing guidance and inspiration for classmates | 4 | Interviewee 3: Teaching adopts the principle of combining theory and practice, and uses topics or lectures to strengthen the guidance and inspiration for students |

As can be seen from Table 4, the main factors that influence the curriculum of calligraphy teaching instruction are: inheriting the excellent traditional art of calligraphy, using online resources for learning, meeting the requirements of today's social development for talent training, and strengthening the guidance and inspiration for fellow students.

Meet the requirements of today's social development for human resources training

Six of the interviewees mentioned the influence of meeting the requirements of today's social development for talent training on satisfaction with calligraphy courses, for example, interviewee 20 mentioned: integrating traditional culture and modern civilization to meet the requirements of today's social development for talent training.

Yang (2010) The five calligraphic styles - seal script, official script, regular script, running

script, and cursive script - are used as the basic learning content, and the techniques of calligraphy - brushwork, knotting, and chapter - are used as the main elements of learning, while the skills of tombstoning and creation are the core of practical training. Each stage has its own training topics and requirements, and different training methods can be used, for example, the primary stage is focused on the proscenium, the intermediate stage is focused on poems, songs and quotations, and the advanced stage is focused on the creation of works of different sizes and styles. At the same time, the diversity of training methods should also be combined with students' learning methods, such as problem-solving learning, case study method, etc. Training methods that can be suitable for students' inquiry learning should be the best methods.

Learning with online resources

Five respondents mentioned the use of online resources for learning, and respondents noted the use of online resources for learning and skills training, and effective training through a combination of online self-study and on-site training.

Li & Gao (2022) It has been said: students' horizons are infinitely expanded, knowledge reserves are no longer the focus in teaching and learning, what students need more is to enhance their independent learning ability and learn to learn, which makes it necessary for curriculum reform to fully explore and utilize information technology, such as: using platforms such as MU class, actively promoting the reform of online and offline hybrid teaching methods, especially to strengthen the design of research-based learning activities.

Reinforcing guidance and inspiration for classmates

Five interviewees mentioned strengthening the guidance and inspiration of students. The interviewees talked about the principle of combining theory and practice in teaching, using special topics or lectures to strengthen the guidance and inspiration of students, teaching the knowledge and techniques of excellent Chinese traditional culture in a way that is pleasing to students; finally, combining what students see in their daily lives with calligraphy demonstrations to strengthen the inspiration of students, focusing on the humanities and aesthetic ability of students. The course is designed to meet the needs of society by combining the characteristics of the local economy and industrial structure and the demand for talents, and by combining the curriculum with the characteristics of the calligraphy major; taking a combination of compulsory and optional courses, and offering corresponding courses according to the needs of the training direction.

Ding (2018) It was said: the amount of class time and the semester in which the course is offered can be increased to ensure sufficient time for study and training. Establish a calligraphy teaching and research department, which will work together to revise the complete syllabus and examination syllabus to make the training system more complete. The content and practice of the classes should be adjusted to the needs of different majors, e.g., the courses for preschool

education and elementary education majors should be designed differently. We will offer multiple semesters of elective courses in the art of calligraphy, so that students will have classes to choose from in addition to their basic classroom studies, so that they will have more training and extend their artistic developmental specialties.

Inherit the excellent traditional calligraphy culture

Four mentioned inheriting excellent traditional calligraphic culture, and the interviewees noted the emphasis on the foundations of Chinese studies, the importance of cultural cultivation, and the inheritance and development of calligraphic culture and the art of calligraphy.

Bai (2022) It was said: calligraphy is the treasure of excellent Chinese traditional culture and art, and in today's world where Chinese and Western cultures collide and mingle, maintaining the roots of Chinese calligraphy culture is crucial to promoting excellent Chinese traditional culture and promoting its creative transformation and innovative development. With the rapid development of technology, the popularity of the Internet, and the profound changes in the way modern information is exchanged, calligraphy has moved away from being practical, and the historical culture and humanistic spirit it contains has taken on the important task of enhancing the cultural self-confidence of the nation and raising the international influence of traditional Chinese culture.

5、 The factors influencing the satisfaction of the course by calligraphy assessment (evaluation) in Shandong Province universities?

Table 5 Impact of assessment on satisfaction

| Topics | Frequency | Example |
|--|-----------|---|
| Mutual assessment among students | 6 | Interviewee 2: Establish study groups and conduct mutual evaluation |
| The teacher assesses the student | 5 | Interviewee 16: Assessment of students' overall learning through their usual performance and attitude as well as students' work |
| Establishing a fair assessment mechanism | 3 | Interviewee 12: Establishing a reasonable and fair way to evaluate teachers |
| Calligraphy competition | 3 | Interviewee 15: Motivating students to create calligraphy through calligraphy works |
| Self-assessment | 2 | Interviewee 1: Student self-evaluation against analysis and comparison |

As can be seen from Table 5, the main factors that influence the assessment of calligraphy teaching on the curriculum are: self-assessment, mutual assessment among students, establishment of a fair assessment mechanism, assessment of students by teachers, and assessment by conducting calligraphy competitions.

Mutual assessment among students

Six of the interviewees mentioned the influence of mutual assessment among students on their satisfaction with the calligraphy course, for example, interviewee 2 mentioned: establishing study groups and conducting mutual assessment among students. Through students' mutual assessment, they can learn from their classmates' strengths and make up for their own weaknesses.

The teacher assesses the student

Five interviewees mentioned teachers' assessment of students. The interviewees talked about how teachers can improve students' enthusiasm for learning through comprehensive assessment of students' assignments, attitudes, etc. The interviewees talked about that in educational assessment, a variety of assessment methods should be used flexibly in conjunction with teaching needs, and self-assessment and mutual assessment can be used in the assessment process. A fair assessment and evaluation mechanism is established to assess students' learning through the final assessment, and a sound and fair teacher evaluation mechanism is established to ensure that they treat each student fairly and impartially. Teachers give students different levels of evaluation according to their attitudes and emotions in the learning process and specific details in their writing practice, as well as their ability to use their skills.

Peng & Yi (2021) It is stated that: teacher evaluation is the core part of teaching evaluation. The final end-of-semester grade evaluation of a calligraphy student was diversified, and the instructor's evaluation was only one of the important components that accounted for the greatest weight. After the implementation of diversified evaluation by the calligraphy faculty, students in these classes greatly recognized the results of teaching evaluation and had a significant increase in their learning initiative.

Calligraphy competition

Three people mentioned conducting calligraphy competitions, with respondents noting the use of mini-essays, combined with regular assignments, to comprehensively assess learning in the calligraphy course, to conduct competitions for calligraphy works, to learn from other students' good calligraphy skills and innovative points, and to find their own shortcomings in the calligraphy competition.

Peng & Yi (2021) It was said: actively promote the exploration and practice of teaching evaluation reform, and give full play to the role of calligraphy teaching and research office in

teaching quality monitoring and supervision. Involving students in the evaluation of calligraphy courses, students can not only conduct self-assessment and mutual evaluation, but also evaluate teachers' course teaching. Teachers put the converted component values of student self-assessment and mutual assessment into the students' final grades with appropriate weights, avoiding one-sidedness and subjectivity in evaluating students, and, at the same time, through the feedback from students in evaluating the course.

Conclusions and Recommendations

Conclusion

1、 Solutions to the factors influencing the satisfaction of calligraphy teaching objectives on courses in Shandong Province universities

The solutions to the factors influencing the course satisfaction of calligraphy teaching objectives in Shandong Province colleges and universities mainly focus on combining professionalism and interest, cultivating students' comprehensive quality, responding to the requirements of the times and the development of the era, and fostering students' innovation and creativity.

The specification requirements of both professional setting and talent training should be close to the characteristics of local economy and industrial structure and the situation of talent demand. In the curriculum system, the curriculum must be set with clear objectives and a clear structure. That is, for students' knowledge level, technical level, ability level and comprehensive literacy level, there are clear distribution. Optimization in terms of class time rationing and chronological articulation It is necessary to determine the reasonable ratio of theoretical and practical courses, public and professional courses, planned and independent courses by dissecting the training program and adjusting them in a timely manner according to the needs of the times.

2、 The solution to the influence of calligraphy teaching resources on course satisfaction in Shandong universities

The solutions to the factors influencing the satisfaction of calligraphy teaching resources on the course in Shandong universities mainly focus on establishing a network information platform, strengthening the construction of teachers, inviting professional scholars to give lectures, cooperating with social enterprises or other universities, sharing resources, and introducing multimedia teaching equipment.

Ren (2019) It has been said: the good or bad teaching conditions affect the teaching results to a certain extent. Due to the special nature of calligraphy, in addition to some hardware facilities that should be available, multimedia teaching, libraries, museums including a large number of printed realistic and even original reference materials are necessary materials, in addition to this colleges and universities should plan and establish as soon as possible the specification of

teaching equipment for college calligraphy majors, the tuition fees paid by students should be used for students, to equip the calligraphy majors with suitable necessary tables and chairs media, calligraphy and painting pro tomb room, framing In addition to this, colleges and universities should plan and establish specifications for the equipment used to teach calligraphy in colleges and universities.

3、 The solution to the influence of the content of calligraphy teaching on course satisfaction in Shandong Province universities

The solutions to the factors that influence the content of calligraphy teaching on course satisfaction in Shandong universities focus on promoting traditional Chinese culture, guiding students' personality expansion and artistic innovation, calligraphy creation and appreciation, and strengthening skill training.

With the aim of adapting to the future needs of society, we teach the knowledge and techniques of Chinese traditional culture in the classroom in a way that is pleasing to the students. First of all, students will know the historical development process of calligraphy, the important place it occupies in the development of human art as a whole, and what the aesthetic value of the art of calligraphy is, not what ideological content is contained in it. So we need to let students know what calligraphy is. We want students to know what role it has played in history.

Bai (2022) It is said that, according to its own advantages and characteristics, the teaching content of general education of calligraphy in colleges and universities is divided into four modules: one is the history of Chinese calligraphy, the second is the appreciation of classic Chinese monuments and stelae, the third is the practical experience of calligraphy copying, and the fourth is the creation of calligraphic works. The different types of courses can expand the field of calligraphy aesthetic education, strengthen the integration of theoretical teaching and practical experience, and build and gradually improve the "basic knowledge, core literacy, special strengths" of the calligraphy aesthetic education curriculum system.

4、 Solutions to the factors influencing the satisfaction of calligraphy teaching instruction on the course in Shandong Province universities

The solutions to the factors influencing the course satisfaction of calligraphy teaching instruction in Shandong universities focus on advocating diversified teaching instruction, personalized instruction on students' creative strengths and weaknesses, stimulating students' interest in learning, and teachers' classroom lectures on calligraphy to guide students' independent learning.

Calligraphy education is about simplifying the complex and esoteric theories and practices of

calligraphy, allowing students to fully and profoundly experience the joy they contain, giving them the initiative to learn, and fully mobilizing their learning initiative. Calligraphy begins with the use of the brush, is based on structure, becomes a chapter, and is beautiful in its rhythm.

5、 Solutions to the factors influencing the satisfaction of the course by calligraphy assessment (evaluation) in Shandong Province universities

The solutions to the factors influencing the satisfaction of calligraphy assessment on the course in Shandong universities mainly focus on the evaluation in the form of work reporting, timely feedback of the assessment content, strengthening the communication between students and teachers, and evaluation by essay writing.

Theoretical courses in calligraphy allow students to master the basics, and at the same time, students are regularly required to write short essays to improve their overall literacy skills.

The assessment of the technique course can be carried out in the form of work report exhibition, the presentation of the final work is a display of the semester's learning achievements, which can motivate students to create their works, and the exhibition effect is conducive to mutual learning and common progress among students.

Recommendation

1. Suggestions on the factors influencing the satisfaction of the course on the teaching objectives of calligraphy in Shandong Province universities

Suggestions for factors influencing course satisfaction with the objectives of calligraphy teaching in Shandong universities

Combining the development trend of the times, adding new goals that are in line with the development of the times, focusing on students' innovation and entrepreneurship and practical ability cultivation, the curriculum should follow a combination of professionalism and interest, where students are trained in systematic skills as well as systematic study of calligraphy theory, with a certain ability to research and create calligraphy, and cultivate students' comprehensive quality.

The number of courses within the teaching plan should be optimized, core courses and related courses and extension courses should be established, and the actual needs of students should be taken into account, so that professional knowledge and their own interests can be combined. In the curriculum system, whether in terms of the structural model of the system, the choice of professional direction, the total number of hours and the ration of class time, the overall development and individual differences of students should be fully considered, so as to cultivate a

solid foundation of calligraphy theory, a Strong cultural and artistic literacy, specialized skills in calligraphy, innovative spirit and entrepreneurial consciousness, and solid professional basic knowledge and skills in calligraphy creation.

2. Suggestions on the factors influencing the satisfaction of calligraphy teaching resources on courses in Shandong Province universities

Suggestions for factors influencing course satisfaction with calligraphy teaching resources in Shandong universities

Any scientific curriculum system can not leave the basic resources to protect, first of all, the teacher team to protect. At present, there is no lack of teachers who can teach theory, what is lacking is the "dual-teacher" teachers who understand both theory and technology and application.^[4] The lack of "dual-teacher" teachers who understand both theory and technology and application. We should encourage teachers to go to the front line of practice to understand the production process and application technology, and at the same time, we can also actively absorb a group of teachers who know technology to the school and classroom; at the same time, we should strengthen the exchange between institutions and enterprises, so as to truly shape a group of excellent teachers who can adapt to the application-oriented talents.

Yang (2012) It was said: strengthen the construction of teachers, increase the introduction of calligraphy doctoral efforts, improve the introduction of doctoral treatment, as China's calligraphy doctoral talent shortage, can introduce well-known institutions of outstanding calligraphy master's degree, to organize teachers from time to time out of training, strengthen external exchanges, improve teaching, scientific research, creative level. Employing well-known experts and scholars from other institutions as visiting professors, inviting nationally renowned calligraphy education majors to the school from time to time to conduct lectures, or teaching lecturers on a part-time basis, will not only enrich students' professional academic knowledge, broaden their horizons and increase their insight, but also strengthen teaching and academic exchanges among teachers.

3. Suggestions on the factors influencing the content of calligraphy teaching on course satisfaction in Shandong universities

Suggestions for factors influencing the content of calligraphy instruction on course satisfaction in Shandong universities

The content of calligraphy should be integrated with the history, reality and future development of the school. In the past, the content of calligraphy was taught in a history-based, unstaged manner, and students were taught from elementary school through college in one

period. One disadvantage of this approach is that it tends to create a kind of learning inertia in students. Therefore, some new content can be added to the calligraphy curriculum to make students understand that Chinese calligraphy is an ancient yet young discipline that requires constant study and exploration, and to stimulate their strong interest in learning calligraphy. Currently, the state advocates Chinese culture and national education, and the promotion of classical culture in traditional culture should be placed in an important position to grasp.

Wang (2020) It is a good opportunity for the students to learn calligraphy. Since calligraphy is one of the subjects in the catalog of higher education, many excellent applied colleges and universities can cultivate a large number of calligraphy professionals for China by virtue of their profound schooling and resources, These professionals have a wide range of professional knowledge and skills, as well as cultural, humanistic, and creative abilities, which will not only help them in future calligraphy creation and theoretical research, but also in calligraphy teaching and calligraphy art related education or management, effectively promoting the succession and development of the calligraphy profession.

4. Suggestions on the factors influencing the satisfaction of calligraphy teaching instruction on the course in Shandong Province universities

Suggestions for factors influencing course satisfaction of calligraphy teaching instruction in Shandong universities

We advocate diverse teaching guidance, personalized instruction on the strengths and weaknesses of student creation, stimulating students' interest in learning, and teacher classroom lectures on calligraphy to guide students' independent learning.

The teacher writes on the spot in class while explaining the conception of calligraphy chapters and the usage of creation, impressing students with beautiful things, inspiring them with excellent works, and cultivating them with noble sentiments, so that they can taste the sweetness of learning calligraphy, feel the charm of the art of calligraphy, and stimulate their interest in learning.

From a single mode of teaching to a multi-channel and multi-path approach, we make full use of platforms such as professional calligraphy websites, student QQ groups and online classes, and use classroom exchanges and discussions to teach close to students' calligraphy level, using diversified teaching methods.

5. Suggestions on the factors influencing the satisfaction of the course in the assessment (evaluation) of calligraphy in Shandong universities

Suggestions for factors influencing course satisfaction in calligraphy assessment in Shandong universities

In order to let students really learn and reflect the effect of the assessment, we must strengthen the feedback of the assessment results. The assessment process and results will be analyzed in a report, from the course to the class and then to each student, and feedback will be given to the students on the analysis results and problems, so as to analyze and improve the problems together. The communication between teachers and students is strengthened to help students absorb and understand the knowledge.

The assessment of the technique course can be carried out in the form of work report exhibition, the presentation of the final work is a display of the semester's learning achievements, which can motivate students to create their works, and the exhibition effect is conducive to mutual learning and common progress among students.

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Annexes

1、Interview raw data coding

Question 1: What are the factors influencing the satisfaction of calligraphy courses in colleges and universities in Shandong Province?

Q1: What are the factors influencing course satisfaction with the objectives of teaching calligraphy in Shandong universities?

| NO | Answer |
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| 1 | The training objective of the major of calligraphy is to cultivate high-quality applied talents with comprehensive development of moral, intellectual, physical and aesthetic, solid basic theory, innovative spirit and practical ability, strong professional skills and the ability to cooperate in groups, and adapt to the needs of regional economic and social development. |
| 2 | Cultivate a solid theoretical foundation in calligraphy, strong cultural and artistic |

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| | literacy, calligraphy expertise, innovative spirit and entrepreneurial consciousness. Possess solid basic knowledge and skills in calligraphy creation |
| 3 | Students are able to learn and master skills with reasonable training objectives that enable them to easily master the professional knowledge and theoretical skills they need to learn in a fun and educational environment |
| 4 | Comprehensive development of moral, intellectual, physical and aesthetic, solid basic theory, innovative spirit and practical ability |
| 5 | Develop a solid foundation in calligraphy theory and basic professional knowledge and skills |
| 6 | Cultivate professional and applied talents with broad professional knowledge of calligraphy disciplines, strong professional skills in calligraphy, and the ability to communicate and teach calligraphy |
| 7 | Cultivate professional talents with solid professional foundation and excellent creative ability, and high quality talents with profound traditional cultural heritage and artistic innovation ability. |
| 8 | Fostering the formation of students' knowledge and values and the development of their practical skills |
| 9 | Cultivate a solid basic theory, basic knowledge and basic skills in calligraphy |
| 10 | Applied talents who can engage in calligraphy teaching and research, calligraphy creation, calligraphy criticism, calligraphy appreciation, etc. in enterprises, institutions and administrative departments in calligraphy and its adjacent fields, and have the ability to further study or learn independently. |
| 11 | Learn the basic theory, basic knowledge and basic skills of calligraphy, master the basic methods of calligraphy creation and educational theories, and develop good calligraphy teaching and application skills. |
| 12 | To develop the basic abilities and qualities of students to adapt to the business work of adjacent professions. |
| 13 | Study the history and theory of calligraphy, calligraphy techniques and related disciplines |
| 14 | Cultivate solid knowledge and skills of calligraphy education and calligraphy creation, as well as basic knowledge and skills of basic art education |
| 15 | Master the basic theory, basic knowledge and basic skills of calligraphy, and have good Chinese cultural literacy |
| 16 | Senior applied professionals who can work in various schools at home and abroad in calligraphy education and creative research |
| 17 | A solid foundation in calligraphy theory, mastery of the techniques of copying and creation of various calligraphic styles, and familiarity with the history and literature of Chinese calligraphy (seal carving) are required. |

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| 18 | Students should have solid basic skills in calligraphy and be proficient in the ability to copy and analyze the techniques of the core monuments and posters in seal script, cursive script and running script. |
| 19 | Cultivate senior specialists in artwork production, management and administration with a focus on calligraphy research and creation, as well as economic and management skills. |
| 20 | Students will develop their literary and historical skills and their basic ability to create and research calligraphy, with emphasis on the teaching and training of their practical abilities. |

Q2: What are the factors influencing the course satisfaction of calligraphy teaching resources in Shandong universities?

| NO | Answer |
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| 1 | The discipline has comprehensive art workshops, cultural and creative studios, art museums, the CFA Painting Institute and other practice bases to provide students with a good operating platform. |
| 2 | Equipped with calligraphy art teaching special calligraphy, copying room, work to make, professional exhibition hall and multimedia modern teaching equipment, as well as "calligraphy art training center""Han tablet research institute""modern engraving research institute "The school is also equipped with scientific research institutions. |
| 3 | Strong faculty, with a reasonable academic team in terms of age, title and academic structure |
| 4 | By employing experts with corporate industry backgrounds to participate in teaching activities and guide students to participate in various competitions at all levels, we can better train students with a solid foundation in calligraphy theory. |
| 5 | With a professional teaching team and a unique teaching style |
| 6 | Actively absorbing the excellent teaching experience and achievements of other institutions nationwide, employing experts in calligraphy creation and theoretical research at home and abroad to hold lectures, and already making full use of the very rich conditions of Shandong's regional inscription materials to make teaching and cultivation more distinctive. |
| 7 | More than 50 famous and renowned experts and scholars were invited to hold more than 80 special lectures, which not only enriched the information of teaching and research, but also greatly broadened the professional and cultural horizons of students. |
| 8 | We have a strong teaching staff and abundant teaching resources, and have set up a |

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| | teaching system with the core courses of calligraphy copying and creation, seal carving copying and creation, history of calligraphy, history of seal carving, calligraphy and ancient script, etc. |
| 9 | The introduction of three leaders and academic backbones of calligraphy disciplines and six PhDs in calligraphy has increased the pace of high-level talent building, laying a solid foundation for higher calligraphy art education and research. |
| 10 | The school takes the construction of studio teaching team as the carrier, takes the course group as the basic teaching unit, inherits and innovates the "teacher-apprentice teaching" model, integrates internal and external resources, builds the "master-brother forum", carries out "online and offline "The school has built a new model of training applied calligraphy talents by integrating the majors of literature, history and art. |
| 11 | The school's calligraphy program has a combination of full-time and part-time faculty with high professional level, strong practical ability and participation of experts from enterprises and industries in practical teaching |
| 12 | Equipped with a special training room and a painting and calligraphy training room, complete with hardware and software facilities |
| 13 | Two provincial practice teaching bases, four professional laboratories, two municipal internship bases and eight on-campus training sites have been built. |
| 14 | We have an academic team with reasonable age, title and academic structure. There are 2 professors, 3 associate professors, 5 lecturers and more than 20 master students in the faculty. |
| 15 | With a complete and reasonable teaching system and strong teaching staff |
| 16 | Organize calligraphy activities and competitions, and invite famous teachers to give lectures |
| 17 | Take advantage of the campus's location in Qufu, fully exploit the cultural resources of Qilu calligraphy, and deeply integrate them into the curriculum teaching, internship and practical training. |
| 18 | Two national research bases were established: the Key Laboratory of Chinese Painting and Calligraphy Theory and Creation of the Ministry of Education and the "Demonstration Base of Chinese Traditional Culture and Art Teaching". |
| 19 | We employ experts with corporate backgrounds to participate in teaching activities and guide students to participate in various competitions at all levels to better cultivate a solid foundation in calligraphy theory. |
| 20 | Establishing a dedicated calligraphy classroom for immersion in the charm of calligraphy |

Q3: What are the factors influencing the content of calligraphy teaching on course satisfaction in Shandong universities?

| NO | Answer |
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| 1 | The professional foundation courses include seal script, clerical script, running script, regular script, cursive script, seal carving, history of Chinese calligraphy, history of Chinese art, ancient Chinese language, and calligraphy pedagogy, which aim to shape students to form the basic abilities of the discipline of calligraphy. |
| 2 | The main courses of the program cover theoretical courses such as ancient calligraphy, aesthetics of calligraphy, ancient calligraphy theory, history of Chinese calligraphy education, etc. At the same time, it also covers the practice of creating walking calligraphy, practice of creating cursive calligraphy, thematic study of classical monuments and posters, foundation of Chinese painting, study of calligraphy, calligraphy curriculum and pedagogy, etc. on the basis of professional foundation courses, and further deepen the study of professional compulsory courses to shape students' comprehensive and solid skills and calligraphy education. The course is designed to build students' comprehensive and solid skills and education. |
| 3 | Specialized orientation courses covering calligraphy curriculum standards and textbook research, philosophy of art, Chinese calligraphy and culture, dissertation instruction, calligraphy criticism, etc. |
| 4 | The way of calligraphy is not only about writing skills, but also about the skill of being a "calligrapher". The practice of calligraphy and learning must progress at the same time, even to the point of putting the improvement of academic literacy above writing. |
| 5 | Emphasis is placed on the foundation of Chinese studies, cultural cultivation, the combination of theory and practice, foundation and individuality, synthesis and specialization, forming a college-specific higher calligraphy education teaching department. |
| 6 | The teaching content is mainly to cultivate specialists with high capacity for creative practice and academic research in calligraphy and seal carving. |
| 7 | Courses are offered to cultivate talents with basic qualities of calligraphy culture, high practical ability of calligraphy and seal carving creation, theoretical research ability and appreciation of calligraphy. |
| 8 | College education emphasizes building a foundation. In comprehensive literacy emphasizes the learning and inheritance of traditional culture. In theory, it emphasizes the combination of theory and practice, and drives practice with |

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| | theory. In terms of technique, the emphasis is on formal, traditional and comprehensive skill mastery |
| 9 | Introduce the content, requirements and methods of learning calligraphy techniques, and reinforce the development of ability as the main driver of copying training, to achieve purposeful technical training. |
| 10 | Make it clear to students that learning calligraphy techniques in college is different from the past, focus on the development of abilities, and strengthen the purpose of training |
| 11 | Mainly introduce the content, requirements and methods of learning the history and theory of calligraphy, and guide students to learn |
| 12 | Emphasis will be placed on the study of the history and theory of calligraphy, instructing students in the methods of study, guiding them to read relevant historical research articles outside of class, and cultivating their interest. |
| 13 | Introduction to the discipline of calligraphy, so that students can understand the changes in the connotation of calligraphy from the ancient scholars' environment to the disciplinary framework of today, and clarify the content and direction of study |
| 14 | Introduce the structure of the discipline of calligraphy, so that students understand that calligraphy is more than just writing |
| 15 | Focus on the cultivation of humanistic quality and aesthetic ability of students and on the cultivation of professional skills of students |
| 16 | Building calligraphy as a specialized course to develop students' cultural literacy in calligraphy |
| 17 | The first is the development of theoretical knowledge of calligraphy, which is the basis for practice, and the introduction of the study and learning of the history and theory of calligraphy, to experience the charm of calligraphy in the study and development of calligraphy |
| 18 | The study of calligraphy theory and training of calligraphy techniques are important elements of calligraphy learning |
| 19 | The curriculum of the calligraphy major can be basically divided into courses on calligraphy techniques, theoretical courses on calligraphy, and general culture courses. Calligraphy is a unique traditional Chinese art, and is the art of writing Chinese characters, so it is important to offer courses in Chinese characters, writing, and literature. |
| 20 | From the viewpoint of the discipline of calligraphy itself, both theory and practice need to be taken seriously, and both occupy an important proportion in the arrangement of teaching contents |

Q4: What are the factors influencing the satisfaction with the course of teaching calligraphy instruction in Shandong Province universities?

| NO | Answer |
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| 1 | Taking advantage of the Internet age and using online resources for teaching, such as videos, e-magazines, etc. |
| 2 | Through the history of calligraphy and history of seal carving and other history courses, students focus on cultivating the aesthetic ability of comprehensive analysis, linking theory to practice, and optimizing knowledge structure, mastering the history of calligraphic style evolution, technique evolution, style development, communication and theoretical criticism, etc., and emphasizing the ability to study the history of calligraphy and expressing the aesthetic and intellectual qualities of calligraphy and seal carving to meet the needs of society for calligraphic talents |
| 3 | Teaching is based on the principle of combining theory and practice, using topics or lectures to strengthen the guidance and inspiration for students |
| 4 | The class teaches knowledge and techniques of Chinese traditional culture in a way that is enjoyable for the students; finally, it combines what the students see every day with a calligraphy demonstration to reinforce the inspiration for the students |
| 5 | Take full advantage of resources and learn to make better use of them in learning life |
| 6 | Enhancing connotations in cultural nourishment, inheriting and promoting calligraphy culture |
| 7 | We also set up a curriculum that combines the characteristics of the calligraphy profession, and adopt a combination of compulsory and optional courses, and offer courses according to the needs of the training direction, so as to cultivate calligraphy professionals who meet the needs of society. |
| 8 | Calligraphy classes should be offered in a gradual manner, not too difficult or too easy, and should be combined with practical lessons to strengthen the guidance for students. |
| 9 | Adding interesting contents or combining traditional calligraphy culture with modern aesthetics according to the characteristics of students in different grades to inherit and promote excellent traditional culture |
| 10 | Combination of online self-study and on-site training for effective teaching and learning, using online resources for guided student learning |
| 11 | Students in higher education can be more interested and motivated to learn by practicing calligraphy outside of class time and participating in calligraphy competitions. |

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| 12 | Emphasis on the foundation of Chinese studies, cultural cultivation, inheritance and promotion of calligraphic culture and the art of calligraphy |
| 13 | Strengthen skills training to meet the needs of today's social development for calligraphy professionals |
| 14 | Following the laws of art, there is a need for inheritance of artistic traditions, and calligraphy as art should be supported by cultural heritage |
| 15 | Calligraphy education should be a cross-cutting cultural and moral education, avoiding the mere technicalization of calligraphy education and meeting the needs of society for talent training |
| 16 | Learning and skills training using online resources, effective training through a combination of online self-study and on-site training |
| 17 | Focus on the humanistic quality and aesthetic ability of students, close to the characteristics of the local economy, industrial structure and the demand for talents |
| 18 | Influence the cultivation process with the concept that theoretical teaching is application-oriented and practical teaching is closely integrated with theory, and strengthen the guidance and inspiration for students |
| 19 | Direct students to online resources to make greater use of available learning |
| 20 | Integrating traditional culture and modern civilization to meet the requirements of today's social development for talent training |

Q5: What are the factors influencing the satisfaction of the course by calligraphy assessment (evaluation) in Shandong universities?

| NO | Answer |
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| 1 | Students analyze and compare against each other for self-evaluation |
| 2 | Establish study groups and conduct mutual evaluation |
| 3 | Students are given different levels of evaluation based on their attitudes and emotions during the learning process and specific details of their writing practice, as well as their ability to use their skills |
| 4 | Teacher's evaluation of students' writing quality and learning attitude through usual performance and calligraphy assignments |
| 5 | Establish a fair assessment and evaluation mechanism to assess students' learning through final examinations |
| 6 | A sound and fair evaluation mechanism for teachers to ensure that they treat each student fairly and impartially |
| 7 | Establish mutual evaluation among students, anonymous evaluation is more fair and credible |

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| 8 | Emphasis on student satisfaction evaluation and feedback on school programs |
| 9 | A comprehensive assessment of the calligraphy course in the form of a short essay, combined with the usual assignments |
| 10 | Students can evaluate each other and check if they have the same problem when they find others' problems |
| 11 | Teaching assessment by means of mutual evaluation among students |
| 12 | Establish a reasonable and fair teacher evaluation method to make a reasonable and fair evaluation of each student's calligraphy theory and practice |
| 13 | Students evaluate their own learning outcomes and engage in self-reflection |
| 14 | Establish a group assessment mechanism to check students' level of calligraphy learning through mutual group assessment |
| 15 | Conducting calligraphy competitions to motivate students to create calligraphy through calligraphy works |
| 16 | Assessment of students' overall learning through their usual performance and attitude as well as their work |
| 17 | Conduct self-evaluation among students and mutual evaluation among students |
| 18 | Conduct calligraphy competitions to learn from other students' good calligraphy skills and innovative points, and find their own shortcomings in the calligraphy competition |
| 19 | Students find out the shortcomings in their learning through group evaluation or mutual evaluation of each other's work |
| 20 | Motivating students through calligraphy competitions is also a good way to evaluate student learning |

Question 2: What are the measures to address the satisfaction of calligraphy courses in calligraphy colleges and universities in Shandong Province?

Q1: What are the solutions to the factors influencing the satisfaction of the course on the teaching objectives of calligraphy in Shandong Province universities?

| NO | Answer |
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| 1 | Optimization in class time ratios and chronological articulation. It is necessary to determine the reasonable ratio of theoretical and practical courses, public and professional courses, planned and independent courses by analyzing the training program and adjusting it timely in accordance with the needs of the times. |
| 2 | The number of courses within the teaching plan should be optimized, core courses |

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| | and related courses and extension courses should be established, and the actual needs of students should be taken into account, so that professional knowledge and their own interests can be combined |
| 3 | Based on the actual needs of students, systematically mastering the professional knowledge of calligraphy, having strong professional skills and the ability to cooperate in groups, and cultivating the comprehensive quality of students |
| 4 | To adapt to the needs of regional economic and social development as the training goal |
| 5 | Highly qualified applied talents in the art of calligraphy who can work in education, publishing, training, crafts, design and other related industries, teaching calligraphy, editing, framing, transmission, pottery and other related work |
| 6 | Cultivate a solid foundation in calligraphy theory, strong cultural and artistic literacy, calligraphic expertise, innovation and entrepreneurial awareness, and solid basic knowledge and skills in calligraphy creation |
| 7 | A broad professional knowledge of the subject of calligraphy, strong professional skills in calligraphy, a broader cultural perspective, and good overall quality and innovative ability |
| 8 | Practical senior professionals who can be competent in calligraphy creation, calligraphy theory research, calligraphy teaching and comprehensive application of calligraphy art. |
| 9 | Cultivate professional talents with solid professional foundation and excellent creative ability, high quality talents with deep traditional cultural heritage and artistic innovation ability |
| 10 | In the curriculum system, no matter from the structural mode of the system, the choice of professional direction, the total number of hours and the ratio of class time, etc., we should fully consider the overall development and individual differences of students, combining the major and their own interests |
| 11 | Cultivate comprehensive talents with solid knowledge and skills in calligraphy education and the ability to create calligraphy, as well as basic knowledge and skills in basic art education, with certain humanistic qualities, professionalism, and a high level of comprehensive talent |
| 12 | Senior applied professionals who can work in various schools at home and abroad in calligraphy education and creative research |
| 13 | Construct a reasonable ratio of teaching courses, respect the individual differences of students, and in the teaching objectives, different students can diversify their course choices, combining their own interests and development directions |
| 14 | In addition to a good undergraduate education, the master's degree in calligraphy has also been carried out in a healthy manner, and over the years has produced |

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| | many students with excellent professional research and creative abilities. |
| 15 | Combining the development trend of the times, adding new objectives that are in line with the development of the times, focusing on the cultivation of students' innovation and entrepreneurship and practical skills |
| 16 | Theoretical and practical teaching objectives, reasonable planning of the ratio of theoretical courses to practical courses, in line with the development needs and changes of the times |
| 17 | Cultivate talents with the ability to create and research seal carvings and the basic knowledge and skills required for calligraphy creation to meet the needs of society |
| 18 | Students are trained in systematic techniques as well as theories of calligraphy, and have the ability to research and create calligraphy to develop a comprehensive quality of students. |
| 19 | The curriculum should follow a combination of professionalism and interest, respecting students' interests and planning the proportion of theoretical and practical courses |
| 20 | In addition to the necessary professional knowledge, there should be more skillful and interesting elective courses, so that students can make their own choices and thus find a more suitable direction for their development |

Q2: What are the measures to solve the factors influencing the satisfaction of the course by teaching resources of calligraphy in Shandong Province universities?

| NO | Answer |
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| 1 | Establish a good network information platform, according to the needs of the talent training process, to achieve timely adjustment of the curriculum system through the computer management system and the network, and to ensure that the excellent curriculum resources of the whole school can be shared. |
| 2 | Actively absorb a group of teachers who know technology to the school and classroom, to strengthen the team of teachers and improve the construction of teachers |
| 3 | Strengthen the exchange between institutions and enterprises to truly shape a group of outstanding faculty who can adapt to the application-oriented talents |
| 4 | The concept should be advanced to influence the cultivation process with the concept that theoretical teaching is oriented to application and practical teaching is closely integrated with theory, and to make use of the characteristics of the Internet era to reasonably establish teaching theory |
| 5 | Introduction of multimedia teaching facilities and establishment of a calligraphy practice base to enrich students' theoretical knowledge and learn in a good |

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| | teaching environment |
| 6 | At present, there is no shortage of teachers who can teach theory, what is lacking is "dual-teacher" teachers who understand both theory and technology and application. |
| 7 | Strengthen the construction of faculty, increase the introduction of calligraphic doctors, and improve the introduction of doctoral treatment |
| 8 | Since there is a shortage of calligraphic doctoral talents in China, excellent master's degrees in calligraphy from well-known institutions can be introduced. We should organize occasional training trips for teachers to enhance outside exchanges and improve teaching, research and creation. |
| 9 | We employ renowned experts and scholars from other institutions as visiting professors, and from time to time invite nationally renowned calligraphy education majors to the school to conduct lectures or teach lecturers on a part-time basis, which not only enriches students' professional academic knowledge, broadens their horizons and increases their insight, but also strengthens teaching and academic exchanges among teachers. |
| 10 | Emphasis on the training of teachers, to create a teaching team, including teaching master teachers and master teacher workshops |
| 11 | Highlighting the educational characteristics of higher education institutions, introducing multimedia equipment, cultivating a "dual-teacher" teaching team with both theoretical and practical teaching abilities to guide students to improve their theoretical and practical skills, mainly reflected in the industry's vocational skills competitions have won a lot of success |
| 12 | We attach importance to professional construction, create a platform for talent cultivation including model professional points, teaching demonstration bases, talent training bases, innovation and invention education bases, etc., continuously strengthen industry exchanges, and lead professional development through innovation. |
| 13 | Teaching equipment is complete and advanced. The popularity of computers and the use of the Internet have provided the hardware to offer calligraphy courses in colleges and universities; multimedia teaching methods make calligraphy courses vivid and interesting, and can provide students with a better and more varied experience |
| 14 | Strong faculty. The calligraphy faculty at the university has strong professional backgrounds and abilities. In order to improve the level of teaching, we have implemented the strategy of "going out and coming in". |
| 15 | Invite outstanding calligraphy experts and famous teachers from all over the country to conduct calligraphy education lectures, increase students' knowledge, |

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| | strengthen cooperation between learning and enterprises, enrich students' after-school activities, and moreover, apply calligraphy theory to practical life |
| 16 | Strengthen the construction of calligraphy teaching facilities and introduce multimedia teaching equipment |
| 17 | Collaboration with socially relevant companies allows students to spend a lot of time in contact with calligraphy study and research |
| 18 | Collaborative schooling before colleges and universities, co-organizing calligraphy-related activities and competitions to enhance communication and cooperation among students |
| 19 | The popularity of the Internet has provided more teaching possibilities for college calligraphy courses, strengthening teaching equipment and providing students with more and richer experiences |
| 20 | Professional training is provided to calligraphy teachers to improve their professional competence and business level. For example, effective training is provided through a combination of online self-study and on-site training, and teachers bring the materials they need for their specialty when they go out |

Q3: What are the solutions to the factors influencing the content of calligraphy teaching on course satisfaction in Shandong universities?

| NO | Answer |
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| 1 | The content of calligraphy should be integrated with the history, reality and future development of the school to develop the cultural literacy of students |
| 2 | At present, the state advocates national culture and national education, and the promotion of classical culture in traditional culture should be placed in an important position to grasp. Therefore, we can include some classical content in the calligraphy curriculum. |
| 3 | Offer courses on ancient culture to improve students' own cultural cultivation and enhance the academic connotation of their creative works |
| 4 | Through practical courses such as copying and creation, we will improve the aesthetic ability of calligraphy, guide the development of personality and expand the innovative forms and concepts of art. |
| 5 | Mainly introduce the content, requirements and methods of learning the history and theory of calligraphy, guide students to learn to learn, pay attention to the usual reading, thinking, accumulation, the teacher focus on guiding the direction of reading and research requirements and methods, inspire students to study the history and theory of interest |
| 6 | The content, requirements and methods of learning calligraphy techniques, |

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| | strengthening the cultivation of ability as the main driving force of copying training, to achieve a purposeful technical training |
| 7 | Cultivate specialists with basic qualities of literature, history and modeling, and with high practical ability of calligraphy and seal carving creation, theoretical research ability and appreciation of calligraphy |
| 8 | The teaching philosophy of contemporary calligraphy education is centered on calligraphy, solid skill training, emphasis on comprehensive cultural literacy, close integration of writing and research, and equal emphasis on calligraphy and epigraphy |
| 9 | In addition to the professional foundation courses and major courses, there are also professional direction courses covering calligraphy curriculum standards and textbook research, philosophy of art, Chinese calligraphy and culture, thesis guidance, calligraphy appreciation, etc. |
| 10 | The way of calligraphy is not only about writing skills, but also about the skill of being a "calligrapher". The practice of calligraphy and learning must progress at the same time, even to the point of putting the improvement of learning above writing, otherwise, after writing to a certain level, calligraphy will not go up |
| 11 | The course covers the practice of writing cursive script, the practice of writing cursive script, the study of classical monuments and posters, the fundamentals of Chinese painting, the study of calligraphy, and the curriculum and pedagogy of calligraphy, cultivating students' independent thinking and guiding them to expand their personalities. |
| 12 | Combining theoretical research with calligraphy and seal carving creation, and emphasizing the characteristics of the school of calligraphy education capacity cultivation, cultivating students' personality expansion and artistic innovation |
| 13 | Shaping students' comprehensive and solid skills and literacy in calligraphy education, focusing on the development of students' creative and appreciative skills in calligraphy |
| 14 | Basic theoretical knowledge of calligraphy, basic skills and basic theoretical knowledge of calligraphy pedagogy, the ability to engage in calligraphy education in high and middle schools, the ability to conduct scientific research in the discipline of calligraphy education, the ability to create, appreciate and criticize calligraphy |
| 15 | Students mainly learn the basic theory, basic knowledge and basic skills of calligraphy, master the basic methods of calligraphy creation and educational theories, and develop good calligraphy teaching and application skills |
| 16 | Based on the art of traditional Chinese calligraphy and seal carving, re-examine and interpret national traditions, discover the cultural and artistic values of |

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| | calligraphy and seal carving in the contemporary context, and cultivate the formation of students' knowledge and values as well as the development of their practical skills |
| 17 | A broad professional knowledge of the discipline of calligraphy, strong professional skills in calligraphy, a broader cultural perspective, and good overall quality and innovative ability to be able to create calligraphy, research calligraphy theory, teach calligraphy, and teach the art of calligraphy |
| 18 | Seal Script Technique, Clerical Script Technique, Regular Script Technique, Running Script Technique, Cursive Script Technique, Seal Carving Technique, History of Chinese Calligraphy, Introduction to Ancient Calligraphy, Cursive Script Creation, Regular Script Creation, Seal Carving Creation |
| 19 | Solid theoretical foundation in calligraphy, strong cultural and artistic qualities, calligraphy expertise, innovative spirit and entrepreneurial spirit |
| 20 | History of calligraphy, history of seal carving, copying and creation of the five calligraphic styles and seal carving, study of creative techniques and forms, poetic metre, combining theory and practice |

Q4: What are the measures to solve the factors influencing the satisfaction of the course by teaching calligraphy instruction in Shandong Province universities?

| NO | Answer |
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| 1 | The teacher writes on the spot in the classroom while explaining the idea of calligraphy chapter and the usage of creation, impressing students with beautiful things, inspiring them with excellent works, and cultivating them with noble sentiments. |
| 2 | Take full advantage of resources to stimulate students' interest in learning calligraphy |
| 3 | Guide students to think actively, find ways to analyze and solve problems, and guide them to learn independently |
| 4 | Let students taste the sweetness of learning calligraphy, feel the charm of the art of calligraphy, and stimulate their interest in learning |
| 5 | Calligraphy education is a way to simplify the complex and profound theories and practices of calligraphy and to allow students to fully and deeply experience the joy contained therein, thus stimulating their interest in learning |
| 6 | Give the initiative of learning to students and fully mobilize their learning initiative |
| 7 | New content can be added to the calligraphy curriculum to make students understand that Chinese calligraphy is an ancient yet young discipline that requires constant learning and exploration, and to stimulate their strong interest |

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| | in learning calligraphy |
| 8 | Calligraphy begins with the use of the brush, is based on structure, becomes a chapter, and is beautiful in its rhythm. |
| 9 | The problem-based teaching method is used to teach, that is, to problematize calligraphy teaching and calligraphy knowledge, to stimulate students' awareness of problems, to guide them to learn independently, and to adopt a positive attitude towards these problems. |
| 10 | Shift from a single teaching model to a multi-channel and multi-path approach |
| 11 | PPT lectures on the basic theoretical knowledge of calligraphy, live writing demonstrations and coaching students on calligraphy creation |
| 12 | Make full use of the calligraphy professional website, student QQ groups and online classes and other platforms, using classroom exchanges, discussions and other close to the students' calligraphy level to teach, using diversified teaching methods |
| 13 | Individualized instruction for different students, individualized instruction for different students' works, individual explanation and instruction for different students' problems |
| 14 | Emphasize the ability to study the history of calligraphy and express the aesthetic and intellectual qualities of calligraphy and seal carving; enhance the aesthetic ability of calligraphy through practical courses such as copying and creation, and guide students to learn independently |
| 15 | Guiding students to read relevant historical research articles outside of class to cultivate their interest |
| 16 | Students are given a clear understanding of how learning calligraphy techniques in college is different from the past, focusing on the development of abilities, guiding students to learn independently, and strengthening the purpose of training. The teacher guides the students to develop a new learning philosophy, mastering both technique and theory |
| 17 | The teacher explains calligraphy techniques in the classroom while demonstrating the techniques with calligraphy creations, which is a great way to set the atmosphere of the classroom. |
| 18 | The university is more about developing students' independent learning skills and guiding them to read relevant materials outside of class to enhance their understanding of the subject of calligraphy |
| 19 | The teacher will combine different students' calligraphy works and give them individual guidance, which can help students find their own shortcomings faster and be able to improve faster. |
| 20 | The variety of teaching makes the calligraphy course lively and interesting, and can |

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| | provide students with a better and more varied experience |
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Q5: What are the measures to solve the factors influencing the satisfaction of the course by the assessment (evaluation) of calligraphy in Shandong universities?

| NO | Answer |
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| 1 | Motivate students by reporting their work |
| 2 | The assessment should be feedback-based. The question paper should increase the variety and flexibility of questions and avoid the memorization of mechanical knowledge points. |
| 3 | Assessment should be diverse and hierarchical, increase process assessment, and provide timely feedback on assessment content |
| 4 | The following aspects can be used as assessment criteria: classroom performance, the level of participation in the classroom, and the ability to motivate students to think positively |
| 5 | After-school assignments are a very important aspect of the calligraphy course. |
| 6 | In order to improve the professional technique, first of all, we must have a certain awareness of the ability, a large number of writing is a necessary prerequisite for awareness, there must be an accumulation of practice, in order to achieve a qualitative leap, so after-class assignments can be used as one of the conditions of professional assessment methods |
| 7 | Thesis writing, theoretical courses in calligraphy, allows students to master the basics while regularly requiring them to write short papers to improve their overall literacy skills. |
| 8 | The assessment of the technique course can be done in the form of a work report exhibition, and the final work of the final course is a demonstration of the learning achievements of the semester. |
| 9 | Enhancing communication between teachers and students helps students absorb and understand knowledge |
| 10 | The effect of the exhibition of calligraphy works is conducive to mutual learning and common progress among students |
| 11 | In order to let students really learn and reflect the effect of assessment, it is necessary to strengthen the feedback of assessment results |
| 12 | Finally, we should pay attention to the evaluation of students' satisfaction with the school curriculum and feedback |
| 13 | Strengthen the communication between students and teachers, and give feedback on learning in the communication |

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| 14 | To analyze the assessment process and results of the assessment, from the course to the class and then to each student, and to give feedback on the results and problems. |
| 15 | A portfolio presentation at the middle or end of the semester to assess students' learning and mastery of the course through their work |
| 16 | Assessment of the student's calligraphy theory and skills, and comprehensive assessment through the performance of several works |
| 17 | Carry out work display to motivate students to learn and create calligraphy |
| 18 | Enhance communication and exchange between students and teachers, and improve their professional knowledge through continuous discussion and research on professional knowledge |
| 19 | Theoretical knowledge of calligraphy can be assessed in the form of a short essay |
| 20 | Calligraphy skills and creative calligraphy practice require more time and effort and can be assessed by the completion of multiple post-class assignments |