

**2023**







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	<p>The immune system is a disease defense system composed of a series of biological structures and processes in an organism. The immune system can detect many pathogens, including viruses and bacteria, and distinguish them from healthy tissues. It participates in the maintenance of the normal functions of almost all tissues and organs of the human body and is closely related to human health. Especially in the environment where epidemic diseases are raging around the world and immune diagnosis and treatment technology is advancing by leaps and bounds, immunology and immunological technology play an important role in safeguarding human health.</p> <p>This course will expand and introduce the basic knowledge of immunology and related technologies, including the composition and function of the immune system, immune diseases, immunity and aging, antibody technology, etc., on the basis of the existing knowledge of senior high school students. On this basis, we will further discuss the application of immunological knowledge and technology in the prevention, diagnosis and treatment of diseases, such as the prevention of infectious diseases by vaccines and the immunotherapy of tumors. Finally, the students will deeply understand the important role of this discipline in the maintenance of human health and the characteristics of the intersection and integration of immunology with related disciplines and other disciplines, which will also inspire the study of related disciplines.</p> <p>This course aims to enable students to understand the basic knowledge points of medical immunology, immunological technology, the characteristics and development trends of the discipline, and cultivate their scientific interests of related disciplines.</p>					




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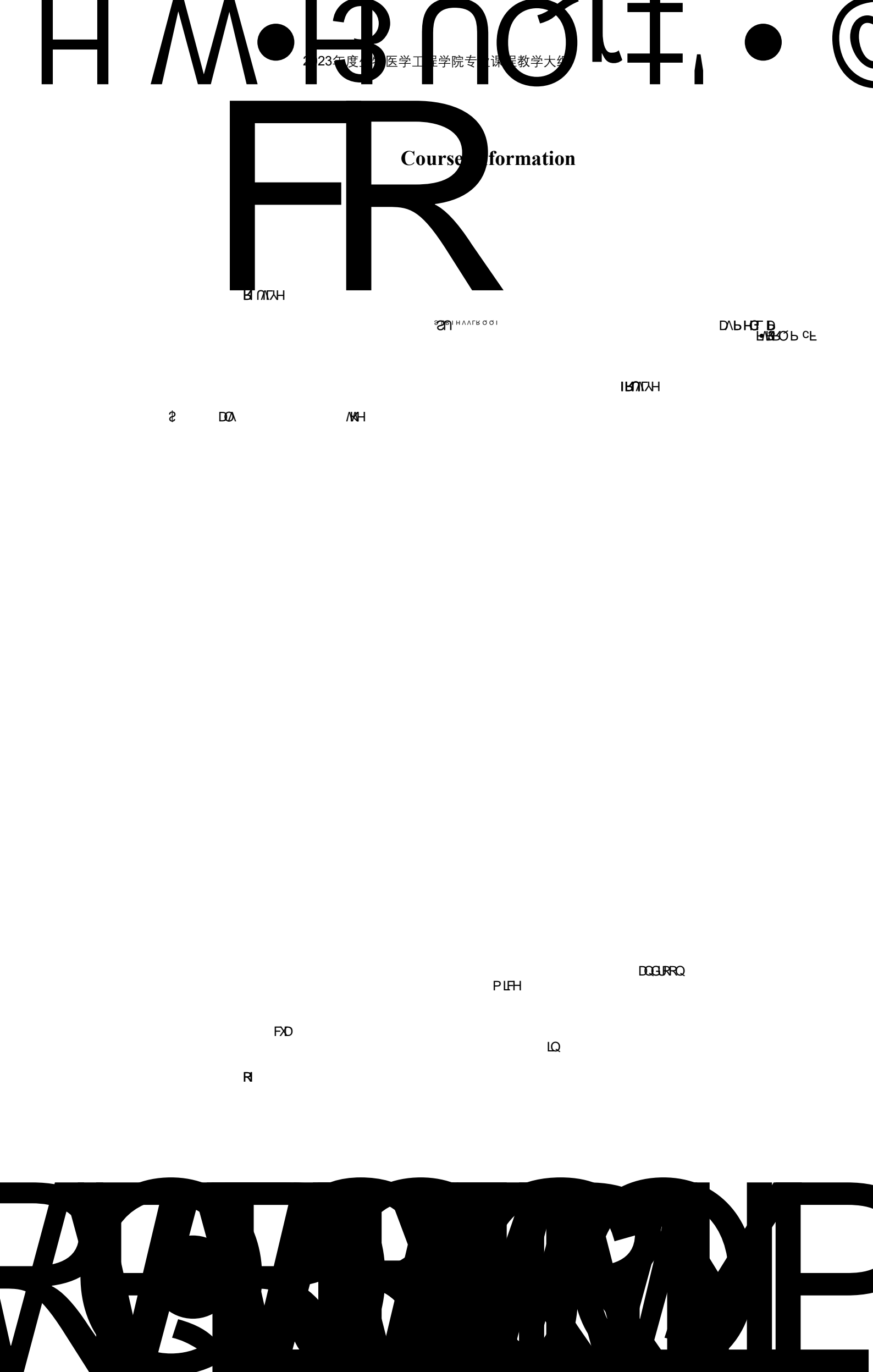


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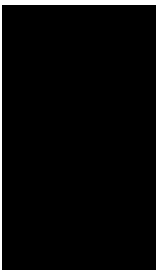
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	<p>The Biomedical Engineering Senior Design course is a required, one and half semester capstone course for undergraduate students. Students work in an individual or in a team to solve real-world, open-ended problems in the field of biomedical engineering. Specifically, it is divided into research topics and industrial topics. Among them, research topics are proposed by academic teachers, and students carry out the design under the guidance of teachers; industrial topics are issued by enterprises in the medical instrument industry. Students are guided by both the academic teacher and industrial instructors jointly in on-going R&amp;D project. The course takes students through all steps of biomedical engineering design, from identifying and formulating a problem, analyzing the problem, prototyping viable solutions, testing, and finally bringing their product to the clinics and/or market.</p>						

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	<div>结合本校办学定位、学生情况、专业人才培养要求，具体描述学习本课程后应该达到的知识、能力、素质、价值水平。</div> <div>1.能了解人工智能的基本方法，了解人工智能的发展历程，了解人工智能与相关学科、应用结合后的前景；（ A1， A3， B1， B2， B3， B4， C3， D1， D3）</div> <div>2.能使用人工智能工具，构建针对实际问题的解决方案。（ B2， B3， B4， C2， C3， C5）</div>						







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