

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 are becoming increasingly important, immunology 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. based on the existing knowledge of senior high school students. On this basis, we will further discuss the application of immune 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 position of this discipline in the maintenance of human health and the characteristics of the intersection and integration of immunology, technology and other disciplines, which will also inspire the students to explore the frontiers of immunology and related technologies.</p>					

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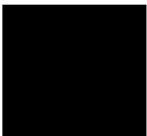
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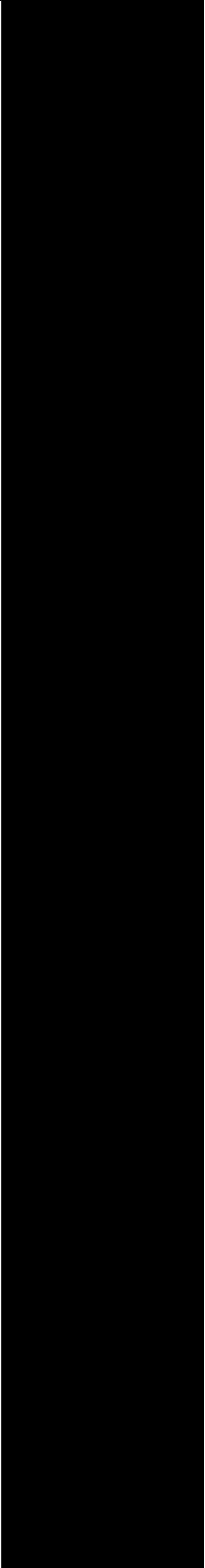
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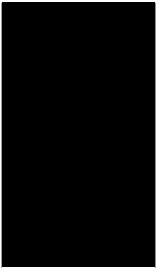
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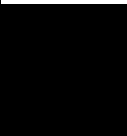


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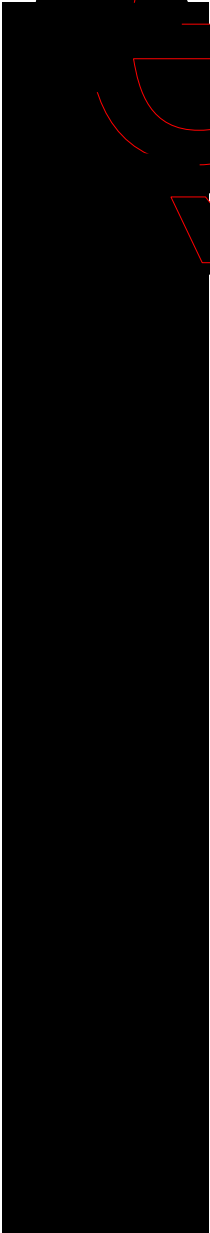
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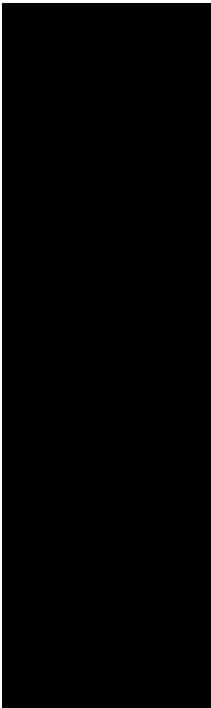
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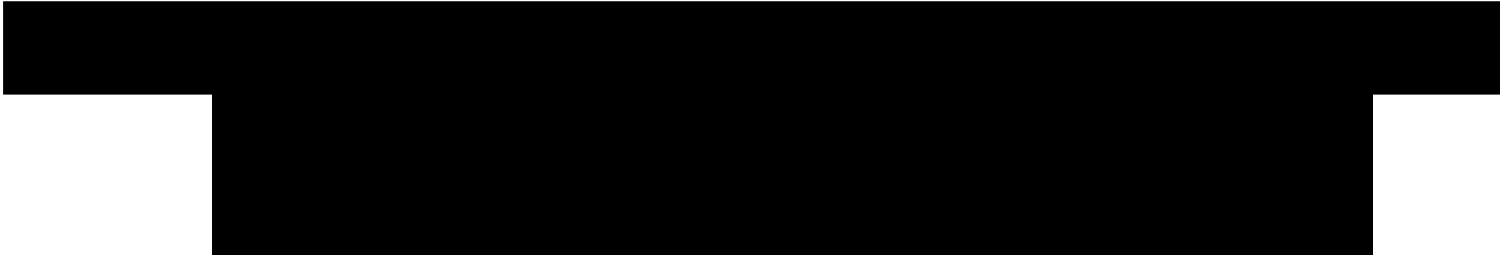


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	<p>The Biomedical Engineering Senior Design course is a required, one and half semester capstone course for undergraduate students. Students work in an individual or in a team to solve real-world, open-ended problems in the field of biomedical engineering. 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&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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	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。 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） 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）						

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	<p>Medical diagnosis has been a hot topic in the field of biomedical engineering. With the rapid development of microfluidic devices, liquid biopsy, and other technologies, medical diagnosis is becoming more precise and efficient. This course aims to introduce students to the latest research and applications in this field, and to provide them with the necessary knowledge and skills to participate in the development of medical diagnosis technology.</p> <p>This course aims to comprehensively introduce students to the basics and applications of medical diagnosis, including the principles and methods of various diagnostic techniques, the design and development of diagnostic devices, and the clinical applications of these technologies. Through this course, students will be able to understand the current status and development trends of medical diagnosis, and be able to design and develop related diagnostic devices and systems.</p>										

