

The Effective Teaching Reform of Biochemistry under the Ideological and Political Mode in the Classroom of Nursing Specialty in Higher Vocational Colleges

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Abstract: In recent years, higher vocational education in China has received more and more attention. Higher vocational education is no longer only focusing on teaching professional knowledge and skills, but also paying more attention to infiltrating political literacy education and professional ethics cultivation in teaching. Therefore, the education in higher vocational colleges should adhere to the principle of establishing morality and cultivating people, and integrate ideological and political elements into actual classroom teaching. Biochemistry, as the basic course of nursing specialty, will be an important carrier for building effective ideological and political courses. Therefore, only by effectively reforming the biochemistry teaching system under the ideological and political mode in the classroom of nursing specialty in higher vocational colleges and infiltrating political ideas and professional ethics into students' daily life and learning, can we effectively cultivate angels in white with lofty moral and professional spirit.

1. Introduction

To build a comprehensive and effective curriculum ideological and political teaching model, it is necessary to integrate values in the process of knowledge teaching and ability training, and guide students to gradually form correct world outlook, outlook on life and values in the process of learning, combining knowledge teaching, ability training and value shaping. Therefore, higher vocational colleges should attach importance to the construction of the ideological and political work, teaching and content system of the curriculum, and integrate the ideological and political elements into the process of building students' knowledge and skills, so as to achieve the teaching effect of "moistening things and silence". Because there is a certain gap between the source of medical students in higher vocational colleges and undergraduate colleges, the ideological and political education in higher vocational colleges is particularly important. In addition to helping students master a professional skill, we should also focus on cultivating students' cultural literacy and comprehensive quality. Therefore, the integration of ideological and political education in higher vocational colleges is increasingly valued.

2. The current situation of biochemistry ideological and political teaching in higher vocational nursing specialty

Compared with the undergraduate teaching content, the teaching content of biochemistry in higher vocational colleges has some differences in the depth and width of knowledge, but its basic content framework is generally similar, and the continuity and interweaving of content are basically consistent. The teaching of biochemistry in higher vocational colleges includes the basic material structure, function and nature of life, the law of chemical changes in life activities, and the basic characteristics of some organ metabolism [1].

2.1. Attaching importance to explicit education and ignoring implicit education

On the one hand, at present, the number of class hours arranged for medical biochemistry courses in higher vocational colleges in China is not very large. The small number of class hours and a variety of teaching content make many students feedback that the course is heavy and not enough to digest in class. At the same time, some higher vocational colleges have even reduced the class hours of experimental courses. The compact class hours lead to the lack of space and time to integrate the ideological and political education content into the actual teaching process. On the other hand, the teaching content of medical biochemistry is relatively abstract, and the obscure teaching content and ideological and political elements are not easy to integrate.[2] The curriculum objectives of colleges and universities mainly highlight the explicit education aspect - skill knowledge teaching, while the ideological and political construction of curriculum is a hidden education objective. Even if the ideological and political content of the classroom is not integrated in the classroom, it will not have a significant impact on the evaluation of teachers and students' learning assessment. Therefore, this kind of assessment standard that ignores the hidden education goal cannot establish an effective classroom ideological and political teaching mode.

2.2. Inadequate understanding and understanding of curriculum ideology and politics

At present, some teachers in higher vocational colleges still believe that ideological and political education is taught by special ideological and political teachers. At the same time, what they teach is the basic knowledge of biochemistry. Compared with the professional theory and practical skills courses, the theoretical content is very strong, the content is more obscure, and there is basically no rich clinical cases to support, so it is inconvenient to imperceptibly infiltrate ideological and political elements into the classroom. The construction of ideological and political system in higher vocational colleges is to effectively integrate correct values, spiritual pursuit and ideological and political education knowledge into all teaching courses, and imperceptibly influence and change students' ideology and behavior. Therefore, the current teaching of biochemistry in higher vocational colleges is facing the problem of insufficient ideological and political education thoughts and abilities of professional teachers. The level of ideological and political teaching of these professional course teachers is closely related to the development of ideological and political courses. The main purpose of curriculum ideological and political education is to lead correct ideological values, while the content of curriculum ideological and political education in professional courses needs to be combined with the laws and characteristics of professional courses.

3. Design of ideological and political teaching content of biochemistry course

3.1. Overall design idea

Moral education is the foundation of education. Colleges and universities shoulder the responsibility of helping students shape correct values and cultivate young people with four virtues for the society. Therefore, on the basis of stimulating students' learning enthusiasm and increasing classroom interest, we should integrate the knowledge teaching objectives and emotional teaching objectives in biochemistry teaching, and the two should go hand in hand to keep students' learning enthusiasm in the classroom at all times. Although the learning content of biochemistry course is theoretical, complicated and obscure, its content is all about human life activities. At present, the doctor-patient relationship in China is relatively tense, and nursing students in higher vocational colleges will frequently contact patients and their families in the future, so the requirements for students' pressure resistance, psychological quality, dedication and knowledge literacy are relatively high. Students should be taught that the life science knowledge they learn is closely related to their career, future life and family, which help them to achieve their learning goals imperceptibly in the school. At the same time, we should also cultivate students' learning ability, so that learning ability can perfectly match learning tasks, and pride and learning satisfaction will arise spontaneously. Only by doing so can students continue to maintain sufficient learning motivation and successfully complete the whole biochemistry course study from the perspective of curriculum ideology and politics [3].

3.2. Integration of ideological and political elements of curriculum and professional teaching content

The effective teaching of biochemistry under the ideological and political mode in the classroom of nursing specialty in higher vocational colleges needs to integrate ideological and political elements and professional teaching content. For example, the introduction of the course introduces the contents of biochemistry, which can introduce common items such as eggs or steamed bun to attract students' attention; When teaching the development process of biochemistry, we can use the news materials that have won the Nobel Medical Prize to introduce the scientific exploration stories of scientists into the classroom, so that students can sublimate their spirit in the narrative stories, and cultivate students' social values and national self-confidence while improving their learning pleasure. In the classroom teaching of learning material composition module, professional teachers can use the small video of melamine event as a guide, and then introduce the structural characteristics of protein in detail. Among them, the concepts of abiding by law and cherishing life can be infiltrated into the teaching content; When learning protein denaturation, Wu Xian, a biochemist who first proposed this concept, can be used as the opening point of teaching. When students understand it, they cannot help but cultivate national consciousness, have a stronger sense of political identity and cultural self-confidence.

4. Precautions for implementing teaching

4.1. Understanding the teaching objectives and contents of the whole course and each chapter

Professional teachers can only integrate the ideological and political elements into the curriculum, effectively integrate them with the curriculum content, and prevent the situation that the ideological and political elements are "incompatible" with the curriculum content, if they understand the teaching content of biochemistry thoroughly and clarify their teaching objectives.

4.2. Using a variety of teaching means and methods

The knowledge content of biochemistry is relatively abstract, and it is difficult to add ideological and political elements to the original less class hours. Therefore, it is necessary to fully mobilize students' learning enthusiasm. Each chapter in the textbook has its own characteristics. According to these characteristics, teachers need to apply different teaching methods to maximize the teaching effect. Teachers of biochemistry in higher vocational colleges can make full use of the modern teaching platform to enable flipped classroom, PBL and other designs. In addition, students in higher vocational colleges do not have good academic achievements, but the theoretical study of the basic courses of biochemistry majors is more important than practical operation. Teachers can introduce visual design of video and animation into classroom teaching, control the time of each video and animation within 5 minutes, and attract students' attention in the form of jump play, so that a teaching highlight will appear every 15 minutes or so in classroom teaching. Students will not easily feel tired and tired in this learning atmosphere. Classroom teaching from the perspective of ideological and political education not only refers to the integration of ideological and political elements into the teaching content, but also includes the personal demonstration of the teaching teacher. If the professional teacher can prepare each class carefully, have sufficient preparation before class, and be responsible during and after class, students will also experience the teacher's intentions in the whole process, and have a positive impact on the students' learning attitude and psychology. In short, if nursing majors in higher vocational colleges want to effectively introduce ideological and political teaching in the biochemistry class, they should learn to comprehensively consider the teaching design plan, and combine the teaching content with actual life, in order to stimulate the learning interest of higher vocational students to the maximum extent, and achieve the coordination and unity of knowledge and emotion.

5. Evaluation of teaching effect of biochemistry course from the perspective of curriculum ideology and politics

In general, biochemistry teaching from the perspective of ideological and political courses can combine professional theoretical knowledge and practical skills with core socialist values, and cultivate students to form noble professional ethics and patriotism. In daily teaching, in addition to paying attention to students' professional basic knowledge and practical ability, we should also pay attention to students' recognition and love of the profession, cultivate students' rigorous and serious attitude towards science and innovative and divergent thinking, so as to better serve patients, take care of patients' emotions, and be able to perceive patients' minor symptoms. Therefore, in the course assessment of biochemistry, the goal of ideological and political assessment should be deepened, and the ideological and political education should be further emphasized on the basis of the original focus on the learning ability of professional knowledge. Taking our college as an example, the assessment of biochemistry courses in nursing specialty is divided into process assessment accounting for 40% and final assessment accounting for 60%. There is almost no ideological and political assessment in the assessment of students' biochemistry specialty. With the country's attention to curriculum ideological and political education, the assessment method of nursing specialty in higher vocational colleges should be innovated, and a certain proportion of assessment should be allocated to the ideological and political elements of curriculum, which is composed of 50% of the final examination results, 40% of the ordinary results and about 10% of the evaluation of ideological and political elements.

Teachers can focus on case teaching methods when examining the scores of biochemistry courses of nursing students in higher vocational colleges. Because the content taught in the biochemistry course is basic and has a lot of theoretical knowledge, case analysis can bring boring theoretical

content to the paper, and use real cases to attract students' attention to infiltrate professional content into the classroom teaching process. The teacher can also guide the students to tell and analyze the content of the case during the assessment. On the one hand, it can improve the students' rational thinking ability of comprehensive analysis, on the other hand, it can also cultivate their scientific and rigorous learning attitude, and integrate the quality education of students into the knowledge teaching classroom unconsciously, so that students can learn to find and solve problems in the process of learning scientific professional knowledge, and constantly optimize the content of the current learning course.

The flexible use of the teaching method of actual cases can help teachers and students to understand the weak links of students' own knowledge learning. Teachers can design the teaching content according to the degree of students' analysis of cases to ensure that their teaching content can meet the learning needs of students. The analysis of cases can assess students' knowledge skills and ideological and political objectives. On the basis of improving students' thinking ability, students will deepen their mastery of knowledge. Students will also have a clearer understanding of abstract concepts and start to learn actively. While improving learning efficiency, they will expand their knowledge. The transmission of spirit and belief in the cases will also make ideological and political elements more natural in teaching.

6. Conclusion

In short, the effective teaching of biochemistry under the ideological and political mode in the classroom of higher vocational nursing specialty should integrate the implicit ideological education into the explicit teaching objectives, and effectively integrate knowledge and correct values. Ideological and political elements are the soul of curriculum teaching, and the curriculum itself is the foundation of ideological and political construction of curriculum. Only effective classroom construction can make the curriculum ideological and political have a foothold and will not become a "passive water". Curriculum ideological and political education is to excavate the ideological and political elements in professional knowledge and teaching contents, reform the defects in curriculum objectives, contents, results and models, and integrate correct values and ethics into the teaching process of different curriculum contents and professional skills, so as to integrate explicit and implicit teaching contents, cultivate high-quality talents with all-round development, and give full play to the role of teaching and educating people in higher vocational colleges.

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