

临床医学专业（六年制中德实验班）本科人才培养计划

Undergraduate Program for Specialty in Clinical Medicine (China and German Medicine class)

一、培养目标

I. Educational Objectives

本专业培养具有良好素质和德语基础的初级医师，这种素质确保其毕业后作为医生时在上级医师指导下，从事安全有效的医疗实践，保证他们有适当的基础能够进行终身学习和在医学某一学科领域内进一步深造，并且在德医学交流中发挥重要作用。

This program aims at cultivating elementary doctors of high quality and Germany basic that guarantees that they can engage in medical practice with effectiveness and security after graduation under the guidance of senior doctors and that they have proper foundation to go on study through their lives and make advanced study in a certain discipline field of medical science, and have contributed greatly to the medical intercommunion with Germany.

二、基本规格要求

II. Learning Outcomes

本专业学生应掌握从事医疗实践工作的医学基础理论、基本知识和基本技能，具备良好的思想道德和职业态度，为毕业后教育打下坚实的基础。

毕业生应获得以下的态度、知识和技能：

Students of this specialty should master basic theory, basic knowledge and basic skills of medicine needed for medical practice and possess good thought and morals and job attitude so as to lay a firm foundation for the continued education after graduation.

Graduates should acquire the following morals, knowledge and abilities:

态 度 要 求

1. 树立科学的世界观、人生观和价值观，具有爱国主义和集体主义精神，愿为医学科学事业发展贡献力量。

2. 树立关爱病人观念，尊重病人人格，保护病人隐私；坚持以预防疾病发生、减轻和驱除患者的病痛为己任，认识到提供临终关怀的道德责任。

3. 充分认识医患沟通与交流的重要性，并积极与病人及病人家属进行交流，使其充分理解和配合诊疗计划的制订与实施。

4. 树立成本效益观念，注重合理用药，选择合理的诊治方案，充分掌握公平有效分配和合理使用有限资源的原则，充分利用可用资源达到康复的最大效益。

5. 树立终身学习观念，充分认识到不断自我完善和接受继续教育的重要性。

6. 树立正确的医学伦理观念，尊重个人信仰，尊重每一个人，理解其人文背景及文化价值。

7. 树立实事求是的科学态度，对超出自己的业务能力而不能有效安全处理的医疗活动，主动寻求其他医师的帮助。

8. 始终将病人及社区的健康利益作为自己的职业责任。

9. 具有创新精神和敢于怀疑、敢于分析批判的精神，具有为新知识产生、新技能的发现做出贡献的意识。

10. 尊重同仁，增强团队意识。

11. 树立依法行医的观念，学会用法律保护病人和自身的权益。

Attitude requirements

1. Establish scientific outlook on world, life and values, have patriotism and collectivism spirit, and wish to contribute to the development of medical science.

2. Establish the idea of caring about patients, respect patients' personality, protect patients' personal secrets; adhere to the prevention of diseases and alleviation of patients' sufferings as your own duty, and realize the ethical responsibility of providing end-of-life care.

3. Fully realize the importance of communications between doctors and patients and communicate with patients and their family members actively so as to make them fully understand and cooperate with the drawing up and implementing of the treatment plan.

4. Establish the cost-effective idea, pay attention to using medicine rationally, choose the proper scheme of diagnosis and treatment, correctly apply the principle of a fair and effective distribution and rational use of the limited resources, and fully utilize the available resources to attain the greatest benefit of rehabilitation.

5. Establish the idea of studying throughout one's life and fully realize the importance of going on unceasing self-perfection and receiving continued education.

6. Establish the idea of medical ethics, respect personal faith, respect every person, and have a good understanding of his humane background and culture value.

7. Establish scientific attitude of seeking truth from facts, when meeting with medical activities which go beyond your professional ability or which you cannot manage effectively and safely, seek the help of other doctors voluntarily.

8. Regard health interests of patient and the community as your own professional responsibility all the time.

9. Establishing the initiative spirit and spirits of daring to doubt and of daring to analyze and criticize, have the ideology of wishing to make contributions to the formation of new knowledge and to the discovery of new skills.

10. Respect colleagues and establish team spirit.

11. Establish the idea of practicing medicine in accordance with the law, and learn how to protect the patients' and also your own rights and interests by using the law.

知 识 要 求

1.基本掌握生物科学、行为科学和社会科学的有关知识和方法，并能够用于指导未来的学习和医学实践。

2.掌握生命各阶段人体的正常结构、功能和心理状态。

3.掌握人体各阶段各种常见病、多发病(包括精神疾病)的发病原因，认识到环境因素、社会因素及行为心理因素对疾病形成与发展的影响，认识到预防疾病的重要性。

4.掌握人体各阶段各种常见病、多发病的发病机理、临床表现、诊断及防治原则。

5.掌握基本的药理知识及临床合理用药原则。

6.掌握正常的妊娠和分娩、产科常见急症、产前和产后的保健原则，以及计划生育的医学知识。

7.掌握健康教育、疾病预防和筛查的原则，掌握缓解与改善疾患和残障、康复以及临终看护的有关知识。

8.掌握临床流行病学的有关知识与方法。

9.掌握常见急症的诊断、急救处理原则。

10.掌握祖国传统医学的基本特点，了解中医的辨证论治原则。

11.掌握传染病的发生、发展、传播的基本规律和常见传染病的防治原则。

Knowledge requirements

1. Grasp the basic knowledge and scientific methods of bioscience, behavior science and social science, and use them for guiding study and medical practice in the future.
2. Master the normal structure, function and psychological condition of the human body at different stages of life.
3. Grasp various kinds of pathogenic factors of common diseases, frequently-occurring diseases (including mental diseases) at different stages of the human body, realize the influence of environmental factors, social factors and behavior psychological factors on the formation and development of diseases, and realize the importance of disease prevention.
4. Grasp the pathogenesis, clinical manifestations and principles for diagnosis, prevention and treatment of common diseases and frequently-occurring diseases at different stages of the human body.
5. Grasp the basic knowledge of pharmacology and principles of rational clinical use of drugs.
6. Grasp normal gestation and childbirth, obstetrical emergency cases, antenatal and postpartum health care principles, and medical knowledge of family planning.
7. Grasp the principles for health education, disease prevention and screening and possess the relevant knowledge of alleviating illnesses and disablement and promoting rehabilitation and hospice nursing.
8. Grasp the relevant knowledge and methods of clinical epidemiology.
9. Grasp the principles of diagnosis and first aid for emergency cases.
10. Grasp the basic characteristics of traditional Chinese medicine and understand the dialectical theory of Chinese medicine.
11. Grasp the basic laws for occurrence, development and spread of infectious disease, and principles for prevention and treatment of common infectious diseases.

技 能 要 求

- 1.具有全面、系统、正确地采集病史和规范书写病历的能力。
- 2.具有系统、规范地进行体格检查及精神检查的能力。
- 3.具有较好的临床思维和表达能力。
- 4.掌握内、外、妇、儿各科常见病、多发病的诊疗常规及常用临床操作规范。
- 5.具有常见急症的诊断、急救及处理能力。
- 6.具有根据具体情况选择使用合适的临床技术，选择最适合、最经济、合乎伦理的诊断、治疗方法的能力。
- 7.具有运用循证医学的原理进行医学实践，完善诊治方法的能力。
- 8.具有与同仁、病人及其家属进行有效交流和调动其合作的能力。
- 9.具有利用各种信息资源和信息技术进行自主学习与研究的能力。
- 10.具有对病人和公众进行有关健康生活方式、疾病预防等方面知识宣传教育的能力。
- 11.具有较强的德语听、说、读、写、译的能力

Skills requirements

1. Have the ability to gather the medical history systemically and write the standard case history correctly.
2. Have the ability of carrying out physical examinations and mental inspections systemically and standardly.
3. Form the habit of thinking in the clinical way and have the ability to express.
4. Grasp the routine diagnosis and common clinical operating specifications of common disease

and frequently-occurring disease within internal medicine, surgery, gynecology and pediatrics.

5. Have the ability of making diagnosis, first aid and managements for emergency cases.

6. Have the ability of choosing and using suitable clinical skills according to concrete conditions and choosing the most suitable, economic, and ethical diagnosis and treatment method.

7. Have the ability of medical practice in terms of principles of evidence based medicine, so as to perfect the diagnosis and treatment.

8. Have the ability of communicating with colleagues, patients and their family members effectively and arousing their cooperation.

9. Have the ability of making use of various kinds of information resources and information technology to keep on study and research independently.

10. Have the ability of carrying out propagation and education to the patients and the public about healthy life style, prevention of diseases, etc.

11. Have the ability of listening, speaking, reading, writing and translating materials in German at relatively high level.

三、培养特色

III. Program Highlights

以器官系统为基础整合医学课程，并将人文、信息、计算机、德语知识与临床医学知识相结合，培养具有良好素质的初级医师。

This program integrates medical curriculum based on the organ and system, and links the knowledge of humanities, information, computer science and German language knowledge with that of clinical medicine so as to broaden the cultivation of elementary doctors of high quality.

四、主干学科

IV. Main Disciplines

基础医学 Preclinical medicine、临床医学 clinical medicine

五、学制与学位

V. Program Length and Degree

学制：基本为六年，实行弹性学制。

Basic system: 6 years, plus flexible system

授予学位：医学学士

Degrees Conferred: Bachelor of medicine

六、学时与学分

VI. Credits Hours and Units

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：335.25 学分

Minimum Credits of Curricular(Comprising course system and intensified internship practical training): 335.25 credits

其中，专业基础课程、专业核心课程学分不允许用其他课程学分进行学分冲抵和替代。

Major-related basic courses and core courses cannot be covered using credits from other courses in the program

完成学业最低课外学分要求：5 学分。

Minimum Extracurricular Credits : 5 credits.

1. 课程体系学时与学分

Course Credits Hours and Units

华中科技大学本科专业人才培养计划

课程类别		课程性质	学时/学分	占课程体系学分比例 (%)
通识教育基础课程		必修	2112/127	42.51
		选修	80/5	1.67
学科基础课程	学科大类基础课程	必修	1016/58.25	19.5
		选修	96/6	2.01
	学科专业基础课程	必修	600/37.5	12.55
		选修	112/7	2.34
专业课程	专业核心课程	必修	864/54	18.08
		选修	64/4	1.34
合计			4944/298.75	100

Course Type		Required / Elective	Hrs/Crs	Percentage (%)
General Education Core Curriculum		Required	2112/127	42.51
		Elective	80/5	1.67
Basic Courses in Discipline	General	Required	1016/58.25	19.5
		Elective	96/6	2.01
	Basic Courses in Discipline	Required	600/37.5	12.55
		Elective	112/7	2.34
Major-specific Courses	Core Courses	Required	864/54	18.08
		Elective	64/4	1.34
Total			4944/298.75	100

2. 集中性实践教学环节周数与学分

Practicum Credits

实践教学环节名称	课程性质	周数/学分	占实践教学环节学分比例 (%)
军事训练	必修	2/1	2.74
入学教育	必修	1/0.5	1.37
毕业教育	必修	1/0.5	1.37
毕业考试	必修	1/0.5	1.37
基础科研	必修	4/2	5.48
临床实习	必修	64/32	87.67
合计		73/36.5	100

Course Title	Required / Elective	Weeks/Credits	Percentage (%)
Military Training	Required	2/1	2.7
Admission education	Required	1/0.5	1.33
Graduation education	Required	1/0.5	2.7
Graduation examination	Required	1/0.5	2.7
Basic Scientific Research	Required	4/2	5.3
Clinical Intern	Required	64/32	85.27
Total		73/36.5	100

3. 课外学分

Extracurricular Credits

华中科技大学本科专业人才培养计划

序号	名称	要 求		课外学分
1*	早期接触临床的教育	第3学年暑假参加2周医疗单位的护理工作，提交实践总结及单位证明，经考核合格者		2.0
2*	预防战略实习(社区实习)	第4学年课外及节假日实习时间累计达到2周(72学时)以上者，提交实习论文，评审合格者		2.0
3	社会实践活动	提交社会调查报告，通过答辩者		1
		个人被校团委或团省委评为社会实践活动积极分子者，集体被校团委或团省委评为优秀社会实践队者		2
4	英语及计算机考试	全国大学英语六级考试	考试成绩达到学校要求者	2
		托福考试	达90分以上者	3
		雅思考试	达6.5分以上者	3
		GRE考试	达1350分以上者	3
		全国计算机等级考试	获二级以上证书者	2
		全国计算机软件资格、水平考试	获程序员证书者	2
			获高级程序员证书者	3
获系统分析员证书者	4			
5	竞赛	校级	获一等奖者	3
			获二等奖者	2
			获三等奖者	1
		省级	获一等奖者	4
			获二等奖者	3
			获三等奖者	2
		全国	获一等奖者	6
			获二等奖者	4
			获三等奖者	3
6	论文	在全国性刊物发表论文	每篇论文	2-3
7	科研	视参与科研项目时间与科研能力	每项	1-3
8	实验	视创新情况	每项	1-3

注：1.参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

2.*标注的项目为必须完成的项目。

No.	Items	Requirements	Credits
1*	Education through labor in the clinic at an early stage	Doing health care or nursing work in a medical unit for 2 weeks in summer of the 3rd academic year, submit a working summary and a unit certificate, being examined and approved	2
2*	Preventive medicine Practice (social practice)	Doing practice in a medical unit or community health center for 2 weeks (or 72 hrs) in all outside class or in holidays during the 4th academic year and submitting a practice report, being assessed and approved	2
3	social practice	Submit report and pass oral defense	1
		Entitled as Activist by the Communist Youth League of HUST or Hubei Province; Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province	2

Continue

No.	Items	Requirements		Credits
4	Examination in English and Computer	CET-6	Students whose Band-6 exam scores accord our requirements	2
		TOEFL	90 Points or Higher	3
		IELTS	6.5 Points or Higher	3
		GRE	1350 Points or Higher	3
		National Computer Rank Examination	Win certificate of Band-3 or higher	2
		National Computer Software Qualification	Win certificate of programmer	2
			Win certificate of Advanced programmer	3
Win certificate of System Analyst	4			
5	Competitions	University Level	Win first prize	3
			Win second prize	2
			Win third prize	1
		Provincial Level	Win first prize	4
			Win second prize	3
			Win third prize	2
		National Level	Win first prize	6
			Win second prize	4
			Win third prize	3
6	Thesis	Those whose thesis appears in national publications	Per piece	2~3
7	Scientific Research	Depending on both the time spent in and ability demonstrated in scientific research project	Each item	1~3
8	Experiments	Depending on innovative extent	Each item	1~3

Notes: 1. In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

2. "*" shows that the item and requirements must be completed by every student.

七、主要课程

VII. Main Courses

德语 German、医学概论（一） Outlines of Medicine I、呼吸系统基础 Foundation of Respiratory System、心血管系统基础 Foundation of Cardiovascular System、消化系统基础 Foundation of Digestive System、贯通课程 Feedthrough Course、物理诊断学 Physical Diagnostics、医学概论（二） Outlines of Medicine II、呼吸系统疾病 Respiratory Disease、循环系统疾病 Cardiovascular Disease、消化系统疾病 Digestive Disease、内分泌系统疾病 Endocrine System Disease、女性生殖系统疾病 Genital System Disease、手术学 Fundamentals of Operation、临床模拟技能训练 Clinical Simulation Skill Training、临床模拟思维训练 Clinical Simulation Thinking Training、预防医学 Preventive Medicine、循证医学 Evidence-based Medicine、医学心理学 Medical Psychology

八、主要实践教学环节（含专业实验）

VIII. Practicum Module (experiments included)

基础科研 Basic Scientific Research、临床实习 Clinical Intern

九、教学进程计划表

IX. Course Schedule

院(系): 同济医学院

专业: 临床医学专业(中德实验班)

School(Department): Tongji Medical college

Specialty: Clinical Medicine(6-year's schooling)

课程类别 course type	课程性质 required/ elective	课程代码 course code	课程名称 course name	学时 hrs	学分 crs	其中 Including			设置学期 semester
						课外 extra-cur.	实验 exp.	上机 operation	
通识教育基础课程 General Education Core Curriculum	必修 Required	0827791	思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law	40	2.5	8			1
	必修 Required	0100721	中国近现代史纲要 Survey of Modern Chinese History	24	1.5	4			2
	必修 Required	0100733	马克思主义原理 Basic Theory of Marxism	40	2.5	8			3
	必修 Required	0100932	思政课社会实践 Social Practice of Ideological and Political Theories Course	32	2	28			2
	必修 Required	0100322	毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics	56	3.5				4
	必修 Required	0100741	形势与政策 Current Affairs and Policy	32	2	14			1-6
	必修 Required	1100011	军事理论 Military Theory	16	1				1
	必修 Required	0510071	中国语文 Chinese	32	2	10			4
	必修 Required	0700019	微积分(二) Calculus(IV)	80	5				1
	必修 Required	0700035	大学物理(四) Physics(IV)	64	4				2
	必修 Required	0700041	物理实验(一) Physics Experiments	32	1		32		2
	必修 Required	0702511	基础化学(二) Basic Chemistry(II)	88	5.5		38		3
	必修 Required	0704081	有机化学(一) Organic Chemistry(I)	96	6		44		4
	必修 Required	0506392	德语(一) German(I)	352	22				1
	必修 Required	0506372	德语(二) German(II)	352	22				2
	必修 Required	0506431	德语(三) German(III)	160	10				3
	必修 Required	0506383	德语(四) German(IV)	152	9.5				4
	必修 Required	0506831	德语(五) German(V)	56	3.5				5

续表

课程类别 course type	课程性质 required/ elective	课程代码 course code	课程名称 course name	学时 hrs	学分 crs	其中 Including			设置学期 semester
						课外 extra-cur.	实验 exp.	上机 operation	
通识教育基础课程 General Education Core Curriculum	必修 Required	0506841	德语(六) German (VI)	56	3.5				6
	必修 Required	0506851	德语(七) German (VII)	32	2				7
	必修 Required	0508453	综合英语(一) Comprehensive English I	56	3.5				3
	必修 Required	0508463	综合英语(二) Comprehensive English II	56	3.5				4
	必修 Required	0827791	计算机与程序设计基础(VB) Fundamental of Computer Programming (VB)	48	3		8		3
	必修 Required	0811163	计算机网络技术及应用 Technology and Application of Computer Network	32	2			8	4
	必修 Required	0400111	大学体育(一) Physical Education(I)	32	1				1
	必修 Required	0400121	大学体育(二) Physical Education(II)	32	1				2
	必修 Required	0400131	大学体育(三) Physical Education(III)	32	1				3
	必修 Required	0400141	大学体育(四) Physical Education(IV)	32	1				4
				人文社科类选修课程 Electives in Humanities and Social Science	80	5			
学科基础课程·学科大类基础 Discipline-related General Courses	必修 Required	0711171	生命科学前沿课程	16	1				1
	必修 Required	0700355	生命科学导论 Introduction to Life Sciences	16	1				3
	必修 Required	1001101	细胞生物学 Cytobiology	64	4	2	24		4
	必修 Required	1003652	心血管系统基础 Foundation of cardiovascular system	72	4.5	5	14		6
	必修 Required	1003642	呼吸系统基础 Foundation of respiratory system	32	2		8		5
	必修 Required	1003672	消化系统基础 Foundation of digestive system	80	5		16		5
	必修 Required	1003662	泌尿生殖系统基础 Foundation of genitourinary system	48	3		13		6
	必修 Required	1011171	骨骼、肌肉、皮肤、头颈、神经系统基础 Foundation of skeleton, Muscle and skin, head and neck, nervous system	128	8	4	41		6
必修 Required	1003632	血液、内分泌、免疫系统基础 Foundation of hematological, endocrine and immunological system	80	5	5	20		6	

续表

课程类别 course type	课程性质 required/ elective	课程代码 course code	课程名称 course name	学时 hrs	学分 crs	其中 Including			设置学期 semester
						课外 extra-cur.	实验 exp.	上机 operation	
学科基础课程·学科大类基础 Discipline-related General Courses	必修 Required	1001071	局部解剖学 Regional Anatomy	72	2.25		72		7
	必修 Required	1003682	感染病学基础 Foundation of infectious disease	152	9.5	4	60		7
	必修 Required	1003692	贯通课程 Feedthrough course	48	3	3			7
	必修 Required	1001221	PBL 专题教学(一) PBL Teaching on a Special Topic (1)	48	3	30			5
	必修 Required	1001232	PBL 专题教学(二) PBL Teaching on a Special Topic (2)	64	4	40			6
	必修 Required	1001041	机能实验 1 Functional Experiments (1)	32	1		32		6
	必修 Required	1001061	机能实验 2 Functional Experiments (2)	64	2		64		7
			医学基础学科类选修课 Electives in Basic Science	96	6				
学科基础课程·学科专业基础 Basic Subdisciplinary Courses	必修 Required	0703501	医学导论 Introduction to Medicine	24	1.5				5
	必修 Required	0507411	医学英语基础 Elementary Medical English	32	2				6
	必修 Required	0506461	医学拉丁语 Medical Latin	16	1				6
	必修 Required	1001752	医学心理学 Medical Psychology	24	1.5				7
	必修 Required	1001301	物理诊断学 Physical Diagnostics	80	5		40		7
	必修 Required	1001392	手术学 Fundamentals of Operation	32	2		28		7
	必修 Required	1003612	医学概论(一) Outlines of Medicine I	208	13	6	73		5
	必修 Required	1003482	医学概论(二) Outlines of Medicine II	56	3.5		4		8-9
	必修 Required	0704591	医学伦理学 Medical Ethics	32	2	4			8-9
	必修 Required	1001771	预防医学 Preventive Medicine	72	4.5		18		8-9
	必修 Required	1001741	循证医学 Evidence-based Medicine	24	1.5				8-9
			专业基础学科类选修课 Electives courses in Discipline Basis	112	7				
	必修 Required	1003491	呼吸系统疾病 Respiratory disease	48	3		8		8-9

续表

课程类别 course type	课程性质 required/ elective	课程代码 course code	课程名称 course name	学时 hrs	学分 crs	其中 Including			设置学期 semester
						课外 extra-cur.	实验 exp.	上机 operation	
专业课程·专业核心 Major-specific Core Course	必修 Required	1003501	循环系统疾病 Cardiovascular disease	56	3.5		12		8-9
	必修 Required	1003512	消化系统疾病 Digestive disease	72	4.5		12		8-9
	必修 Required	1003522	泌尿系统疾病 Urinary disease	40	2.5		6		8-9
	必修 Required	1003701	血液系统疾病 Hematological disease	40	2.5		9		8-9
	必修 Required	1003711	内分泌系统疾病 Endocrine system disease	48	3		3		8-9
	必修 Required	1003722	女性生殖系统疾病 Genital system disease	48	3		3		8-9
	必修 Required	1003732	神经精神系统疾病 Disease of nervous and mental system	72	4.5		6		8-9
	必修 Required	1003741	运动系统疾病 Locomotor disease	40	2.5		3		8-9
	必修 Required	1011181	感染性疾病 Infectious disease	48	3				8
	必修 Required	1001412	眼科学 Ophthalmology	24	1.5	4			8
	必修 Required	1001341	耳鼻咽喉科学 Otolaryngology	24	1.5	4			8
	必修 Required	1001371	皮肤性病学 Dermatology and Venereology	24	1.5	4			8
	必修 Required	1001432	中医学(含针灸) Traditional Chinese Medicine	56	3.5	2			8-9
	必修 Required	1001242	PBL 专题教学(三) PBL Teaching on a Special Topic (3)	192	12	120			8-9
	必修 Required	1003761	临床模拟技能训练 Clinical simulation skill training	16	1		16		10-12
	必修 Required	1003771	临床模拟思维训练 Clinical simulation thinking training	16	1		16		10-12
				专业学科类选修课 optional course in clinical medicine	64	4			
实践环节 Practical Training Items	必修 Required	1300012	军事训练 Military Education	2w	1		2w		1
	必修 Required	1300001	入学教育 Admission Education	1w	0.5		1w		1
	必修 Required	1303821	毕业教育 Graduation Education	1w	0.5		1w		12
	必修 Required	1303811	毕业考试 Graduation Examination	1w	0.5		1w		12

续表

课程类别 course type	课程性质 required/ elective	课程代码 course code	课程名称 course name	学时 hrs	学分 crs	其中 Including			设置学期 semester
						课外 extra-cur.	实验 exp.	上机 operation	
实践环节 Practical Training Items	必修 Required	1303318	内科实习(含社区医学实习1周) Internal Medicine Practice (Community Medicine Practice)	16w	8		16w		10-12
	必修 Required	1303321	外科实习 Surgery Practice	16w	8		16w		10-12
	必修 Required	1303331	妇产科实习 Gynecology Practice	8w	4		8w		10-12
	必修 Required	1303341	儿科实习 Paediatrics Practice	8w	4		8w		10-12
	必修 Required	1303051	眼科实习 Ophthalmology Extern	2w	1		2w		10-12
	必修 Required	1303061	耳鼻咽喉科实习 Otolaryngology Extern	2w	1		2w		10-12
	必修 Required	1303071	皮肤科实习 Dermatology and venerology extern	2w	1		2w		10-12
	必修 Required	1303091	神经及精神病科实习 Neurology extern	4w	2		4w		10-12
	必修 Required	1303101	传染科实习 Lemology (Infectious diseases) extern	4w	2		4w		10-12
	必修 Required	1303111	医学影像学见习 Medical Imaging extern	2w	1		2w		10-12
	必修 Required	1303002	基础科研 Basic Scientific Research	4w	2		4w		7

十、说明

X. Explanations

本专业充分利用综合性大学的优势，实现文、理、医学科的渗透融通，以能力培养为主线，以器官、系统为基础对教学内容进行整合。各门课程应精选和更新教学内容，改进教学方法，强化基础理论、基本知识和基本技能的训练，加强自学能力、实践能力、外语及计算机应用能力和初步科学研究能力的培养，加强早期接触临床，注重基础与临床的渗透，加强医德医风教育，增强预防为主观念，加强文、理知识，提高心理素质，拓宽学生的专业面和知识面，注重人际交流，增强社会适应性，提高学生的整体素质。

在课程改革中，形态学科课程应以减少讲授、增加实验为主；机能学科课程应削减验证性实验，增加综合性实验，提高动手能力；临床课程应减少理论讲授，增加床边教学，以适应国内外医学教育改革的趋势。

1. 教学内容分课内和课外教学，课内教学形式包括大课、小课（讨论课、案例教学等）、实验课、见习、实习等；课外教学是指学生通过课外自主学习、社会实践等形式学习教学大纲要求的教学内容(不包括学生复习)。

2. 以教学方法改革为重点，全面实施 PBL、SANDWICH、模拟教学等多种教学方法改革，以适应国内外医学教育改革的趋势，培养学生自学能力和主动参与学习积极性。

3. 外语教学：开设德语课程和英语课程教学，要求必须通过国家德语四级考试。各门课程应

安排 10%的学时进行专业外语教学，平均每学时至少介绍和反复应用 10 个常用专业外语词汇。每学期至少有 1~2 门课程使用外文教材，采用外语教学。

4. 科研能力训练：采用全程科研训练，分段要求的模式，在公共基础和基础医学课程阶段：安排一定学时的综合性、设计性实验，培养学生科学思维能力和动手能力；暑期实践阶段：第 1~4 学年暑假安排社会实践、早期接触护理、预防战略实习等活动，培养学生实践能力；基础教学阶段：学生在导师指导下，利用业余和集中 4 周的时间开展科研训练，通过提交文献综述、开题报告、研究论文等的形式，培养学生科研能力，并要求第 7 学期（第四学年）完成基础科研论文。

5. 开设《医学导论》，结合课程的学习，假期安排早期接触临床、早期接触护理的实践活动。

6. 按选课的有关规定，选课可跨学校、跨院系、跨专业、跨学年或跨学期选课。

7. 床边教学：第八、九学期临床整合课程教学安排床边教学

8. 临床实习：第十、十一、十二学期安排临床实习。

9. 选修课程的开设是为了加强学个性培养，拓宽知识面，学生可根据自己的兴趣、爱好、学习进程自由选择，除体育选修课程外，其他群类的划分和建议选修课程仅供学生选课时的参考。

10. 课外学分除学生应完成的项目外，前十一学期尚未修满者，第十二学期可用选修课程学分替换。

11. 采用优胜劣汰的学籍管理办法。

The specialty makes full use of the superiority of a comprehensive university and realizes infiltration and communication between liberal arts, science and medicine in order to cultivate, with the development of abilities as the mainline. With the integration basing on the organs and system, Every course should carefully select and renew teaching content and improve teaching methods; strengthen the training of basic theory, basic knowledge and basic skills; enhance the cultivation of self-study ability, practice ability, foreign language and computer application ability, and preliminary ability in scientific research; pay attention to an early contact with clinic, the infiltration between basis and clinic and the concept of prevention first; lay stress on the imparting of knowledge of liberal arts and science, broaden students' range of specialty and knowledge; improve psychological quality and medical ethics; pay attention to interpersonal communication and promote social adaptation.

In the curriculum reform, particular attention should be given to the following ways: morphological courses should reduce theoretical teaching and increase experiments, functional courses should reduce testifying experiments and increase comprehensive experiments, improving the students' ability of doing by themselves; clinical courses should reduce theoretical teaching and increase bed-side teaching so as to adapt the tendency of reform and development of medical education abroad and at home.

1. Teaching content is passed on both in class and outside class. Forms of in-class teaching consist of big class, small class (discussion, case analysis, etc.), experiments, extern, intern and so on; outside-class teaching indicates that students learn the teaching content of the syllabus by way of automatic study outside class, social practice and other forms (not including students' regular reviewing of their lessons).

2. Teaching method reform: With the emphasis on teaching method reform, multiple methods should be adopted, such as PBL teaching, Sandwich teaching, Simulation teaching, so as to adapt to the tendency of the medical education reform and development both at home and abroad, and train students' ability of self-study and the initiative of participating in learning.

3. Foreign language teaching: General foreign language adopts German course and English course, and requires that every student must pass the National College German Test Band Four.

Specialized foreign language teaching offers at least 10% of the class hour of foreign language studying for every courses as well as the course “Elementary medical English”. At least 10 common specialized foreign vocabularies should be introduced and used repeatedly within every class hours. At least 1 to 2 courses adopt foreign language textbooks or foreign language teaching in every semester.

4. Research ability training: Ability training for scientific research should be carried out through all links in the teaching process and different requirements at different stages. At the stage of common basic courses and basic medical courses, students should do comprehensive experiments and designing experiments to develop scientific thinking ability and the ability to join in the experiments. At the stage of summer vacation practice, 1st --4th year students are asked to go in for social practice, early contact with nursing and preventive medicine activities to develop their practice ability. At the stage of basic medicine teaching, students, under the guidance of their advisers, receive research training by using after-class time and a period of 4 weeks for this special purpose, and by way of handing in general reviews of medical literature, making topic-opening reports and writing a research paper to develop their research ability. The research paper must be completed by the 7th semester in the 4th year.

5. Offering the course “Introduction to Medicine”: Combined with the study of this course, practice activities for early contact with clinic and nursing should be arranged in holidays.

6. According to the regulations concerned about course selection, courses can be selected in a way of interschool, intercollege, interspecialty, cross-academic year or cross-semester.

7. Bed-side Teaching: Bed-side Teaching in the medical integrational curriculum are arranged in the 8th , 9th semesters.

8. Clinical practice: Graduation intern are arranged in the 10th , 11th, 12th semesters.

9. The purpose of offering elective courses is to strengthen the students’ individual character development and broaden their range of knowledge. Students can select any of them according to their interest, need and course schedule and finish the selective corresponding credits that required for every courses.

10. Outside-class credits: If students have finished the fixed items haven’t completed all the rest up to the 11th semester, the missing credits can be made up by those of elective course in the 12th semester

11. The “survival of the fittest” system is adopted for the administration of student records.

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十一、基准学期进程安排表

第一学期							第二学期						
课 程	课 内			课 外	总学时	学分	课 程	课 内			课 外	总学时	学分
	大 课	小 课	实 验					大 课	小 课	实 验			
德语（一）	352				352	22.0	德语（二）	352				352	22.0
微积分（二）	80				80	5.0	中国近现代史纲要	4			20	24	1.5
生命科学前沿课程	16				16	1.0	思政课社会实践	4		28		32	2.0
军事理论	16				16	1.0	大学物理(四)	64				64	4.0
入学教育	1w				1w	0.5	物理实验（一）			32		32	1.0
军事训练	2w				2w	1.0	大学体育(二)			32		32	1.0
大学体育(一)			32		32	1.0							
思想道德修养与法律基础	32			8	40	2.5							
合 计	496/ 3w		32	8	536/3w	34.0	合 计	424	0	92	20	536	31.5
总计	528/3w			8	536/3w	34.0	总计	516			20	536	31.5
无选修课程					536/3w	34.0	选修课程 2.0					568	33.5
第三学期							第四学期						
课 程	课 内			课 外	总学时	学分	课 程	课 内			课 外	总学时	学分
	大 课	小 课	实 验					大 课	小 课	实 验			
马克思主义原理	32			8	40	2.5	毛泽东思想和中国特色社会主义理论体系概论	56				56	3.5
生命科学导论	16				16	1.0	细胞生物学	38		24	2	64	4.0
VB 面向对象程序设计与实践	40		8		48	3.0	有机化学(一)	52		44		96	6.0
基础化学（二）	50		38		88	5.5	计算机网络技术及应用	24		8		32	2.0
德语（三）	160				160	10.0	中国语文	32				32	2.0
综合英语(一)	56				56	3.5	德语（四）	152				152	9.5
大学体育(三)			32		32	1.0	综合英语(二)	56				56	3.5
							大学体育(四)			32		32	1.0
合 计	354		78	8	440	26.5	合 计	410		108	2	520	31.5
总 计	432			8	440	26.5	总 计	518			2	520	31.5
选修课程 4.0					504	30.5	选修课程 3.0					568	34.5
第五学期							第六学期						
课 程	课 内			课 外	总学时	学分	课 程	课 内			课 外	总学时	学分
	大 课	小 课	实 验					大 课	小 课	实 验			
德语（五）	56				56	3.5	德语（六）	56				56	3.5
医学导论	24				24	1.5	医学英语基础	32				32	2.0
医学概论（一）	119	16	73		208	13.0	医学拉丁语		16			16	1.0
消化系统基础	55	9	16		80	5.0	形势与政策	32				32	2.0
呼吸系统基础	24		8		32	2.0	心血管系统基础	53	4	10	5	72	4.5
PBL 专题教学 1	18			30	48	3.0	泌尿生殖系统基础	32	3	13		48	3.0
							骨骼、肌肉、皮肤、头颈、神经系统基础	67	16	41	4	128	8.0
							血液、内分泌、免疫系统基础	43	12	20	5	80	5.0
							机能实验（1）			32		32	1.0
							PBL 专题教学 2	24			40	64	4.0
合 计	296	25	97	30	448	28	合 计	339	51	116	54	560	34
总 计	418			30	448	28	总 计	506			54	560	34
选修课程 4.0					512	32	无选修课程					568	34.5

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第七学期							第八、九学期						
课 程	课内			课 外	总学时	学分	课 程	课内			课 外	总学时	学分
	大 课	小 课	实 验					大 课	小 课	实 验			
德语（七）	32				32	2.0	医学伦理学	28			4	32	2.0
感染病学基础	82	6	60	4	152	9.5	预防医学	54		18		72	4.5
贯通课程	31	14		3	48	3.0	医学概论（二）	52		4		56	3.5
机能实验 2			64		64	2.0	呼吸系统疾病	40		8		48	3.0
局部解剖学			72		72	2.25	循环系统疾病	44		12		56	3.5
手术学	4		28		32	2.0	消化系统疾病	60		12		72	4.5
物理诊断学	38	2	40		80	5.0	泌尿系统疾病	34		6		40	2.5
医学心理学	24				24	1.5	血液系统疾病	31		9		40	2.5
基础科研			4w		4w	4.0	内分泌系统疾病	45		3		48	3.0
							女性生殖系统疾病	45		3		48	3.0
							运动系统疾病	37		3		40	2.5
							中医学（含针灸学）	54			2	56	3.5
							循证医学	24				24	1.5
							神经精神系统疾病	72				72	4.5
							感染性疾病	48				48	3.0
							PBL 专题教学 3	72			120	192	12.0
合 计	211	22	264/4w	7	504/4w	29.25	合 计	740	0	78	126	944	59.0
总 计	497/4w			7	504/4w	29.25	总 计	818			126	944	59.0
选修课程 5.0 学分					552/4w	34.25	无选修课程				944	59.0	
第十、十一、十二学期													
课 程	课内			课 外	总学时	学分	课 程	课内			课 外	总学时	学分
	大 课	小 课	见 习					大 课	小 课	实 习			
临床模拟技能训练		16			16	1.0	内科实习(含社区医学实践)			16w		16w	8.0
临床模拟思维训练		16			16	1.0	外科实习			16w		16w	8.0
眼科学	20			4	24	1.5	妇产科实习			8w		8w	4.0
耳鼻咽喉科学	20			4	24	1.5	儿科实习			8w		8w	4.0
皮肤性病科学	20			4	24	1.5	神经及精神病科实习			4w		4w	2.0
眼科学实习			2w		2w	1.0	感染科实习			4w		4w	2.0
耳鼻喉科实习			2w		2w	1.0	毕业考试			1w		1w	0.5
皮肤科实习			2w		2w	1.0	毕业教育			1w		1w	0.5
医学影像学实习			2w		2w	1.0							
合 计	60	32	8w	12	104/8w	10.5	合 计			58w		58w	30.0
总 计					104/8w	10.5	总 计					58w	30.0
选修课程 4.0											104/58w	34.0	