

八年制医学教育人才培养计划

Program for 8-Year Schooling Medical Talents of Huazhong University of Science and Technology

一、培养目标

I. Program Objective

本专业培养适应我国经济、社会发展的需要，具有良好的职业道德，较宽厚的人文社会科学和自然科学基础，较扎实的医学理论基础，较强的自学能力、实践能力、临床能力、科研能力、沟通能力和信息处理能力，较好的创新精神和综合素质，并具有参与国际合作与竞争潜能的医学人才（医学博士）。

This program aims at cultivating high level medical talents who adapt themselves to the needs of economical and social development of our country, possess good professional morals, broad foundation of humane social science and natural science, firm medical theoretical knowledge, strong abilities in self-study, practice, clinical work, scientific research, social intercommunication and information management, and have innovative spirit and comprehensive quality as well as the potential for international cooperation and competition.

二、基本规格要求

II. Learning Outcomes

本专业学生应具有从事临床实践和医学研究的能力，为毕业后进一步深造打下坚实的基础。毕业生应获得的思想道德和职业态度、人文社会科学、自然科学和医学的知识和技能的具体要求如下：

Students of this specialty should have the ability to be engaged in clinical practice and scientific research., laying a firm foundation for advanced study after graduation. Graduates should acquire the following thought and morals and job attitude, knowledge of humane social science, natural science and medical science and related skills.

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、尊重病人人格、保护病人隐私的观念，树立以预防疾病发生、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. 始终将病人及社区的健康利益作为自己的职业责任。
8. 具有严谨求实的科学研究态度，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。
9. 尊重同仁，具有较强的团队协作、国际合作和竞争的意识。

10. 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 medicines rationally, choose a 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 cultural value.

7. Regard health interests of patients and the community as your own professional responsibility all the time.

8. Establish scientific attitude of being careful and prudent and seeking truth from facts, establish the initiative spirit and spirits of daring to doubt and of daring to analyze and criticize, and have the ideology of wishing to make contributions to the formation of new knowledge and to the discovery of new skills.

9. Respect colleagues and establish spirit of team collaboration, international cooperation and competition.

10. 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. 具有宽厚的人文社会科学知识和自然科学基础。

2. 较好地掌握生物科学、行为科学和社会科学的有关知识和方法。

3. 较好地掌握生命各阶段的人体的正常结构和功能代谢，正常的心理状态。

4. 较好地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、发病机理、病理变化、临床表现、诊断及防治原则；认识到环境因素、社会因素、行为心理因素及遗传因素对疾病形成与发展的影响，认识到预防疾病的重要性。

5. 较好地掌握基本的药理知识及临床合理用药原则。

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

7. 较好地掌握健康教育、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. 较好地掌握临床流行病学和循证医学的有关知识与方法。

9. 较好地掌握临床常见急症的诊断、急救处理原则，并用于临床实践。

10. 较好地掌握祖国传统医学的基本特点、树立整体观念，了解中医的辨证论治原则。

11. 较好地掌握传染病的发生、发展以及传播的基本规律，熟悉常见传染病的防治原则。

Knowledge Requirements

1. Building up a broad foundation of humane social science and natural science.
2. Grasp the basic knowledge and scientific methods of bioscience, behavior science and social science.
3. Master the normal structure, functional metabolism and psychological condition of the human body.
4. Grasp various kinds of pathogenic factors, pathogenic mechanisms, pathological changes, clinical manifestations, diagnosis, and principles of treatment and prevention 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 hereditary factors on the formation and development of diseases, and realize the importance of disease prevention.
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 and evidence-based medicine.
9. Grasp the principles of diagnosis and first aid for emergency cases frequently seen in clinical medicine.
10. Grasp the basic characteristics of traditional Chinese medicine, holding the view of human body as a whole and understand the dialectical theory of Chinese medicine.
11. Grasp the basic laws for occurrence, development and spread of infectious diseases and get familiar with the 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中英文病历的能力。
2. 具有系统、规范地进行体格检查及精神检查的能力。
3. 具有较强的临床思维和分析解决临床问题的能力。
4. 具有独立处理常见病、多发病的诊断和治疗能力。
5. 具有临床常见急症的诊断、急救处理能力。
6. 具有常见传染病的防治能力。
7. 具有良好的人际沟通能力，能与同仁、病人及其家属进行有效交流和调动其合作的能力。
8. 具有较强的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的宣传教育和指导能力。
9. 具有较强的信息处理能力，熟练利用信息资源、信息技术进行自主学习与自我提升的能力。
10. 具有较强的医学科学研究能力、教学能力和临床管理能力。
11. 熟练掌握一门外语，能熟练地阅读本专业外文文献，具有较强的听、说、读、写的外语应用能力。

Skills Requirements

1. Have the ability of gathering medical history and writing case history correctly in both Chinese and English.
2. Have the ability of carrying out physical examinations and medical spirit inspections

systematically and standardly.

3. Have good clinical thinking and ability to analyze and solve clinical problems.

4. Have the ability of handling independently the diagnosis and treatment of common diseases and frequently-occurring diseases

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

6. Have the ability of preventing and treating common infectious diseases.

7. Have the ability in interpersonal communication and be able to communicate with colleagues, patients and their family members effectively and arouse their cooperations.

8. Be able to carry out propagation and education to patients and the public about healthy life style, prevention of diseases, etc.

9. Have the ability of dealing with information and making good use of various kinds of information resources and information technology to carry on independent study and self-promotion.

10. Have the ability of carrying out medical scientific research, medical teaching and clinical management.

11. Have a good mastery of a foreign language, being able to read fluently medical literature of your own specialty and to have the ability of applying the language in listening, speaking and writing.

三、培养特色

III. Program Highlights

培养具有较宽厚的人文社会科学和自然科学知识基础、扎实的医学理论知识基础、较强的临床能力、较高的科研能力的医学人才，使他们具有较大的发展潜力和参与国际竞争能力。

This program cultivates high level medical talents having broad foundation of humane social science and natural science, firm medical theoretical knowledge, and strong abilities in clinical work and scientific research, so as to have great potential for development and strong ability to be involved in international competition.

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：基本为八年。

Basic system: 8 years

授予学位：医学博士

Doctoral degree 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：401.7 学分

Minimum credits of curriculum (comprising course credits hours and units and practicum credits): 401.7 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：10 学分。

Minimum Extracurricular Credits: 10 credits.

1. 课程体系学时与学分

Course Credits Hours and Units

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	1744/101.6	30.40
		选修	160/10.0	2.99
学科基础课程	学科基础课程	必修	1888/112.1	33.54
		选修	96/6.0	1.80
专业课程	专业核心课程	必修	1576/98.5	29.47
		选修	96/6.0	1.80
合 计			5560/334.2	100

Course Type		Required /Elective	Hrs/Crs	Percentage (%)
General Education Core Curriculum		Required	1744/101.6	30.40
		Elective	160/10.0	2.99
Discipline-related Courses	Discipline-related General Courses	Required	1888/112.1	33.54
		Elective	96/6.0	1.80
Major-specific Courses	Major-specific Core Courses	Required	1576/98.5	29.47
		Elective	96/6.0	1.80
Total			5560/334.2	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	2/1.0	1.48
入学教育	必修	1/0.5	0.74
毕业教育	必修	1/0.5	0.74
毕业考试	必修	1/0.5	0.74
基础科研	必修	6/3.0	4.44
临床见习	必修	6/3.0	4.44
临床实习	必修	54/28.5	42.22
临床二级选科实习	必修	40/20.0	29.64
临床研究	必修	20/10.0	14.82
临床技能考试	必修	1/0.5	0.74
合计		132/67.5	100

Course Title	Required /Elective	Weeks/Credits	Percentage (%)
Military Training	Required	2/1.0	1.48
Admission education	Required	1/0.5	0.74
Graduation education	Required	1/0.5	0.74
Graduation examination	Required	1/0.5	0.74
Basic scientific research	Required	6/3.0	4.44
Clinical Extern	Required	6/3.0	4.44
Clinical Intern	Required	54/28.5	42.22
Clinical practice(2 nd -grade selective course)	Required	40/20.0	29.64
Clinical research	Required	20/10.0	14.82
Clinical skills examination	Required	1/0.5	0.74
Total		132/67.5	100

华中科技大学本科专业人才培养计划

3. 课外学分

Extracurricular credits

序号	名称	要 求		课外学分	
1*	早期接触临床的教育	第一 阶段	第 3、4 学年基础医学课程学习阶段，每 1—2 周安排 1 个单元时间跟导师开展医疗见习，并按要求完成学生日志者	4	
		第二 阶段	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	
2*	预防战略实习(社区实习)	第 5 学年暑假参加 2 周社区实践活动，考核合格者		2	
3	英语及计算机考试	全国大学英语六级考试		六级优秀，且口语考试合格者	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		
4	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	
5	论文	在全国性刊物发表论文	每篇论文	2—3	
6	科研	视参与科研项目时间与科研能力	每项	1—3	
7	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 labour in the clinic at an early stage	1st	Doing the probation of medical treatment following the teachers in a medical unit every 1 or 2 weeks ,and finishing the student's log book during the stage of basic medical courses learning in the 3rd and 4th academic year	4	
		2nd	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 3rd academic year and submitting a practice report, being assessed 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 5rd academic year and submitting a practice report, being assessed and approved		2	
3	Examination in English and Computer	CET-6		Win certificate of Band-6 or higher	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

continue

No.	Items	Requirements	Credits	
3	Examination in English and Computer	National Computer Software Qualification	Win certificate of programmer	2
			Win certificate of Advanced programmer	3
			Win certificate of System Analyst	4
4	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
5	Thesis	Those whose thesis appears in national publications	Per piece	2-3
6	Scientific Research	Depending on both the time spent in and ability demonstrated in scientific research project	Each item	1-3
7	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

学术英语读写 Academic English reading and writing、微积分（一）（下）Calculus(II)、无机及分析化学（含实验）Inorganic and Analytical Chemistry、大学物理（一）College Physics(1)、普通生物学（二）General Biology(2)、物理化学（含实验）Physical Chemistry、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, (including Evidence-based Medicine)、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)

临床见习 Clinical Extern、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: 八年制医学教育

School(Department): Tongji Medical College

Specialty: 8-Year Schooling Medical Education

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	0301902	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	32	2.0	8			2
	必修 Required	0100733	马克思主义基本原理 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	24	1.5	20			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 Situation and Policy	32	2.0	14			1-6
	必修 Required	0100711	自然辩证法 Natural Dialectics	48	3.0				4
	必修 Required	0510071	中国语文 Chinese	32	2.0	10			2
	必修 Required	1100011	军事理论 Military Theory	16	1.0				1
	必修 Required	0706871	微积分(一)(上) Calculus(I)	80	5.0				1
	必修 Required	0704531	无机及分析化学(含实验) Inorganic and Analysis Chemistry (including experiments)	96	6.0		32		1
	必修 Required	0700355	生命科学导论 Introduction to Life Sciences	16	1.0				1
	必修 Required	0706881	微积分(一)(下) Calculus(II)	80	5.0				2
	必修 Required	0700048	大学物理(一) Physics(I)	64	4.0				2
	必修 Required	0706891	物理实验(一) Physics Experiments	32	1.0		32		2
	必修 Required	0700049	大学物理(二) Physics(II)	64	4.0				3
	必修 Required	0706901	物理实验(二) Physics Experiments	24	0.8		24		3

华中科技大学本科专业人才培养计划

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	0704511	有机化学(含实验) Organic Chemistry	96	6.0		32		2
	必修 Required	0700691	仪器分析 Instruments Analysis	32	2.0				3
	必修 Required	0700698	仪器分析实验 Instruments Analysis Experiments	32	1.0		32		3
	必修 Required	0705941	概率论与数理统计 Probability Theory & Mathematical Statistics	40	2.5				3
	必修 Required	0508453	综合英语(一) Comprehensive English I	56	3.5				1
	必修 Required	0508463	综合英语(二) Comprehensive English II	56	3.5				2
	必修 Required	0545661	学术英语听说 Academic English listening and speaking	32	2.0				3
	必修 Required	0545671	学术英语读写 Academic English reading and writing	32	2.0				4
	必修 Required	0827791	计算机与程序设计基础(VB) Fundamental of Computer Programming (VB)	48	3.0			8	1
	必修 Required	0811161	计算机网络技术及应用 Technology and Application of Computer Network	48	3.0			16	3
	必修 Required	0833171	数据库技术及应用 Database Techniques	48	3.0			12	4
	必修 Required	0704551	普通生物学(二) General Biology(2)	72	4.5				3
	必修 Required	0704561	普通生物学实验(二) General Biological Experiments	24	0.8		24		3
	必修 Required	0700054	线性代数 Linear Algebra	40	2.5				4
	必修 Required	0703732	物理化学(含实验) Physical Chemistry (including experiments)	80	5.0		24		4
	必修 Required	0704621	实验动物学 Laboratory Animal Science	32	2.0		16		4
	必修 Required	0700993	生物物理学 Biophysics	40	2.5				4
	必修 Required	0704581	生物信息学概论 Bioinformatics	32	2.0				4
	必修 Required	0400111	大学体育(一) Physical Education(I)	32	1.0				1
	必修 Required	0400121	大学体育(二) Physical Education(II)	32	1.0				2

华中科技大学本科专业人才培养计划

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	
	必修 Required	0400131	大学体育(三) Physical Education(III)	32	1.0				3
	必修 Required	0400141	大学体育(四) Physical Education(IV)	32	1.0				4
			人文社科类选修课程 Electives in Humanities and Social Science	160	10.0				
学科基础课程 Discipline-Related General Courses	必修 Required	0506461	医学拉丁语 Medical Latin	16	1.0				5
	必修 Required	1103172	医学文献检索 Medical Literature Retrieval	32	2.0		12		5
	必修 Required	0703501	医学导论 Introduction to Medicine	24	1.5				5
	必修 Required	1001721	医学统计学 Medical Statistics	64	4.0		22		5
	必修 Required	1001751	医学心理学 Medical Psychology	32	2.0				5
	必修 Required	1003611	医学概论(一) Outlines of Medicine I	224	14.0	3	94		5
	必修 Required	1003631	血液、内分泌及免疫系统基础 Foundation of hematological, endocrine and immunological system	104	6.5		38		6
	必修 Required	1003641	呼吸系统基础 Foundation of respiratory system	24	1.5		6		6
	必修 Required	1003651	心血管系统基础 Foundation of cardiovascular system	64	4.0	1	17		6
	必修 Required	1003781	临床基本技能 Clinical Basical Skill	16	1.0				6
	必修 Required	1001661	社会医学 Social Medicine	32	2.0				6
	必修 Required	1003661	泌尿生殖系统基础 Foundation of genitourinary system	56	3.5	4	23		6
	必修 Required	1003671	消化系统基础 Foundation of digestive system	64	4.0	4	14		6
必修 Required	1001044	机能实验 1 Functional Experiments (1)	40	1.3		40		6	
	必修 Required	1011171	骨骼、肌肉、皮肤、头颈、神经系统基础 System of head-neck-skin -locomotor-nervous	128	8.0	2	51		7
	必修 Required	1003681	感染病学基础 Foundation of infectious disease	144	9.0		58		7
	必修 Required	1001773	预防医学 Preventive Medicine	48	3.0				7

华中科技大学本科专业人才培养计划

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 Discipline-related General Courses	必修 Required	1001073	局部解剖学 Regional Anatomy	88	2.8		88		7
	必修 Required	1003691	贯通课程 Feedthrough course	112	7.0	1	35		8
	必修 Required	1001065	机能实验 2 Functional Experiments (2)	64	2.0		64		8
	必修 Required	1001304	物理诊断学 Physical Diagnostics	88	5.5		42		8
	必修 Required	1001791	临床流行病学 Clinical Epidemiology	48	3.0		12		8
	必修 Required	0704571	医学伦理学 Medical Ethics	24	1.5				8
	必修 Required	1001221	PBL 专题教学 (一) PBL Teaching on a Special Topic(1)	48	3.0	30			5
	必修 Required	1001231	PBL 专题教学 (二) PBL Teaching on a Special Topic(2)	96	6.0	60			6
	必修 Required	1001241	PBL 专题教学 (三) PBL Teaching on a Special Topic(3)	128	8.0	80			7
	必修 Required	1001252	PBL 专题教学 (四) PBL Teaching on a Special Topic(4)	80	5.0	50			8
				医学基础学科类选修课 Elective courses in Basic Medicine					
专业核心课程 Major-specific Core Courses	必修 Required	1001392	手术学 Fundamentals of Operation	32	2.0		28		9
	必修 Required	1003481	医学概论 (二) Outlines of Medicine II	96	6.0		12		9
	必修 Required	1003491	呼吸系统疾病 Respiratory disease	48	3.0	2	16		9
	必修 Required	1003501	循环系统疾病* Cardiovascular disease	56	3.5		16		9
	必修 Required	1003511	消化系统疾病 Digestive disease	96	6.0	4	32		9
	必修 Required	1003521	泌尿系统疾病 Urinary disease	56	3.5		16		9
	必修 Required	1003701	血液系统疾病 Hematological disease	40	2.5		16		10
	必修 Required	1003711	内分泌系统疾病* Endocrine system disease	48	3.0		16		10
	必修 Required	1003721	女性生殖系统疾病 Genital system disease	64	4.0		24		10
	必修 Required	1003732	神经精神系统疾病 Disease of nervous and mental system	72	4.5		24		10

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	
专业核心课程 Major-specific Core Courses	必修 Required	1003741	运动系统疾病 Locomotor disease	40	2.5		16		10
	必修 Required	1003751	感染性疾病 Infectious disease	64	4.0		24		10
	必修 Required	1001431	中医学(含针灸学) Traditional Chinese medicine	64	4.0		8		11
	必修 Required	1001481	口腔医学 Stomatology	24	1.5	4			11
	必修 Required	1001501	急诊医学 Emergency Medicine	24	1.5				11
	必修 Required	1001491	康复医学 Rehabilitative Medicine	24	1.5	4			11
	必修 Required	1001601	法医学 Forensic Medicine	24	1.5				11
	必修 Required	1001411	眼科学 Ophthalmology	32	2.0	2			11
	必修 Required	1001342	耳鼻咽喉科学 Otolaryngology	32	2.0	2			11
	必修 Required	1001372	皮肤性病学 Dermatology and Venereology	32	2.0	2			11
	必修 Required	1001461	循证医学 Evidence-based Medicine	16	1.0				11
	必修 Required	1003761	临床模拟技能训练 Clinical simulation skill training	16	1.0				12-13
	必修 Required	1003771	临床模拟思维训练 Clinical simulation thinking training	16	1.0				12-13
	必修 Required	1001261	PBL 专题教学(五) PBL Teaching on a Special Topic(5)	128	8.0	80			9
	必修 Required	1001272	PBL 专题教学(六) PBL Teaching on a Special Topic(6)	192	12.0	120			10
	必修 Required	1001282	PBL 专题教学(七) PBL Teaching on a Special Topic(7)	80	5.0	50			11
	必修 Required	1003811	PBL 专题教学(八) PBL Teaching on a Special Topic(8)	160	10.0	100			12-13
				专业学科类选修课 Elective Courses in Clinical Medicine	96	6.0			
	必修 Required	1300013	军事训练 Military Training	2w	1.0				1
	必修 Required	1300002	入学教育 Admission Education	1w	0.5				1
	必修 Required	1303822	毕业教育 Graduation Education	1w	0.5				16

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	1303812	毕业考试 Graduation Examination	1w	0.5				16
	必修 Required	1303004	基础科研 Basic Scientific Research	6w	3.0				5-8
	必修 Required	1303053	眼科学见习 Ophthalmology Extern	2w	1.0				11
	必修 Required	1304491	耳鼻咽喉科学见习 Otolaryngology Extern	2w	1.0				11
	必修 Required	1303944	皮肤性病学见习 Dermatology and Venerology Extern	2w	1.0				11
	必修 Required	1304501	感染病学实习 Lemology Intern	3w	1.5				12-13
	必修 Required	1304511	神经精神病学实习 Neurology and Psychiatry Intern	3w	1.5				12-13
	必修 Required	1304521	医学影像学实习 Medical Imaging Intern	3w	1.5				12-13
	必修 Required	1304531	内科学实习（含社区医学实习2周） Internal Medicine intern	16w	8.0				12-13
	必修 Required	1304541	外科学实习 Surgery Intern	16w	8.0				12-13
	必修 Required	130333e	妇产科学实习 Gynecology Intern	8w	4.0				12-13
	必修 Required	130334f	儿科学实习 Pediatrics Intern	8w	4.0				12-13
	必修 Required	1303782	临床二级选科实习 Clinical Practice of 2nd Elective Discipline	40w	20.0				14-16
	必修 Required	1304451	临床研究（博士论文） Clinical Research (Doctoral Thesis)	20w	10.0				14-16
	必修 Required	1303802	临床技能考试 Clinical Skills Examination	1w	0.5				16

十、说明

X. Explanations

本专业学生凡修满教学计划所规定的 496 学分，其中必修 464 学分，选修 32.0（含课外 10 学分）学分，经德、智、体诸方面全面考核，达到本专业培养目标和业务培养要求者，准予毕业，颁发毕业证书。达到博士学位授予条件者，经校学位委员会审定，颁发中华人民共和国医学博士学位证书。

本专业遵循“八年融通，整体优化，强化基础，注重临床，培养能力，提高素质”的办学原则，充分利用综合性大学的优势，实现文、理、医学科的渗透融通，以培养具有良好的职业道德，较宽厚的人文社会科学、自然科学知识，较扎实的医学基础理论、基本知识和基本技能，科研能力强的高素质医学人才为目标，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，强化人文社会科学、自然科学、医学理论知识和医学基本实践技能的训练，扩大学生自主学习空间，加强自学能力、临床能力、外语及信息技术应用能力和科学研究能力的培养，注重早期接触临床，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，注重人际交往，增强社会适应性，提高学生的整体素质。

1.1-4 学期，充分利用综合院校的有利条件，以培养学生基本素质和健全人格，训练学生的思维能力和基本技能为目标，加强人文社会科学、自然科学和生命科学、计算机知识（10 学分选修学分全部限选人文社会科学、自然科学类课程）训练与应用的通识教育，奠定宽厚的人文社会和自然科学知识基础。

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. 教学内容分课内和课外教学，课内教学形式主要以小课教学为主（包括 PBL、SANDWICH、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。

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 1~5 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 6 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 8 学期（第四学年）完成基础科研论文；临床教学阶段：进入临床教学后，在学位导师的指导下，结合临床实践完成博士毕业论文。

基础阶段科研与临床阶段科研可连续进行。每学期至少有一门主要课程必须完成 1 篇文献综述。

5. 外语能力训练：采取全程持续不间断的培养方式，注重外语应用能力的培养。公共英语部分，要求学生前两学年通过国家英语六级考试；在保证课程教学质量的前提下，采用全英语或双语教学；临床通科实习阶段，必须完成 10 份英语病例的书写；课程考试安排一定比例的英语试题。

6. 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。第 10 学期假期安排预防战略实习，以社区医学实践为主。

7. 临床教学（从第 9 学期起）采用床边教学的教学方式，培养学生临床能力；第 12-13 学期通科实习内科实习中安排 2 周社区医学实习；第 14-16 学期进行二级学科分科实习和不脱离临床工作的临床医学科学研究，完成博士学位论文。

8. 为了加强学生个性培养，拓宽知识面，学生可根据自己的兴趣、爱好、学习进程自由选择选修课程的学习。

9. 为了让学生早期接触专业，实施早期接触临床教学的三阶段方案。第一阶段：第 2 学年暑假参加医院社会实践活动 2 周，提交社会实践手册和小结。第二阶段：第 3、4 学年进入基础医学学习阶段，为学生配备医学启蒙导师（每位导师带教 1-3 人），每 1-2 周安排一个单元时间让学生到医院与病人接触，并要求完成学生日志。第三阶段：第 3 学年暑假参加 2 周医疗单位的护理工作，提交实践总结和小结。

10. 课外学分除学生应完成的项目外，前 15 学期尚未修满者，第 16 学期可用选修课程学分替换。

11. 采用多渠道分流或优胜劣汰的学籍管理办法。

12. 实行多形式的导师制。

Those students of this specialty who have completed 488.5 credits prescribed by the teaching plan, including 456.5 required credits and 32.0 elective credits (containing 10 outside class credits), and, being assessed morally, intellectually, and physically, have reached the cultivating goals of the present specialty and the training requirements in the profession, will be permitted to graduate and

granted a graduation certificate. Those who meet the qualifications of the doctoral degree, after being assessed by the university academic degree committee, will be granted a degree certificate of medical doctor (MD) of the People's Republic of China.

The specialty observes the principles of “eight-years harmonized, totality optimized, basis intensified, clinic emphasized, ability developed, quality enhanced”, 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, as the final goal, high quality medical talents who possess good professional morals, broad foundation of humane social science and natural science, firm basic theories, basic knowledge and basic skills of medicine, and strong ability in scientific research, with the development of abilities as the mainline. The integration basing on the organs and system, the courses should carefully select and renew teaching content and improve teaching methods; strengthen the training of humane social science, natural science, and medical theoretical knowledge and basic practical skills, broaden the space of students' self-study, enhance the cultivation of self-study ability, practice ability, foreign language, application ability of information technology and ability in scientific research; pay attention to an early contact with clinic and the infiltration between basis and clinic, intensify the education of good medical ethics and working style and enforce the concept of prevention first; pay attention to interpersonal communication and promote social adaptation, and improve the students' total quality.

1. In the first 4 semesters, by making full use of the superiority of a comprehensive university, the main tasks of this stage are to cultivate the basic quality and healthy personality, train the thinking ability and the basic skills, and strengthen the teaching and training of humane social science, natural science, life science and the computer knowledge and its application. (The 10 elective credits are limited to the humane social science and natural science courses.)

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. Teaching content is passed on both in class and outside class. Forms of in-class teaching consist of small class (including PBL, Sandwich, 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.

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 --5th 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 6 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 8th semester in the 4th year. At the stage of clinical teaching, students must, under the guidance of their degree advisers and in connection with their clinical practice, complete the doctoral dissertation.

Research training at the basic teaching stage and the clinical teaching stage can be carried out in a continuous way, and 1 general review of literature must be completed for 1 main course at least in each semester.

5. Foreign language training: The training should be carried on unceasingly in the whole process of teaching with emphasis on the ability of using the language. As for the general English teaching period, every student must pass the National College English Test Band Six within the first two years. Ensuring the quality of the course, class teaching can be carried on by pure English or in a bilingual way. At the clinical practice stage, 10 case reports must be written in English. In each course examination, a certain percentage of questions should be put in English.

6. 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. Preventive medicine strategy practice is given in the holidays after the 10th semester, mainly the medical practice in the communities.

7. Clinical teaching (beginning from the 9th semester) is carried out in the form of bedside teaching to develop the students’ clinical ability. In the 14th–16th semesters, students go in for second-grade course practice and medical scientific research, finally completing the doctoral dissertation.

8. 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.

9. In order for students to have an early contact with their specialty, in the 3rd–4th year when the basic medicine teaching is given, every student is provided with an adviser who initiates the student into his special field of study. One unit of time (that is, a whole morning or a whole afternoon) in each week the students are arranged to contact with patients in the hospital with the writing of a daily record.

10. Outside-class credits: If students have finished the fixed items (6 or 7 credits) but haven’t completed all the rest up to the 15th semester, the missing credits can be made up by those of elective course in the 16th semester.

11. The “multiple channel split-flow” or “survival of the fittest” system is adopted for the administration of student records.

12. Multiple forms of advisership is put into practice.

华中科技大学本科专业人才培养计划

十一、八年制医学教育基准学期进程安排表

第一学年													
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			
思想道德修养与法律基础	32			8	40	2.5	中国近现代史纲要	24			8	32	2.0
综合英语（一）	56				56	3.5	综合英语（二）	56				56	3.5
计算机与程序设计基础（VB）	40		8		48	3.0	微积分（一）（下）	80				80	5.0
微积分（一）（上）	80				80	5.0	有机化学（含实验）	64		32		96	6.0
无机及分析化学（含实验）	64		32		96	6.0	中国语文	22			10	32	2.0
生命科学导论	16				16	1.0	大学物理（一）	64				64	4.0
大学体育（一）			32		32	1.0	物理实验（一）			32		32	1.0
军事理论	16				16	1.0	思政课社会实践	4			20	24	1.5
军训			2w		2w	1.0	大学体育(二)			32		32	1.0
入学教育			1w		1w	0.5							
合计	304		72/ 3w	8	384/ 3w	24.5	合计	314		96	38	448	26
总计	376/3w			8	384/ 3w	24.5	总计	410			38	448	26
选修课程					384/ 3w	24.5	选修课程			4.0		512	29.3
第二学年													
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
学术英语听说	32				32	2.0	学术英语读写	32				32	2.0
计算机网络技术及应用	32		16		48	3.0	数据库技术及应用	36		12		48	3.0
概率论与数理统计	40				40	2.5	线性代数	40				40	2.5
大学物理（二）	64				64	4.0	物理化学（含实验）	56		24		80	5.0
物理实验（二）			24		24	0.8	生物物理学	40				40	2.5
仪器分析	32				32	2.0	生物信息学概论	32				32	2.0
仪器分析实验			32		32	1.0	实验动物学	16		16		32	2.0
普通生物学（二）	72				72	4.5	自然辩证法	48				48	3.0
普通生物学实验（二）			24		24	0.8	大学体育（四）			32		32	1.0
大学体育（三）			32		32	1.0							
合计	304		128	8	440	24.1	合计	356		84		440	26.5
总计	432			8	440	24.1	总计	440				440	26.5
选修课程					6.0		选修课程			5.0		520	31.5

华中科技大学本科专业人才培养计划

第三学年													
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			
医学导论	24				24	1.5	形势与政策	18			14	32	2.0
医学文献检索	20		12		32	2.0	血液、内分泌及免疫系统基础	58	8	38		104	6.5
医学统计学	42		22		64	4.0	消化系统基础	48		16		64	4.0
医学拉丁语	16				16	1.0	呼吸系统基础	18		6		24	1.5
医学心理学	32				32	2.0	泌尿生殖系统基础	29		23	4	56	3.5
*医学概论(一)	127		94	3	224	14.0	*心血管系统基础	42	4	17	1	64	4.0
PBL 专题教学 1	18			30	48	3.0	机能实验 1			40		40	1.3
							临床基本技能	12		4		16	1.0
							社会医学	32				32	2.0
							PBL 专题教学 2	36			60	96	6.0
合计	279		128	33	440	27.5	合计	293	12	144	79	528	31.8
总计		407		33	440	27.5	总计		449		79	528	31.8
选修课程	5.0				520	32.5	选修课程	1.0				544	32.8
第四学年													
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			
骨骼、肌肉、皮肤、头颈、神经系统基础	60	15	51	2	128	8.0	*贯通课程	72	4	35	1	112	7.0
*感染病学基础	80	6	58		144	9.0	机能实验 2			64		64	2.0
局部解剖学			88		88	5.5	基础科研			6w		6w	3.0
预防医学	36	12			48	3.0	物理诊断学	46		42		88	5.5
PBL 专题教学 3	48			80	128	8.0	PBL 专题教学 4	30			50	80	5.0
							临床流行病学	36		12		48	3.0
							医学伦理学	24				24	1.5
合计	224	33	197	82	536	33.5	合计	208	4	153/6w	51	416/6w	27.0
总计		454		82	536	33.5	总计		365/6w		51	416/6w	27.0
无选修课程					536	33.5	无选修课程					416/6w	27.0
第九、十学期													
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			
手术学	4		28		32	2.0	血液系统疾病	24		16		40	2.5
医学概论(二)	84		12		96	6.0	*内分泌系统疾病	32		16		48	3.0
呼吸系统疾病	28	2	16	2	48	3.0	女性生殖系统疾病	40		24		64	4.0
*循环系统疾病	38	2	16		56	3.5	神经精神系统疾病	41	7	24		72	4.5
消化系统疾病	58	2	32	4	96	6.0	运动系统疾病	22	2	16		40	2.5
泌尿系统疾病	38	2	16		56	3.5	感染性疾病	38	2	24		64	4.0
PBL 专题教学 5	48			80	128	8.0	PBL 专题教学 6	72			120	192	12.0
合计	294	8	124	86	512	32.0	合计	269	11	120	120	520	32.5
总计		426		86	512	32.0	总计		400		120	520	32.5
无选修课程					512	32.0	无选修课程					520	32.5

华中科技大学本科专业人才培养计划

第十一、十二、十三学期													
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			
中医学 (含针灸学)	56		8		64	4.0	临床模拟技能训练		16			16	1.0
口腔科学	20			4	24	1.5	临床模拟思维训练		16			16	1.0
急诊医学	24				24	1.5	内科实习 (含讨论 20)			16w		16w	8.0
康复医学	20			4	24	1.5	外科实习 (含讨论 20)			16w		16w	8.0
法医学	20			4	24	1.5	妇产科实习 (含讨论 10)			8w		8w	4.0
循证医学	16				16	1.0	儿科实习 (含讨论 10)			8w		8w	4.0
眼科学	30		2w	2	32/2w	3.0	PBL 专题教学 8	60			100	160	10.0
耳鼻咽喉科学	30		2w	2	32/2w	3.0							
皮肤性病学	30		2w	2	32/2w	3.0							
感染病学实习			3w		3w	1.5	说明：内科实习 16 周中，安排 2 周社区医学实习。						
神经精神病学实习			3w		3w	1.5							
医学影像学实习			3w		3w	1.5							
PBL 专题教学 7	30			50	80	5.0							
合计	276		8/15w	68	352/15w	29.5	合计	60	32	48w	100	192/48w	36.0
总计	284			68	352/15w	29.5	总计	92/48w			100	192/48w	36.0
无选修课程					352/15w	29.5	选修课程				2.0	224/48w	64.0
第十四、十五、十六学期													
课程	课内			总学时	学分								
	大课	小课	见习										
临床二级选科实习				40w	20.0								
临床研究 (博士论文、论文答辩)				20w	10.0								
临床技能考试				1w	0.5								
毕业考试				1w	0.5								
毕业教育				1w	0.5								
合计				63w	31.5								
总计				63w	31.5								
无选修课程				63w	31.5								

说明：1. 基础医学阶段结束，进行基础理论综合考试和基础实践考试（OSPE 考试）；临床医学阶段结束后进行临床理论综合考试、临床实践考试、临床毕业考试和临床技能考试（OSCE）。

2. *标注的课程要求做课程综述。

3.1-6 学期，每学期安排形势与政策 3 学时。