

Practical Discussion on the Teaching Strategy of Ideological and Political Education in Geology Courses

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Establishing morality and cultivating people is the fundamental task of education. Professional courses should implement diversified, imperceptible, and embedded ideological and political education through reasonable and skillful teaching links to achieve the goal of curriculum education. This paper fully analyzed the advantages and potential of geological courses in ideological and political education, excavated the ideological and political education elements contained in the curriculum, and explored the commonality and integration between the curriculum content and ideological and political elements. Teaching strategies in four aspects were put forward: revising the curriculum objectives, enriching teaching resources, improving teaching methods, and strengthening practical teaching. The problem of integrating professional curriculum teaching and ideological and political education was solved.

Keywords: curriculum ideological and political, geology, teaching strategies, establish virtue and cultivate people

At present, many colleges and universities have proposed to break the dilemma of ideological and political teachers “fighting alone” and “isolated” ideological and political courses in universities (Gao & Zong, 2017). To promote the ideological and political reform of the curriculum, all teachers, all courses, and all education links should undertake the task of establishing morality and cultivating people (Qiu, 2017). At present, the amount of information that college students are exposed to is increasing, and the information is mixed. In addition, the ability of college students to distinguish right from wrong is limited. The multiple values and even some bad information have brought a certain impact on the world outlook, outlook on life and values of contemporary college students (Sun, Wang, & Zhong, 2019). In the current complex social environment with multiple values infiltrating, we should not only rely on the pure ideological and political courses to guide the value of college students, strengthen the ideological and political construction of professional courses, improve the education system of professional courses, and realize the ideological and political curriculum with the help of professional course carriers, which has become the research focus of college curriculum reform. How to give full play to the advantages of various disciplines and put ideological and political education through the whole process of college curriculum teaching, so as to achieve the all-round goal of education, is the mission of contemporary college educators.

The ideological and political course and the professional course have both generality and individuality. The process of integrating the ideological and political education content into the professional course will be limited by the content of the professional course. It is necessary to grasp the degree and not force the ideological and

political education concept into the professional classroom teaching. This practice will cause students' disgust and make the educational effect poor. Therefore, suitable teaching methods are very important. We should analyze and sort out the relationship between various elements, and adopt effective strategies to achieve the dual goals of moral education and talent education.

Ideological and Political Potential of Geological Courses

Geology is a discipline that studies earth science. As one of the six natural sciences, earth science is a discipline system with a long history and many branches, and its research field is closely related to human survival and development (Li et al., 2019). In the 21st century, earth science has entered a new stage of "going to the sky, going to the earth, going to the sea, the environment, and the future". The exploration and development of new resources, the prediction and prevention of geological disasters, and the protection of environmental ecosystems are inseparable from earth science. The relationship between earth science and human survival and development is increasingly close.

Geology plays an important role in enlightening geoscientific knowledge and geoscientific values (Chen et al., 2018). The main knowledge system of the course includes the general situation of the earth, geological process, material composition of the earth, the law of movement and development of the earth, and the earth environment and sustainable development. The general situation of the earth corresponds to the process of people understanding and exploring the earth; the geological process corresponds to the recognition and summary of a large number of phenomena and laws; minerals and rocks correspond to the material view of the world, reflecting the relationship between micro and macro; the movement and development law of the earth reflects the movement and development view of the earth, which corresponds to the hardship of life evolution and human understanding and summary of the evolution law of the earth; the earth's environmental resources reflect the harmonious coexistence of human beings and the earth. The course not only contains a lot of philosophical thinking such as geoscience epistemology, axiology, and methodology, but also contains the national spirit of geologists in the process of geological engineering construction, resource and energy exploration, and geological disaster management for the motherland. Therefore, ideological and political education in such courses plays a good role in guiding students' world outlook, outlook on life and values.

Ideological and Political Elements of Geological Courses

The curriculum ideological and political education should cultivate the "unity of knowledge and practice" talents who apply learning to practice, promote learning, and learn from each other. The talents with the unity of knowledge and practice should have noble moral sentiment, strong sense of social responsibility and firm ideals and beliefs, always adhere to the principle that action is better than words, and be consistent in appearance and appearance, practice "action" and realize "Tao" by relying on real skills and personal performance, and make real personal contributions to the country and society. Action is the beginning of knowledge, and knowledge is the result of action. Efforts should be made to practice what we have learned, so that what we have learned can be finally implemented, to achieve the unity of knowledge and action, and to promote the comprehensive development, mutual promotion, and mutual integration of such elements as the moral, intellectual, physical, aesthetic, and labor of geological workers, which should be the goal of ideological and political efforts of geological courses.

Take Patriotism as the Benchmark and Build Core Values

The curriculum ideological and political education should closely focus on the fundamental task of moral education, integrate the socialist core values into talent cultivation, scientific research, social services, and cultural inheritance, take the Chinese Dream education practice as the theme, and take the “two courses” education and teaching as the resources, guide college students to cultivate their moral integrity, lead talents with moral integrity, and nurture talents with moral integrity, and teach college students to fulfill their social responsibilities. Promoting college students’ value orientation conforms to the core socialist values.

Take Love for Family as the Support Point, Highlighting the Traditional Virtues of the Chinese Nation

Home style and family education are in the same line with social responsibility and the spiritual mission of earth science workers. We should design the educational carrier of home-school integration and home-state integration, such as the ideological and political content of civilized family, harmonious family, learning family, loving home, serving home, and other topics, and effectively promote home style and family education and local accent into the campus and into the minds of geologists. We should guide young geological talents to self-educate, self-manage, self-serve, and self-construct, consciously combine with the practice of socialist core values, combine their own personality cultivation with concern for the fate of the country, and combine personal ideals with national dreams, personal dreams with geological dreams, personal values with national development.

With the Love of Learning as the Starting Point, Enhance the Sense of Mission of “Learning for the Country”

The curriculum ideological and political education should focus on the integration of scientific frontier and Chinese tradition. Teachers of geology courses should teach students to abandon the traditional single concept of learning for family glory and personal reputation, change to the concept of “learning for the country” as soon as possible, strengthen the combination of national goal orientation and personal interest drive, enhance the value and significance of college students’ love for learning geoscience, and fully realize that geological knowledge is an important foundation of geoscience culture.

With the Purpose of Loving the People, Shape the Geologist’s Consciousness of Serving the People

The curriculum ideological and political education should guide the students majoring in geology with unique earth science and cultural content and patriotic and patriotic academic feelings, integrate the ideological and political education resources and reasonable curriculum design into the university classroom, improve the students’ professional interest and professional confidence, form an open mind that is brave to accept new ideas and eager to pursue the academic frontier, enhance the curiosity and initiative to seek new solutions, and cultivate students’ optimism, enthusiasm. The upward attitude towards life, through the edification of the geology of a large country, helps students establish a generous and open-minded way of dealing with the world, and shapes the consciousness of geologists serving the people.

Practice Strategy of Ideological and Political Teaching in Geological Courses**Revise Course Objectives**

The teaching objectives of geology in the past are mainly embodied in the teaching of geological professional knowledge: (1) master the basic theories and knowledge of geology; (2) grasp the basic laws and characteristics of geological elements; (3) be able to analyze the relationship between geology and other elements; (4) master the working procedures and research methods of regional geological survey; (5) master the national

and social needs and the latest development trends in the field of geology. The reform of ideological and political education in the curriculum is based on the original objectives of the geology curriculum, according to the requirements of ideological and political education in the new era curriculum, and based on the cultivation objectives of moral education, focusing on the cultivation of students' ability and quality. Its curriculum teaching objectives have added relevant ideological and political elements in the curriculum, such as stimulating students to understand the significance of the earth to human beings from a rational and scientific perspective through curriculum learning. Then from the heart, we should love and protect our earth, cherish life, live in harmony with nature, and establish a correct view of development. In combination with the teaching content, resources, and environmental protection, new development concept, and other aspects of education, teachers should educate students to practice the core socialist values of patriotism, professionalism, integrity, and friendliness, enhance the sense of national pride and social responsibility, and set the specific ideological and political objectives of the curriculum in each chapter.

Enrich Teaching Resources

Geology is an invisible course of ideological and political education. The research object is our earth, which helps to cultivate students' materialistic world outlook and methodology, as well as their ability to distinguish right from wrong, responsibility, and family feelings and other moral qualities. The focus of ideological and political education in this course is to rely on the knowledge system of geology, dig deep into ideological and political education points, and emphasize values through the teaching of knowledge. In the chapter of geological structure, the discovery of Daqing Oil Field can be taken as a case to introduce the deeds of "Iron Man" Wang Jinxi. He led the 1,205 drilling crew to open the first oil well in the Daqing Oil Field Oil Battle, and set the world drilling record of 100,000 meters per year, showing the spirit of oil workers, and the "Iron Man Spirit" and "Daqing Spirit" left by Wang Jinxi. As well as the heroic words of "go ahead with conditions and create conditions without conditions", they have become the precious wealth of China's socialist construction cause. In the earthquake section, students can feel the heartache of the earthquake and the warm pictures and heroic deeds that shake the people of the whole country after each earthquake by playing some films or news videos. Through full analysis of teaching content, in-depth exploration of ideological and political elements, with professional knowledge as the main line, teachers should guide students to actively think, understand and practice the socialist core values, so as to maximize the educational function of professional courses in the classroom.

Improve Teaching Methods

The attribution of education is not "teaching" by teachers, but "learning" by students. Therefore, the curriculum teaching method should be student-centered, take learning effect as the evaluation standard, and promote the all-round development of students as the goal. (1) Case teaching: The geology course covers a large number of disciplinary cases with regional characteristics. The research results of the theory of continental oil formation in northern China have enabled geologists to successfully discover large oil fields in the Songliao Basin of Heilongjiang Province, and completely cast off the hat of "oil shortage theory". The exploration of the UHP metamorphic belt in central China has made remarkable achievements. Many geological research directions in China are also the frontier issues of current geological research, attracting the attention of most scholars in the world. Many foreign experts have come to China to carry out scientific research exploration and cooperation and exchange, greatly improving China's dominant position in the world. Through the explanation of typical cases in the field of geology, we can enhance national self-confidence, patriotism and national pride. (2) Heuristic

teaching: Heuristic teaching is an effective way to implement curriculum ideology and politics. As a science of studying the earth, geology has a large number of heuristic teaching cases and resources. For example, how did volcanoes form as natural wonders? Is volcanic eruption more beneficial than harmful to mankind or more harmful than beneficial? Why do marine strata exist on high mountains? How many years can China's underground oil reserves be exploited? In the teaching process, through these enlightening questions, teachers should guide students to think, integrate ideological and political recessions into the classroom from the shallow to the deep, let students understand the relationship between geology and human development, and stimulate students' interest and enthusiasm in the major. (3) Discussion teaching: In the teaching process, discussion teaching can be implemented through pre-class data collection, video viewing, literature review, etc. By setting questions and conducting group discussions, we can not only improve the communication, cooperation, and expression ability of group members, but also combine our own development with the spirit of the times in the process of discussion to achieve the goal of curriculum ideological and political.

Strengthen Practical Teaching

Practice is the only way for geological talents to practice the unity of knowledge and practice. A word cannot be practiced, and a thousand volumes are empty. The ideological and political education of the course should be based on the practice of thinking. The ideological and political education of the geology course should not be limited to classroom teaching. According to the curriculum arrangement, the ideological and political space of the course can be appropriately and timely broadened, and the ideological and political time of the course can be extended. Strengthening the promotion of practical education is of great significance for improving students' professional quality and cultivating comprehensive thinking ability. The overall arrangement of practice content and rational planning of practice route have the effect of twice the result with half the effort for improving the ideological and political education of the curriculum. Geological workers need to be hard-working. In practical work, the harsh geological environment in the field is not only a test of the body, but also a test of human will. In the geological cognition practice stage, the famous deeds of the practice site and the local regional development characteristics can be integrated into the field practice teaching activities. In the field geological teaching process, the students' team cooperation awareness, rule awareness, safety awareness, and other basic national policies such as ecological civilization and environmental protection can be instilled, and the education of human geography, beautiful China education, and other educational elements can also be taught, to enable students not only to learn professional knowledge, but also to subtly accept the influence of ideological and political education.

Summary

In the critical period of the cultivation and establishment of the values of young geological college students, the curriculum ideological and political education should earnestly fulfill the responsibilities of teaching and educating people and culture, take patriotism, love of home, love of study, love of study, and love of school as the basic elements of cultivating talents, let the great love education and moral education inherit in the family, school, and social environment, and practice in the mission of study and study. The geology curriculum contains rich ideological and political resources. On the basis of deeply exploring the ideological and political education elements of the curriculum, guided by the ability objectives and knowledge objectives, the ideological and political elements are deeply integrated with the geological knowledge to realize the all-round education of knowledge, ability, and character, cultivate the students' spirit of not being afraid of failure, not being afraid of

difficulties, and being brave to explore, and form the concept of not being afraid of failure. Through reasonable teaching design and teaching strategies, it can not only deepen professional knowledge, but also make the curriculum more “taste”, help cultivate geological talents “in the same direction”, and achieve the fundamental goal of establishing morality and cultivating people.

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