

# Study on the Practice Curriculum Ideology Based on Organic Chemistry

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**Abstract:** The implementation of “Curriculum Ideology” is of great significance for colleges and universities to implement the fundamental task of “cultivating people by virtue” and to ensure the realization of college talent training goals. However, how to integrate ideological and political content into science and engineering courses has troubled the author for a long time. On the basis of practice, this article discusses how to organically integrate ideological and political content and implement “curriculum ideological and political” in the organic chemistry teaching of the basic courses of chemical engineering in higher vocational colleges.

## 1. Introduction

General Secretary Xi Jinping pointed out: “To do a good job of ideological and political work in colleges and universities, we must make good use of the main channel of classroom teaching, enhance the affinity and pertinence of ideological and political education, meet the needs and expectations of students’ growth and development, and make various courses in the same direction as ideological and political theory courses. Go together to form a synergistic effect”, “To run a socialist university with Chinese characteristics, we must adhere to morality and foster people, integrate the cultivation and practice of socialist core values into the whole process of teaching and educating people, and realize the whole process of educating people and all-round education” [ 1]. In 2017, the report of the 19th National Congress of the Communist Party of China clearly stated once again that “building a strong education nation is the basic project for the great rejuvenation of the Chinese nation. Education must be given priority for development. The fundamental task”[2]. The above discussion emphasizes the necessity of an organic combination of imparting knowledge and value guidance. It also points out that college teachers should use morality as the criterion and rely on “curriculum ideology” to combine student ability education and value education.

Organic chemistry, also known as the chemistry of carbon compounds, is a science that studies the composition, structure, properties, preparation methods and applications of organic compounds. It is a basic professional course for chemical engineering and medical majors in our university. In order to stimulate students' interest in learning and learning motivation, in order to realize the ideological and political education of college students in a subtle way, advocate and train students to establish a correct outlook on the world, life, values, honor and disgrace, enhance students' sense of responsibility, and realize morality and cultivation[3 ]. This article focuses on how to carry out curriculum ideology and politics in the course of “Organic Chemistry”, combined with teaching experience and school-running characteristics, and puts forward the author's views and opinions. At the same time, it also strengthens the school’s ideological and political construction and classroom teaching of “full-staff education, full-course education”. , All-round education” to provide reference and reference.

## 2. The Status Quo of Ideological and Political Education in Organic Chemistry Courses in Colleges and Universities

### 2.1 The Ideological and Political Curriculum Consciousness of Teachers in Organic Chemistry Needs to Be Strengthened

For a long time, college teachers have taught courses based on their professional background. From classroom teaching to experimental training, to graduation design and internship, the focus is

on imparting knowledge and skills. The ideals and beliefs of students, core socialist values, and personal literacy education are relatively lacking. The ideological problems and value orientation of students almost all fall on the shoulders of ideological and political teachers or counselors. In addition, some teachers “just go to the stage when they leave the classroom” and wear the hat of high education. In fact, they lack teaching experience. How can they talk about curriculum ideology? The disconnection between teaching and educating people has become a common problem in college education.

## **2.2 Undergraduates Have a Public Personality, and the Learning Effect Needs to Be Improved**

The content of organic chemistry is complicated and logical, but most of the chemistry students in our school are transfer students, and the science foundation is weak. There is a real problem of disconnection of knowledge points between the learner and the course of study. In addition, most students are not clear about their motivations and lack of interest in learning theoretical courses. Playing mobile phones and sleeping have become the norm. The experimental courses offered are generally carried out in the form of teacher demonstrations and students imitating. The results of the experiments are known, not exploratory, and students lack learning interest.

## **2.3 The Organic Chemistry Course Has Heavy Class Hours, and the Teaching Content and Teaching Format Need to Be Improved**

In recent years, information technology and education and teaching have been deeply integrated. Online and offline teaching tools and teaching assistant software provide a strong guarantee for our excellent completion of the course. However, most teachers still use multimedia PPT to teach students according to the textbook method, which is difficult to meet the needs of contemporary students, and it is even more difficult to stimulate students' enthusiasm to participate in teaching. In addition, some teachers have an outdated knowledge structure, lack of vivid and typical cases to enrich the teaching content, and do not adjust the teaching content according to the actual situation of students and classroom dynamics. The teaching content lacks the connection with current affairs and social reality, and even lacks the requirements of ideological and political education.

## **3. Exploration of Ways to Carry out Ideological and Political Education in Organic Chemistry Courses**

It is the sacred duty of education to foster morality, teach and educate people. The “morality” mentioned here refers to both Marxist morality and socialist morality, as well as the traditional virtues cultivated and formed by our people in long-term practice [4]. In order to make ideological and political education run through the whole process of organic chemistry course learning, it is necessary to explore the teaching and practice ways of the course to carry out ideological and political teaching and to incorporate moral education. Figure 1 shows the idea of developing curriculum ideology. On the basis of unified teaching teachers' thinking, starting with professional top-level design, the curriculum ideological and political content is integrated into each link of teaching. That is, from the graduation requirements, teaching goals, curriculum syllabus, teaching content, and assessment methods in the training plan to find the integration point, accumulate ideological and political materials, enrich teaching methods for teaching links, and implement diversified, permeable and embedded curriculum ideological and political education [5].

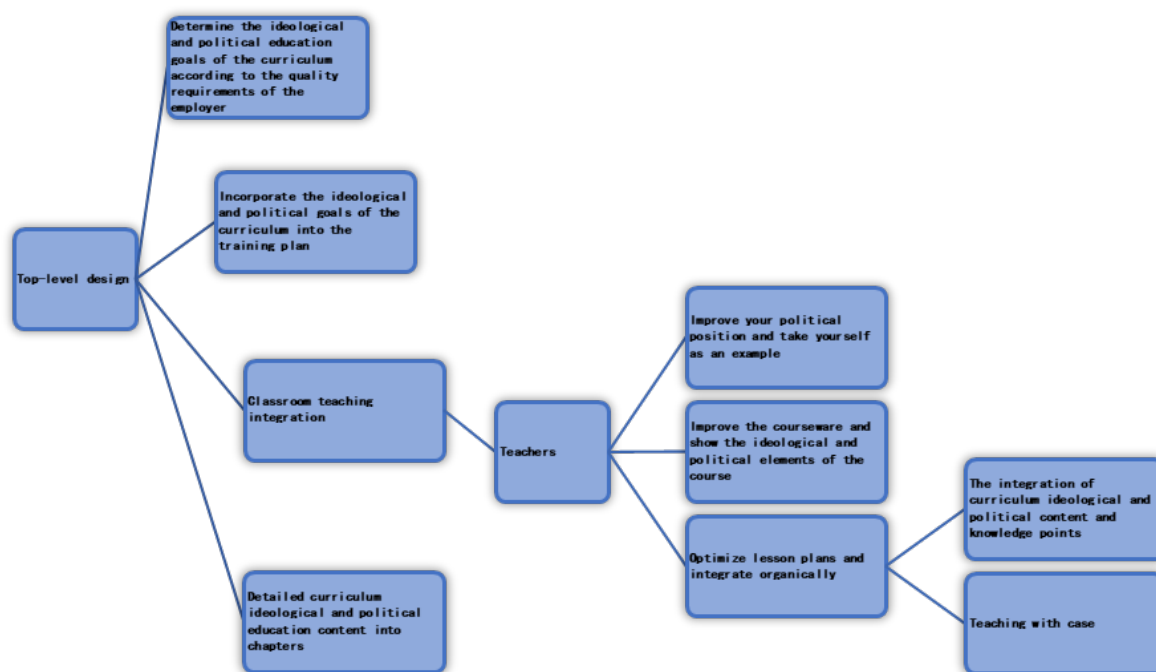


Fig.1 Ideas for Curriculum Development

### 3.1 Improving the Ideological and Political Abilities of Teachers Teaching Organic Chemistry in Colleges and Universities

Teachers are the foundation of education, the source of education, and the “dream builders” of the new era. It is the first resource of education development that shoulders the important task of spreading knowledge, spreading ideas, spreading truth, shaping soul, shaping life, and shaping people. Teachers in colleges and universities should strengthen political learning, improve their political positions, earnestly strengthen their own ideological and political quality and awareness, broaden their subject horizons, and innovate teaching methods. At the same time, strengthen the sense of collaboration, strengthen communication and learning with teachers of ideological and political courses, learn from each other's strengths, and improve the quality of the course team. Curriculum ideological and political is not equal to the ideological and politicalization of the “Organic Chemistry” course, nor is it a simple ideological and political extension and closeness in the classroom or curriculum, but a natural fusion of “moisturizing things silently”. Teachers can achieve ideological and political education from the problems of social hot issues and professional training. This requires teachers to calm down, carefully design each class, carefully prepare each slide, carefully organize every sentence in the class, carefully correct each assignment[6], and use rigorous teaching style and serious responsibility. Spirit to infect students. Teachers achieve scientific knowledge to discern people, noble moral education, charismatic personality persuade people, and then subtly influence students' values and outlook on life.

### 3.2 The Education Model That Emphasizes the Combination of Knowledge Points and Cases

From the removal of clothes stains to the choice of home decoration paints, from food and medicine to garbage sorting and recycling, organic chemistry runs through all aspects of life. In the course, how to get rid of the aftertaste in the mouth after eating garlic can elicit the structure and properties of protein and stimulate students' interest in learning; from the cleaning of laboratory utensils to the extraction of tea polyphenols in tea, students' team consciousness and scientific thinking will be cultivated; in particular; It can be combined with melamine, the Tianjin Port explosion, etc., to educate students not to be profitable, to disregard morals and conscience, endanger the society, train students to go to work, never produce fake products, do not make false reports, and cannot change equipment parameters and parameters at will. The production process must have a lofty professional ethics, good professionalism and a strong sense of responsibility.

### **3.3 Starting from the Historical Context of Curriculum Development, Cultivate Students' Sense of Mission**

From the term organic chemistry put forward by Bezelius, to the discovery of oxalic acid and urea, to the synthesis of citric acid and apple cider vinegar, these scientific events have guided and inspired students' inquiry spirit and scholarly attitude. Combined with the Nobel Prize for Lithium Battery Researchers' Chemistry Prize, it stimulates students' sense of identification with science, and also stimulates students' deep understanding of how science and technology change lives. Use these real cases of scientists to guide and educate students, so that scientists and scholars waiting for scientific and technological talents to become the object of their pursuit, inspiring students' interest in the frontiers of science.

### **3.4 Use Modern Technology to Let Ideological and Political Elements Penetrate into Classroom Teaching and Knowledge Application Practice.**

With the discovery of modern educational technology, teachers should adopt a variety of teaching methods, incorporate the above-mentioned content into the curriculum design, combine the syllabus, group students into groups, adopt a flipped classroom format in a timely manner, throw open research topics, and make students participate. For example, when studying aldehydes, you can combine the hot issues of house decoration to allow students to express their team opinions in terms of reducing aldehydes, removing aldehydes, and choosing alternative substances through teamwork and consulting materials. This can cultivate students' sense of unity, cooperation and communication, expand their horizons, encourage students to explore the frontiers of the subject, and improve their sense of history; it can also cultivate students' innovative thinking, improve their learning initiative and curriculum self-confidence, and even plan a learning career that suits their interests. . In addition, students can also be encouraged to participate in teachers' scientific research projects, and they can also take advantage of the opportunity to listen to enterprise engineers explaining production cases and experiences; encourage students to participate in popular science activities related to organic chemistry; and encourage students to participate in "Internet +" entrepreneurship that combines subject knowledge Plan competitions to enhance professional identity.

## **4. Conclusion**

Ideological and political education in colleges and universities is not only the responsibility of ideological and political teachers and counselors, but also the common responsibility of every teacher participating in the course. In order to achieve the expected results, college teachers must deeply understand the importance of curriculum ideological and political education, accumulate ideological and political materials, design ideological and political teaching links, and implement diversified teaching content and an organic integration of ideological and political education. Every teacher is a student's life mentor. Only when every teacher makes good use of the classroom as a teaching position and relentlessly strengthens students' ideological and political education can they take root in every student's heart and truly realize morality. Shuren's educational goals.

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