

**课程名称 "Hqt o "hqt"ULVW" I t c f w c v g "Rtqhguukqp" Eqwtugu"**

课程名称 "Hqt o "hqt"ULVW" I t c f w c v g "Rtqhguukqp" Eqwtugu"				
* Course Name	Chinese			
	English Preparation Science of Composite Materials			
* Credits	2	* Teaching Hours	32 1 =16	
* Semester	Fall	* Cross-semester?	No	Spanning over Semesters
* Course Type	Program Elective Course	* Course Type	For full-time students	
* Course Category	Specialized Course	Targeting Students	Doctoral Level	
* Instruction Language	Chinese	Teaching Method	In class teaching	
* Grade	Letter grading			

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Person in charge	Name	ID	School	E-mail
		张荻		

**课程简介 "Hqt o "hqt"ULVW" I t c f w c v g "Rtqhguukqp" Eqwtugu"**

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<p style="text-align: center;">* English Course Description</p>	<p>Based on the teaching of composite materials related courses, this course further provides more cutting-edge and comprehensive professional education for graduate students in materials science and engineering. The focus of this course is to enable students to comprehensively and systematically understand the important basic concepts and theories of composite material preparation science, the preparation process, interface characteristics and structural design in composite material preparation research, as well as the development trend of composite materials, especially advanced composite materials. At the same time, students have the preliminary ability of composite material preparation research and design. It will lay a solid foundation for students to further study and specialized research in the field of composite materials in the future.</p> <p>Through learning, students will have the following abilities:</p> <ol style="list-style-type: none"> <li>1. Master the basic laws of the relationship between the structure, composition, process, equipment, performance and application of composite materials;</li> <li>2. Master the theoretical basis and experimental skills of composite material preparation and engineering research, development design and application, and have the ability of material design, structural design, process design and development of advanced composite materials and products;</li> <li>3. Master the modern testing method of material microstructure and performance and the engineering testing technology of macro production process;</li> <li>4. Master the forming and processing technology and equipment principle of composite materials;</li> <li>5. Understand the frontier development information of composite materials;</li> <li>6. Have strong self-study ability, engineering practice ability and certain innovation ability.</li> </ol>
<p style="text-align: center;">* ( ) Syllabus</p>	<p style="text-align: center;">1 2 3</p> <p style="text-align: center;">1 2 3</p> <p style="text-align: center;">1 2</p> <p style="text-align: center;">1 2</p>

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	<p>6. Introduction to ceramic matrix composite materials: Jia Chengchang, Li Wenxia, Guo Zhimeng, Zhao Jun Metallurgical Industry Press, 1998</p> <p>7. Composite material Wu Renjie, Tianjin University Press, 2000</p> <p>8. Advanced composite materials Lu Yun, Zhu Shijie, Ma mingtu, Pan Fusheng Mechanical Industry Press, 2004</p> <p>9. Structure and properties of composite materials Zou zuhui Science Press, 1999</p>
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