



重庆邮电大学
CHONGQING UNIVERSITY OF POSTS AND TELECOMMUNICATIONS

重庆邮电大学 来华留学硕士、博士研究生培养方案 (2016 版)

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重庆邮电大学来华留学博士研究生培养方案总则

(2015 年 12 月 31 日校学位评定委员会审议通过)

来华留学博士研究生（简称“留学博士生”）培养方案是制定留学博士生培养计划、实施培养工作的基本依据。为规范我校留学博士生的培养与管理，保证留学博士生的培养质量，依据国务院学位委员会《关于普通高等学校授予来华留学生我国学位试行办法》、教育部《高等学校接受外国留学生管理规定》及相关文件精神，结合我校留学博士生具体情况，特制定本总则。

Doctoral Programs Guideline for International Students of CQUPT

Approved by the Degree Committee of CQUPT (Date: 31st, Dec., 2015)

Doctoral Programs Guideline for International Students of CQUPT is the ground regulation for training activities of international doctoral students in Chongqing University of Posts and Telecommunications (CQUPT). The Guideline is made in compliance with the Trial Procedures about Granting Degrees to International Students in Higher Educational Institutions in China designated by the State Council and the Management Stipulations of Higher Educational Institutions Accepting International Students designated by the Ministry of Education.

一、学习年限

留学博士生学习年限一般为 3 年，留学博士生可申请提前毕业或延期毕业，也可分阶段完成学业，最长修业年限（含休学）不得超过 7 年，最短不得少于 2.5 年。提前毕业条件按《重庆邮电大学来华留学研究生毕业和申请学位的学术成果基本要求》相关规定执行。

1.Length of Programs

The length of the doctoral programs is normally 3 years with a maximum of 7 years and a minimum of 2.5 years. Leave of absence is allowed upon approval. An early graduation should meet the Requirements for the Graduation and Degree Application of International Graduate Students of CQUPT.

二、培养方式

留学博士生的培养方式以课程学习与科研工作相结合，以科学研究为主，重点培养博士生独立从事科研工作的能力。

留学博士生实行导师负责制和博士生指导小组集体指导相结合的方式。导师可根据需要，聘请本团队或相关学科的 3-5 名教师组成指导小组，负责指导博士生制定个人培养计划、参与科学研究、开展学位论文工作。

2. Supervision Patterns

Doctoral candidates are required to take courses and conduct research work. Research works play a particular important role in the doctoral training period and the students are expected to have the capability of conducting research work independently.

Doctoral candidates are jointly instructed by supervisors and the Doctoral Supervisory Committee (DSC). DSC members are invited by the supervisors based on the instruction requirements. DSC should consist of 3-5 members from the supervisors' research group or relevant fields. The supervisors and DSC jointly supervise candidates' training and research activities including but not limited to: training program, teaching, research supervision, thesis supervision, etc.

三、课程及学分要求

留学博士生的课程包括公共必修课、基础理论课、专业课等课程。博士生必须完成的培养环节包括课程学习、教学实践、学术活动、论文开题、中期考核、论文答辩等。

留学博士生培养实行学分制，每一位攻读工学门类博士学位的留学生，必须按规定完成不低于 12 学分的课程学习。其中，公共必修课 2 学分，基础理论课不低于 2 学分。

同一专业课程体系若有两种授课语言（中/英）的，留学硕士生原则上以录取通知书上的授课语言为准。

汉语水平较低的留学研究生，建议补修相应的汉语适应性课程。

3. Courses and Credits

Doctoral courses consist of general compulsory courses, primary courses, program

fundamentals and disciplinary courses. Doctoral students must complete training process including course study, educational field work, academic activities, thesis proposal assessment, program mid-term assessment, thesis defense, etc.

Doctoral candidates in engineering category must complete no less than 12 credits, including: 2 credits of general compulsory courses, at least 2 credits of program fundamentals.

For those courses taught in both Chinese and English, doctoral candidates should take the one that indicated on the admission offer.

Those doctoral students are suggested to take additional Chinese language courses to improve their Chinese if needed.

四、学位论文工作

学位论文工作是培养研究生掌握基本的科学研究方法，使其具备从事科学研究工作或独立承担专门技术工作的能力所不可替代的重要环节。留学博士研究生在修满要求的课程学分后，应在导师指导下确定选题，开展学位论文工作。

学位论文工作的时间一般不得少于 2 年。

4. Thesis

The thesis work is an indispensable part in the doctoral program which enables students to master the basic methods of scientific research and have the capabilities of conducting academic research or undertaking professional technical works independently. The doctoral candidates should begin the thesis work after having completed all required credits under the instructions of the supervisors.

The thesis period is usually at least two years.

（一）博士学位论文的选题与开题

1. 博士学位论文的选题应属学科前沿或对社会发展具有重要理论意义或实用价值。学位论文应表明作者在本学科领域掌握了坚实宽广的基础理论和系统深入的专门知识，具有独立从事科学研究工作或承担专门技术工作的能力，在学科或专门技术上做出创造性的成果。

2. 博士生应在大量阅读文献和开展调研的基础上确定选题，学位论文的开题一般安排在第三学期或第四学期内完成，开题报告会应公开举行。

1) Topic Selection and Proposal of Doctoral Thesis:

The research topic of a doctoral thesis should be of pioneering theoretical significance or pragmatic value. Thesis should indicate that the authors have mastered broad and deep basic theories and systematic expertise in their research field, have the capabilities of conducting academic research or undertaking professional technical works independently, and make innovative achievements on theoretical works or professional techniques.

Students should select the thesis topic based on a comprehensive literature survey. Thesis proposal should be arranged in the third semester or fourth semesters, and the proposal assessment should be held in public.

（二）学位论文工作

1. 博士生学位论文应在导师指导下，由博士生独立完成。论文工作期间应每周向导师汇报研究进展，在导师指导下按计划完成学位论文工作。

2. 学位论文要求，按各专业培养学院要求执行。

3. 学位论文的撰写格式应按照《重庆邮电大学来华留学研究生学位论文撰写格式标准》执行。

4. 学位论文的答辩申请、评阅、答辩与学位授予应按照《重庆邮电大学来华留学研究生学位授予实施办法》的规定办理。

2) Thesis Work

Doctoral thesis should be completed by the doctoral students independently under the supervisors' instruction. The students must report their work progress to the supervisors once a week and complete the thesis work on schedule.

The doctoral thesis should meet the requirements of the corresponding schools offering the doctoral programs.

The format of the doctoral thesis should follow Formatting and Style Guide for Graduate Thesis of International Students of CQUPT.

Thesis defense application, evaluation, defense and degree grant should follow the

五、其他

1. 留学博士生培养方案每 3 年进行一次全面修订，由国际学院上报校学位委员会通过后执行。
2. 本总则从 2016 年 9 月开始执行，由国际学院负责解释。

5. Others

The doctoral programs for international students will be revised every three years. International College should submit the revised version to the Degree Committee of CQUPT. The revised programs will take effect upon the approval of the Degree Committee.

Doctoral Programs Guideline for International Students of CQUPT is in effect since September 2016. International College of CQUPT is responsible for the interpretation of the Guideline.

重庆邮电大学来华留学硕士研究生培养方案总则

(2015 年 12 月 31 日校学位评定委员会审议通过)

来华留学硕士研究生（简称“留学硕士生”）培养方案是制定留学硕士生培养计划、实施培养工作的基本依据。为规范我校留学硕士生的培养与管理、保证培养质量，依据国务院学位委员会《关于普通高等学校授予来华留学生我国学位试行办法》、教育部《高等学校接受外国留学生管理规定》及有关文件精神，结合我校留学硕士生实际情况，特制定本总则。

Master Programs Guideline for International Students of CQUPT

Approved by the Degree Committee of CQUPT (Date: 31st, Dec., 2015)

Master Programs Guideline for International Students of CQUPT is the ground regulation for training activities of international master graduate students in Chongqing University of Posts and Telecommunications (CQUPT). The Guideline is made in compliance with the “*Trial Procedures about Granting Degrees to International Students in Higher Educational Institutions in China*” designated by the State Council and the “*Management Stipulations of Higher Educational Institutions Accepting International Students*” designated by the Ministry of Education.

一、学习年限

我校留学硕士生在校学习年限（学制）一般为三年，学生可申请提前毕业或延期毕业，也可分阶段完成学业，但在校学习时间最短不得少于两年，最长修业年限（含休学）不得超过六年。提前毕业条件按《重庆邮电大学来华留学研究生毕业和申请学位的学术成果基本要求》相关规定执行。

1. Length of Program

The length of the master program is normally 3 years with a maximum of 6 years and a minimum of 2 years. Leave of absence is allowed upon approval. An early graduation should

meet the “*Requirements for the Graduation and Degree Application of International Graduate Students of CQUPT*”.

二、培养方式

1.留学硕士生的培养采取课程学习与论文工作并重的方式，要求留学硕士生既要掌握坚实的基础理论和专门知识，又要掌握科学研究的基本方法和技能，具有独立从事科学研究的能力。

2.留学硕士生课程学习实行学分制。学生在入学后一个月内，在导师指导下制定出课程学习计划。

3.在指导方式上实行导师负责制，提倡成立以硕士生导师为主的指导小组共同进行指导。

2. Supervision Patterns

1) Master program students are required to take courses and conduct research work as well. The students are expected to master broad and deep basic theories, professional knowledge, the basic methods and expertise of scientific research, have the capabilities of conducting academic research independently.

2) Master program students are trained according to credit systems. Students should make up the study plan under the guidance of supervisors in the first month.

3) Supervisors take up the major instructing role for students. Research teams are encouraged in the process.

三、课程及学分要求

（一）课程分为学位课和非学位课

学位课是反映本学科最重要的基础理论和专门知识的课程，是获得硕士学位必须通过的课程。学位课包含公共必修课、公共基础课和专业基础课。

非学位课程是根据各学科研究方向的特点及要求，为留学硕士生开设的主干专业课程以及为拓宽留学硕士生知识结构、反映现代科技水平和学术前沿的课程。非学位课包括专业课、自选课和实践环节。

3. Courses and Credits Requirements

1) Degree courses and non-degree courses

Degree courses cover the most important fundamental theories and professional knowledge of the program. Degree courses are indispensable for obtaining master degree. The degree courses consist of general compulsory courses, program fundamentals and disciplinary courses.

Non-degree courses are based on the characteristics and requirements of the specific master programs. Non-degree courses aim to extend the knowledge framework of international students, to reflect modern science and technical level, and academic frontiers.

（二）学分要求

每一位攻读工学门类硕士学位的留学生，必须按规定完成不低于 26 学分的课程学习，其中学位课学分不低于 16 学分。

每一位攻读管理学门类硕士学位的留学生，必须按规定完成不低于 34 学分的课程学习，其中学位课学分不低于 22 学分。

攻读其他学科门类硕士学位的留学生，其学分要求参照培养学院中国日校硕士生的培养要求执行。

学位课可以替代非学位课，但非学位课不可以替代学位课。

2) Credits Requirements

Engineering programs require at least 26 credits, including at least 16 credits from degree courses.

Business or management programs require at least 36 credits, including at least 22 credits from degree courses.

Other programs refer to the requirement for full-time Chinese master students.

Credits of degree courses are allowed to count for those of non-degree courses, but not vice versa.

（三）其它

1. 跨一级学科攻读学位的留学硕士生，应按导师要求补修至少两门本学科本科生的核心课程，并将成绩报送国际学院备案，但其学分不计入硕士生阶段的总学分。

2. 汉语水平较低的留学研究生，建议补修相应的汉语适应性课程。

3. 同一专业课程体系若有两种授课语言（中/英）的，留学硕士生原则上以录取通知书上的授课语言为准。

3) Others

International master students from different disciplines are required to take two undergraduate core courses. The exam scores should be submitted to the International College for recording. The credits of the undergraduate courses are not counted for the credit requirement of the master students.

For those courses taught in both Chinese and English, master students should take the one that indicated on the admission offer.

Those master students are suggested to take additional Chinese language courses to improve their Chinese if needed.

四、学位论文工作

学位论文工作是培养研究生掌握基本的科学研究方法，使其具备从事科学研究工作或独立承担专门技术工作的能力所不可替代的重要环节。留学硕士研究生在修满要求的课程学分后，应在导师指导下确定选题，进行学位论文工作。

学位论文工作的时间一般不得少于一年。

4. Thesis

The thesis work is an indispensable part in the doctoral program which enables students to master the basic methods of scientific research and have the capabilities of conducting academic research or undertaking professional technical works independently. The doctoral candidates should begin the thesis work after having completed all required credits under the instructions of the supervisors.

The thesis period is usually at least one year.

（一）硕士学位论文的选题与开题

1. 留学硕士生应在导师指导下，通过大量阅读文献资料、开展调查研究后进行选题，学位论文的选题应具有一定的理论意义与实用价值，应有必要的理论分析、技术路线、实现方法和创新见解等。

2. 学位论文的开题一般安排在第三学期或第四学期内完成，由各学院组织开题小组对硕士生的开题报告进行论证，通过后方可继续进行学位论文工作。硕士生的开题报

告会应公开举行。

1) Topic Selection and Proposal of Master Thesis:

International master students should select research topics based on a comprehensive literature survey and investigation under the instruction of the supervisors. The research topic of a master thesis should be of particular theoretical significance or practical value, necessary theoretical analysis, technical routes, implementation methods and innovative thoughts are required.

Thesis proposal assessment should be arranged in the third semester or fourth semester. The schools offering international master programs are responsible for organizing research proposal assessment. Only the students having passed research proposal defense are allowed to continue their research work. The research proposal assessment should be held in public.

（二）硕士学位论文工作

1. 硕士学位论文应在导师的指导下，由硕士生独立完成。论文工作期间应每周一次向导师汇报研究进展，按时完成相应的工作。

2. 学位论文要求，按各专业学院要求执行。

3. 学位论文的撰写应按照《重庆邮电大学来华留学研究生学位论文撰写格式标准》执行。

4. 学位论文的答辩申请、评阅、答辩与学位授予应按照《重庆邮电大学来华留学研究生学位授予实施办法》的规定办理。

2) Thesis Work

Master thesis should be completed by the master students independently under the supervisors' instruction. The students must report their work progress to the supervisors once a week and complete the thesis work on schedule.

The master thesis should meet the requirements of the corresponding schools offering the master programs.

The format of the master thesis should follow Formatting and Style Guide for Graduate Thesis of International Students of CQUPT.

Thesis defense application, evaluation, defense and degree grant should follow the

五、其他

1.留学硕士生培养方案每三年作一次全面的修订，由国际学院上报校学位委员会通过后执行。

2.本总则从 2016 年 9 月开始执行，由国际学院负责解释。

5. Others

Master programs for international students will be revised every three years. International College should submit the revised version to the Degree Committee of CQUPT. The revised program will take effect upon the approval of the Degree Committee.

Master programs Guideline for International Students of CQUPT is in effect since September 2016. International College of CQUPT is responsible for the interpretation of the Guideline.

重庆邮电大学来华留学研究生毕业和申请学位成果基本要求

Graduation and Degree Application Requirements for

International Graduate Students of CQUPT

凡我校来华留学研究生毕业和申请学位，除满足培养方案规定的课程学分及各培养环节要求外，还应满足以下学术成果基本要求，并提交相应材料进行资格审查。

International graduate students applying for graduation and degree granting from CQUPT should meet the fundamental academic achievement requirements specified in this document and submit relevant documents in addition to completing required course credits and all the requirements specified in Guideline.

一、申请学位的学术成果基本要求

(一) 硕士学位学术成果基本要求

申请硕士学位的留学硕士生在学位论文答辩前，必须完成以下反映学位论文工作的学术成果至少 1 项：

1. 公开发表论文 1 篇

申请人应提交发表论文的期刊封面、目录、论文全文复印件；或录用论文全文、录用通知、版面费付款证明原件和导师担保证明。

2. 申请或获得授权的发明专利 1 项。

申请人须提交授权证明或受理通知书。

3. 其他能证明个人学术水平或工程能力并与学位论文相关的研究成果

申请人提供证明材料，培养学院组织专家认定，通过后可作为认可的研究成果。

以上成果中，申请人应为第一作者；若为第二作者，须指导老师为第一作者。

I. Basic Academic Achievement for Degree Application

1. Basic Academic Achievement for Master Degree

One of the following achievements must be obtained before master candidates apply for

thesis defense.

1) One paper published in public: the candidate should submit the cover, the contents, and the paper, or the copy of the paper, the notification of paper acceptance, the original receipt of publication fee, and the certification from the supervisor.

2) One patent applied or authorized: the candidate should submit the certification of authorization or the notification of acceptance.

3) Other academic achievements which could be used to prove the candidates' academic capabilities or engineering skills in relation to the degree. Candidates should provide certification documents, and the school offering the program is responsible for organizing experts to evaluate. The academic achievements can be accepted under the approval certification of the experts.

For all the achievements, the candidates must be the first or the second (if the supervisor is the first) author.

(二) 博士学位学术成果基本要求

申请博士学位的留学博士生在学位论文预答辩前，必须完成反映学位论文工作的学术成果并发表学术论文，要求如下：

1. 至少在本学位点指定的重要期刊或重要会议上发表学术论文 2 篇。
2. 博士学位申请人的学术论文至少有 1 篇是第一作者，第二作者视为 0.5 篇（若为第二作者，需导师为第一作者）。
3. 以上 2 篇论文中可有 1 篇为期刊正式录用待发表论文。博士生须提交论文全文、录用通知、版面费付款证明原件和导师担保证明。

2. Basic Academic Achievements for Doctoral Degree

Doctoral candidates must complete following research achievements before applying thesis defense.

1) Two papers published in the core journals or conferences specified by the degree program.

2) Doctoral candidates must be the first author of at least one paper. The papers with the students being the second author will be counted as a half published paper under the condition that the supervisor is the first author.

3) One of the two papers can be a formally accepted journal paper waiting for publishing. The candidates must present the whole paper, notice of acceptance, the receipt of publication fee, and the certification from the supervisor.

二、申请提前毕业的条件

(一) 硕士生提前毕业需要满足以下条件

1. 在校学习期间无违反国家法律及校纪校规的记录;
2. 完成硕士培养方案规定的学分, 成绩优良;
3. 在本学科已取得较好的科研成果, 具备下列条件之一:

(1) 在学校认定的国内外重要期刊或顶级国际会议上发表学术论文 1 篇; 或发表被 SCI、EI 或 SSCI、CSSCI 收录的期刊论文 2 篇; 或发表核心期刊论文 1 篇且获得授权发明专利 1 项; 其中如有录用待正式发表, 视同为 0.5 篇。(以重庆邮电大学的名义发表, 排名第一或指导教师排第一、本人排名第二)。

(2) 参加学校的科研项目的工作, 成绩突出, 获省部级及以上科研成果奖或人文社科优秀成果奖(排名前 3, 且学生中排第 1);

(3) 参加全国学术性的竞赛获得国家级二等及以上奖励(排名前 3 且学生中排名第 1), 同时发表核心期刊论文 1 篇。

II. Requirements for an Early Graduation

1. Qualifications for an Early Graduation of Master Degree

- 1) No record of violating any law or school rules.
- 2) Complete required course credits with B class and above.
- 3) Meet one of the following conditions:

(a) Publish one academic paper on key journals or important international conferences admitted by CQUP,

or two papers on journals indexed by SCI, EI, SSCI, or CSSCI databases,

or one paper on core journals and one authorized patent. Papers which have been accepted but not published yet are counted as a half published paper. (The authors' affiliation of all papers should be CQUPT and the students should be the first author or be the second author under the condition that the supervisor is the first author).

(b) Participate in university research projects and receive provincial or higher level scientific or humanities research awards (The candidate must be listed in the first position of the student members and among top three in the whole team.)

(c) Attend state level academic competition and receive a Second Prize or higher award (The candidate must be listed in the first position of the student members and among top three in the whole team), and publish one core journal paper.

(二) 博士生提前毕业需要满足以下条件

1. 在校学习期间无违反国家法律及校纪校规的记录;
2. 完成博士培养方案规定的学分, 满足本学科点所规定的毕业成果和成绩要求。
3. 攻读工学门类的博士生在本学科已取得较好的科研成果, 具备突出的创新能力。其中至少有 1 篇 SCI 二区及以上论文, 或者有 2 篇 SCI 三区及以上论文。

2. Qualifications for an Early Graduation:

- 1) No record of violating any law or school rules.
- 2) Complete required course credits, meet the academic achievement and grade requirements of the discipline.
- 3) Obtain good academic achievements and have excellent innovation ability. At least publish one SCI journal paper of zone 2 or higher level, or two SCI journal papers of zone 3 or higher level.

三、其他

1. 本文所提成果要求为留学研究生毕业及申请学位基本要求, 培养学院可根据具体情况制定细则。
2. 本办法自 2016 年 9 月起执行, 由国际学院负责解释。

III. Others

1. The requirements specified in this document are the basic requirements for international graduate students to apply for graduation or degree granting. The schools offering the programs are suggested to design detail requirements.

2. This document will take effect from September 2016. International College is responsible for interpretation.

信息与通信工程学科来华留学博士研究生培养方案

Ph.D. Programs of Information and Communication Engineering

for International Students

一、 适用专业

信息与通信工程（081000）

I. Major

Information and Communication Engineering

二、 学科主要研究方向

1. 宽带通信网理论与技术
2. 移动通信理论与技术
3. 通信信号处理理论与方法
4. 光通信与光网络理论及技术
5. 多媒体信息处理与传输

II. Research Areas

1. Broadband communication networks theory and technology
2. Wireless communications theory and technology
3. Communication signal processing theory and methods
4. Optical communication networks theory and technology
5. Multimedia information processing and transmission

三、 培养目标

1. 具有严谨求实的科学态度和作风，具有良好的学术修养、良好的心理素质与职业道德；
2. 掌握信息与通信工程领域坚实宽广的基础理论和系统深入的专业知识，深入了解和掌握国内外信息与通信工程领域内的发展趋势及前沿课题，具有独立研究、分析本专业技术问题的能力；

3.掌握本科学研究的基本方法与技能,具有创造性地进行理论与新技术研究的能力,对本学科某方面深入研究并取得独创性成果;

4.能熟练地运用英文或中文一种语言阅读本专业的文献资料和撰写科研论文,并具备国际学术交流能力。

III. Objectives

1. Ph.D. candidates are expected to have rigorous and realistic scientific attitude, excellent academic accomplishment, psychological quality and professional morality.

2. Ph.D. candidates should having a firm and comprehensive grasp of basic theories and profound and systematic specialized knowledge in the discipline of information and communication engineering, understand the frontier technologies and developing trends of communication industry, and have the capability of conducting research works independently and analyzing technical problems of related research areas.

3. Ph.D. candidates should master the basic methods and are expected to have the capability of conducting theoretical and new technology research innovatively. They are required to study one research area of specific discipline deeply and achieve creative results.

4. Ph.D. candidates should be able to use English or Chinese fluently, read professional literature and write research papers, and conduct academic exchange activities.

四、课程设置

IV. Curriculum and Credits

类别 Category	课程编号 Course Code	课程名称 Course Name	学时/学分 Credit Hours/ Credits	学期 Semester	备注 Notes
公共必修课 General Compulsory Courses	23500E/C101	中国概况 An Introduction to China	32/2	秋 Autumn	至少选 1 门 At least take one of them
	23500E/C102	中华文化概论 An Introduction to Chinese Culture	32/2	秋 Autumn	
基础理论课 Science Fundamentals	06300E/C201	泛函分析 Functional Analysis	32/2	秋 Autumn	至少选 1 门 At least take one of them
	06300E/C202	高等数值分析与计算 Advanced Numerical Analysis and Calculation	32/2	秋 Autumn	
	06300E/C203	应用数学理论和方法 Applied Mathematics Theory and Method	32/2	秋 Autumn	
专业选修课 Disciplinary Elective Courses	01301E/C301	通信网理论与分析 Communication Networking Theory and Analysis	32/2	春/秋 Spring/ Autumn	至少选 1 门 At least take one of them
	01301E/C302	排队论 Queuing Theory	32/2	春/秋 Spring/ Autumn	
	01301E/C303	信号处理基础 Fundamentals of Signal Processing	32/2	春/秋 Spring/ Autumn	
	01301E/C304	现代信号处理方法 Modern Signal Processing Method	32/2	春/秋 Spring/ Autumn	
	01301E/C401	无线通信理论与技术 Wireless Communication Theory and Technologies	32/2	春/秋 Spring/ Autumn	
	01301E/C402	网络体系与协议 Network Architecture and Protocols	32/2	春/秋 Spring/ Autumn	
	01301E/C403	音视频信号处理 Audio and Video Signal Processing	32/2	春/秋 Spring/ Autumn	

	01301E/C404	智能信息处理 Intelligent Information Processing	32/2	春/秋 Spring/ Autumn	
	01301E/C405	超高速光通信 Ultra High Speed Optical Communication	32/2	春/秋 Spring/ Autumn	
	01301E/C406	信息技术专题 Special Sessions on Information Technology	16/1	春/秋 Spring/ Autumn	
	01301E/C407	交叉学科前沿 Inter-disciplinary Frontiers	16/1	春/秋 Spring/ Autumn	
自选课 Optional Courses		其他跨学科课程 Other Cross-disciplinary Courses			
实践环节 Practice and Activities		教学实践 Teaching Practice	1		
		学术活动 Academic Activities	1		

注：未修过“中国概况”者，则必须选“中国概况”。

Note: “*An Introduction to China*” is compulsory for those who haven’t taken.

五、其他

跨一级学科报考或同等学历考入的博士研究生，须由导师指定补修 2 门本学科硕士专业基础课程，成绩合格。补修课所取得学分不记入总学分。

V. Others.

The Ph.D. students enrolled from other disciplines are required to take 2 postgraduate disciplinary core courses according to the suggestion of their supervisors and pass the exam. The credits of the postgraduate courses are not counted for graduate study.

信息与通信工程学科来华留学硕士研究生培养方案

Master Programs of Information and Communication Engineering for International Students

一、 适用专业

信息与通信工程（081000）

I. Major

Information and Communication Engineering

二、 学科主要研究方向

1. 宽带通信网理论与技术
2. 移动通信理论与技术
3. 通信信号处理理论与方法
4. 光通信与光网络理论及技术
5. 多媒体信息处理与传输

II. Research Areas

1. Broadband communication networks theory and technology
2. Wireless communications theory and technology
3. Communication signal processing theory and methods
4. Optical communication networks theory and technology
5. Multimedia information processing and transmission

三、 培养目标

1. 具有严谨求实的科学态度和作风，具有良好的学术修养、良好的心理素质与职业道德；
2. 掌握信息与通信工程专业较坚实的基础理论和较系统的专门知识，具备跟踪信息与通信工程领域发展动态、探索信息与通信工程领域新技术、新体制的能力；
3. 掌握科学研究的基本方法与技能，具备一定的从事信息与通信工程设计与运行、分析与集成、研究与开发、管理与决策等的能力。

4.培养较强的书面和口头表达能力，掌握一门外语。能运用英文或中文一门语言，阅读本专业的文献资料和撰写科研论文，并具备一定的国际学术交流能力。

III. Objectives

1. Master candidates are expected to have rigorous and realistic scientific attitude, psychological quality and professional morality.

2. Master candidates should having a more firm grasp of basic theories and systematic specialized knowledge in the discipline and have the capability of tracking the development trends, exploring new technologies and schemes of information and communication engineering area.

3. Master candidates should master the basic methods and techniques of research works and be capable of conducting designing and operation works, analyzing and integrating, research and development, management and decision making of information and communication engineering area.

4. Master candidates should have strong ability of writing and oral expression, and master one foreign language. The students should be able to read professional literature and write research papers in English or Chinese, and conduct academic exchange activities.

四、课程设置

Curriculum and Credits

课程类别 Course Category		课程编号 Course Code	课程名称 Course Name	学时/学分 Credit Hours/ Credits	学期 Semester	备注 Notes
学位课 Degree Courses	公共必修课 General Compulsory Courses	23500E/C101	中国概况 An Introduction to China	32/2	秋 Autumn	至少选 1 门 At least take one of them
		23500E/C101	中华文化概论 An Introduction to Chinese Culture	32/2	秋 Autumn	
	基础理论课 Science Fundamentals	06400E/C201	随机过程及其应用 Stochastic Processes and Applications	48/3	秋 Autumn	至少 选 1 门 At least take one of them
		06400E/C202	高等代数与矩阵分析 Higher Algebra and Matrix Analysis	48/3	秋 Autumn	
	专业基础课 Disciplinary Primary Courses	01401E/C301	信号处理基础 Fundamentals of Signal Processing	48/3	秋 Autumn	
		01401E/C302	高级通信原理 Advanced Communication Theory	48/3	秋 Autumn	
		01401E/C303	通信网理论基础 Fundamentals of Communication Networking Theory	48/3	秋 Autumn	
		01401E/C304	通信网络体系与协议 Communication Network Architecture and Protocol	48/3	春 Spring	
		01401E/C305	无线通信理论与技术 Wireless Communication Theory and Technology	48/3	春 Spring	

课程类别 Course Category		课程编号 Course Code	课程名称 Course Name	学时/分 Credit Hours/ Credits	学期 Semester	备注 Notes
非学位课 Non-Degree Courses	专业选修课 Disciplinary Elective Courses	01401E/C401	无线网络技术及应用 Wireless Network Technology and Application	32/2	春 Spring	
		01401E/C402	智能信息处理理论与技术 Intelligent Information Processing Theory and Technology	32/2	春 Spring	
		01401E/C403	音视频信号处理理论与技术 Audio and Video Signal Processing Theory and Technology	32/2	春 Spring	
		01401E/C404	高级可编程逻辑器件应用设计 Application Design of Advanced Programmable Logic Device	32/2	秋 Autumn	
		01401E/C405	通信系统仿真方法与应用 Simulation Methods and Application for Communication System	32/2	秋 Autumn	
		01401E/C406	通信网络仿真方法与应用 Simulation Methods and Application for Communication Networks	32/2	秋 Autumn	
		01401E/C407	信息技术专题 Special Sessions on Information Technology	16/1	春/秋 Spring/ Autumn	
		01401E/C408	交叉学科前沿 Inter-disciplinary Frontiers	16/1	春/秋 Spring/ Autumn	
	自选课 Optional Courses		科学研究和创新方法 Methodology of Scientific Research and Innovation			
			其他跨学科课程 Other Cross-disciplinary Courses			
	实践环节 Practice and Activities		社会实践或项目实践 Social Practice or Project Practice	1		
			学术活动 Academic Activities	1		

注：未修过“中国概况”者，则必须选“中国概况”。

Note: *An Introduction to China* is compulsory to those who haven't taken the course.

五、其他

对跨一级学科报考或同等学历录取的硕士研究生，由导师指定补修本专业的本科核心课程 2 门，并且考核合格，补修课所取得学分不记入总学分。

V. Others

The master students enrolled from other disciplines are required to take 2 undergraduate disciplinary core courses according to the suggestion of their supervisors and pass the exam. The credits of the undergraduate courses are not counted for graduate study.

计算机科学与技术学科来华留学博士研究生培养方案

(英文授课)

Ph.D. Programs of Computer Science and Technology

for International Students

(English as Educational Language)

一、 适用专业

计算机科学与技术 (081200)

I. Major

Computer Science and Technology (081200)

二、 学科主要研究方向

1. 人工智能与知识发现
2. 计算机网络与通信
3. 软件理论与系统软件
4. 模式识别与图像处理
5. 信息安全与网络管控
6. 大数据与云计算

II. Research Areas

1. Artificial intelligence and knowledge discovery
2. Computer network and communication
3. Software theory and system software
4. Pattern recognition and image processing
5. Information security, network management and control
6. Big data and cloud computing

三、 培养目标

1、成为合格的高层次研究型人才。对计算机科学与技术学科及其相关领域的发展现状、趋势及学术前沿有全面深入的了解,系统地掌握本学科某一专业方向的重要理论、

研究方法与技术。能独立从事科学研究，承担重要的研究项目与设计工作。具有良好的创新能力和进行国际学术交流的能力。

2、具有一定的汉语听说读写能力。

III. Objectives

1. The Ph.D. candidates are expected to be qualified high-level research-oriented talent. They should have deep understanding of the development states, trends, and academic frontiers of computer science and technology, master the key theories, research methods and techniques of a specialized direction of the discipline, is able to conduct scientific research independently and undertake research projects and design works. The candidates should have strong innovation skills and the capability of conducting international academic exchange activities.

2. The Ph.D. candidates should have the ability of reading, speaking, writing, and listening in Chinese.

四、课程设置

IV. Curriculum and Credits

类别 Category	课程编号 Course Code	课程名称 Courses	学时/学分 Credit Hours/ Credits	学期 Semester	备注 Notes
公共必修课 General Compulsory Courses	23500E101	中国概况（英文） An Introduction to China (English)	32/2	秋 Autumn	至少 选 1 门 At least take one
	23500E102	中华文化概论（英文） An Introduction to Chinese Culture (English)	32/2	秋 Autumn	
基础理论课 Program Fundamentals	06300E202	高等数值分析与计算 Advanced Numerical Analysis and Calculation	32/2	秋 Autumn	至少 选 1 门 At least take one
	06300E203	应用数学理论和方法 Applied Mathematics Theory and Method	32/2	秋 Autumn	
专业 课 Disciplinary Courses	02101E401	高级人工智能 Advanced Artificial Intelligence	32/2	秋 Autumn	至少 选 2 门 At least take two
	02101E402	大数据分析挖掘 Big Data Analysis and Mining	32/2	秋 Autumn	
	02101E403	下一代互连网络 Next Generation Network	32/2	秋 Autumn	
	02101E404	图像分析与模式识别 Image Analysis and Pattern Recognition	32/2	秋 Autumn	
	02101E405	软件理论与新技术 Software Theory and New Technology	32/2	秋 Autumn	
	02101E406	信息安全理论 Information Security Theory	32/2	秋 Autumn	
		其他跨学科课程 Other Cross-disciplinary Course			
其他 培养 环节 Other		教学实践 Teaching Practice			不计学分 No Credits
		学术活动 Academic Activities	2		
		论文开题 Thesis Proposal	1		

类别 Category	课程编号 Course Code	课程名称 Courses	学时/学分 Credit Hours/ Credits	学期 Semester	备注 Notes
Training Process		中期考核 Midterm Examination	1		
		科研考核 Assessment of Scientific Research			
		论文答辩 Dissertation Defense			

五、其他

跨一级学科报考或同等学历考入的博士研究生，须由导师指定补修 2 门本学科硕士专业基础课程，成绩合格。补修课所取得学分不记入总学分。

V. Others

The Ph.D. students enrolled from other disciplines are required to take 2 postgraduate disciplinary core courses according to the suggestion of their supervisors and pass the exam. The credits of the postgraduate courses are not counted for graduate study.

计算机科学与技术学科来华留学硕士研究生培养方案

(中文授课)

Master Programs of Computer Science and Technology

for International Students

(Chinese as Educational Language)

一、 适用专业

计算机科学与技术 (081200)

I. Major

Computer Science and Technology (081200)

二、 学科主要研究方向

- | | |
|--------------|------------|
| 1、智能信息处理 | 2、计算机网络与通信 |
| 3、信息安全 | 4、多媒体技术 |
| 5、数据库与空间信息系统 | 6、嵌入式软件与系统 |
| 7、模式识别与人工智能 | 8、高性能计算 |
| 9、云计算与大数据 | |

II. Research Areas

1. Intelligent information processing
2. Computer network and communication
3. Information security
4. Multimedia technology
5. Database and space information system
6. Embedded software and system
7. Pattern recognition and artificial intelligence
8. High performance computing
9. Cloud computing and big data

三、培养目标

1、具有坚实的计算机科学与技术基础理论，系统掌握计算机系统、软件和应用技术的专门知识，熟悉计算机软硬件环境和工具，能够从事计算机系统、计算机网络和通信环境下的理论研究及应用开发，能够应用计算机技术解决其他相关学科的各种计算问题。

2、具有一定的汉语听说读写能力和进行国际学术交流的能力。

III. Objectives

1. The master candidates are expected to have a solid understanding of the basic theory of computer science and technology, master the professional knowledge of computer systems, software, and application technologies systematically; be familiar with the development environment and tools of computer software and hardware; be capable of conducting theoretical research and application development of computer systems, computer network and communication environment, and solving computing problems of other relevant disciplines.

2. The master candidates should be able to read, speak, write, and listen in Chinese and should have the capability of conducting international academic exchange activities.

四、课程设置

IV. Curriculum and Credits

课程类别 Course Category		课程编号 Course Code	课程名称 Courses	学时/学分 Credit Hours/ Credits	学期 Semester	备注 Notes
学位课 Degree Courses	公共必修课 General Compulsory Courses	23500C101	中国概况（中文） An Introduction to China (Chinese)	32/2	秋 Autumn	至少选 1 门 At least take one of them
		23500C102	中华文化概论（中文） An Introduction to Chinese Culture (Chinese)	32/2	秋 Autumn	
	基础理论课 Program Fundamentals	06400C203	图论及其应用 Graph Theory and Applications	48/3	秋 Autumn	至少选 2 门 At least take two courses
		06400C204	组合数学 Combinatorial Mathematics	48/3	秋 Autumn	
		06400C205	数理统计 Mathematical Statistics	48/3	秋 Autumn	
		06400C206	数值分析 Numerical Analysis	48/3	秋 Autumn	
	专业基础课 Disciplinary Primary Courses	02201C301	高级软件工程 Advanced Software Engineering	48/3	春 Spring	
		02201C302	人工智能原理 Principles of Artificial Intelligence	48/3	秋 Autumn	
		02201C303	高级计算机网络体系结构 Advanced Architecture of Computer Network	48/3	春 Spring	
		02201C304	高级数据库系统技术 Advanced Database System Technology	48/3	春 Spring	
		02201C305	面向对象方法 Object Oriented Methodology	48/3	秋 Autumn	
		02201C306	高级计算机系统结构 Advanced Architecture of Computer	48/3	秋 Autumn	
		02201C307	计算理论基础 Fundamentals of Computation	48/3	秋 Autumn	
		02201C308	密码学与网络安全 Cryptography and Network Security	48/3	秋 Autumn	

非学位课 Non-Degree Courses	专业 课 Disciplinary Courses	02201C401	Rough 集理论与数据挖掘 Rough Set Theory and Data Mining	32/2	春 Spring	
		02201C402	机器学习 Machine Learning	32/2	秋 Autumn	
		02201C403	因特网协议原理与实现 Internet Protocols Principles and Practice	32/2	秋 Autumn	
		02201C404	网络计算 Network Computing	32/2	春 Spring	
		02201C405	宽带网络技术 Broadband Network Technology	32/2	春 Spring	
		02201C406	计算机取证学 Computer Forensics	32/2	春 Spring	
		02201C407	数字媒体与网络智能 Multimedia and Web Intelligence	32/2	秋 Autumn	
		02201C408	数字图像处理研究专题 Research Topics on Digital Image Processing	32/2	春 Spring	
		02201C409	计算机图形学及三维建模 Computer Graphics and 3D Modeling	32/2	秋 Autumn	
		02201C410	高级空间定位技术 Advanced Spatial Positioning Technologies	32/2	秋 Autumn	
		02201C411	嵌入式系统设计 Design of Embedded Systems	32/2	春 Spring	
		02201C412	操作系统内核与设计原理 Operating System Internals and Design Principles	32/2	春 Spring	
		02201C413	计算机视觉 Computer Vision	32/2	春 Spring	
		02201C414	分布式和并行计算 Distributed and Parallel Computing	32/2	春 Spring	
		02201C415	计算机科学前沿技术 Frontier Theory of Computer Science	32/2	秋 Autumn	
		02201C416	科学研究和创新方法 Methodology of Scientific Research and Innovation	32/2	春 Spring	
		02201C417	智能模式识别与应用 Intelligent Pattern Recognition and Applications	32/2	秋 Autumn	

		02201C418	不确定性人工智能 Uncertainty in Artificial Intelligence	32/2	秋 Autumn	
	自 选 课 Optional Courses	99201C601	科技文献检索 Reference Exploration	32/2	秋 Autumn	
			其他跨学科课程 Other Cross-Disciplinary Courses			
	实 践 环 节 Practicum		文献阅读综述 Reference Reading and Summary	1		
			教学实践 Teaching Practice	2		二选一 Either of them
			社会实践或项目实践 Social or Project Practice	2		
			学术活动 Academic Activities	1		

注：未修过“中国概况”者，则必须选“中国概况”。

Note: *An Introduction to China* is compulsory to those who haven't taken the course.

五、其他

对跨一级学科报考或同等学力录取的硕士研究生，由导师指定补修本专业的本科核心课程 2 门，并且考核合格，补修课所取得学分不记入总学分。

V. Others

The master candidate students enrolled from other disciplines are required to take 2 undergraduate disciplinary core courses according to the suggestion of their supervisors and should pass the exam. The credits of the undergraduate courses are not counted for graduate study.

管理科学与工程学科留学硕士研究生培养方案

(中文授课)

Master Programs of Management Science Engineering

for International Students

(Chinese as Educational Language)

一、适用专业

管理科学与工程 (120100)

I. Major

Management Science and Engineering (120100)

二、学科主要研究方向

1. 管理科学理论与方法
2. 通信经营管理
3. 电子商务与现代物流
4. 信息经济管理
5. IT 项目管理
6. 管理信息系统

II. Research Areas

1. Management Science Theory and Method
2. Communication Operation Management
3. E-commerce and Modern Logistics
4. Information Economy Management
5. IT Project Management
6. Management Information System

三、培养目标

1. 遵守中国法律法规和学校规章制度，尊重中国文化习俗。

2. 身心健康，具有良好的道德品质、合作精神和国际化视野。具有严谨求实的科学态度，勇于创新，恪守学术道德和规范。

3. 有扎实的管理理论基础，掌握系统深入的管理知识，并能正确的运用管理方法、定性与定量相结合的系统分析方法及相应的工程技术方法解决管理方面的有关理论与实际问题。能够独立开展业务工作、教学工作和从事相关的科学研究；并具有继续学习、提高的基础和能力。

4. 对中国文化有所了解，具有一定的汉语听说读写能力和进行国际学术交流的能力。

III. Objectives

1. Master candidates should abide by Chinese laws, regulations, and the rules of CQUPT, and respect Chinese customs.

2. Master candidates should be of healthy physical and mental status, have good moral characters, cooperation spirit and international vision, and are expected to have rigorous and realistic scientific attitude, innovation capability and comply with academic morality and regulations.

3. Master candidates are expected to have solid basic theory of management science, deep understanding of management knowledge and be able to solve theoretical or practical management problems through applying management methods, systematical analysis methods and related engineering and technical methods based on qualitative and quantitative analysis. They should be able to conduct professional work, teaching and research work independently and have the potential and capability of further study and improvement.

4. Master candidates should have knowledge of Chinese culture, be able to read, speak, write, and listen in Chinese and have the capability of conducting international academic exchange activities.

四、课程设置

IV. Curriculum and Credits

课程类别 Course Category		课程编号 Course Code	课程名称 Courses	学时/ 学分 Credit Hours/ Credits	学期 Semester	备注 Notes
学位课 Degree Courses	公共必修课 General Compulsory Courses	23500C101	中国概况 An Introduction to China	32/2	1	至少选 1 门 At least take one of them
		23500C102	中华文化概论 An Introduction to Chinese Culture	32/2	1	
	基础理论课 Program Fundamentals	07401C203	管理决策方法 Analysis of Management decision-making	48/3	2	4 门必修 Four Compulsories
		07401C201	统计学 Statistics	48/3	1	
		07401C202	生产与运作管理 Production and operational management	48/3	1	
		07401C204	微观经济分析 Micro-Economic Theory	48/3	1	
	专业基础课 Disciplinary Primary Courses	07401C301	高级管理学 Advanced Management Theory	32/2	1	至少选 8 学分 At least take 8 credits
		07401C302	高级运筹学 Advanced course of operational research	32/2	2	
		07401C303	管理研究方法 Management Research Methods	48/3	2	
		07401C304	计量经济分析 Econometrics Analysis	32/2	3	

课程类别 Course Category		课程编号 Course Code	课程名称 Courses	学时/ 学分 Credits	学期 Semester	备注 Notes
		07401C305	博弈论与微观信息经济学 Game Theory And Micro Information Economics	32/2	3	
非学位课 Non-Degree Courses	专业选修课 Disciplinary Elective Courses	07401C401	通信竞争与管制 Competition and regulation of telecommunication	32/2	2	
		07401C405	通信运营管理 Telecommunication Operation Management	32/2	3	
		07401C403	信息系统分析与设计 Information System Analysis and Design	32/2	2	
		07401C404	管理信息系统 Management Information System	32/2	1	
		07401C402	网络技术与应用 Network Technology and Application	32/2	3	
		07401C406	电子商务理论与应用 E-commerce Theory and Practice	32/2	2	
		07401C407	物流与供应链管理 Logistics and Supplying Chain Management	32/2	2	
		07401C408	项目管理 Project Management	32/2	3	
		07401C401 1	营销管理 Marketing Management	48/3	3	
		07401C410	风险管理 Risk Analysis	32/2	3	
		07401C412	财务管理 Financial Management	48/3	3	
		07401C409	多元统计分析 Multivariate Statistical Analysis	32/2	3	

课程类别 Course Category		课程编号 Course Code	课程名称 Courses	学时/ 学分 Credit Hours/ Credits	学期 Semester	备注 Notes
		07401C413	专业汉语 Advanced Chinese Language (economic and management area)	32/2	2	
		07401C414	管理前沿系列讲座 series lectures of management frontier	48/3	2	
	自 选 课 Optional Courses		其他跨学科专业课程 Other Cross-disciplinary Courses	48/3		
		99201C601	科技文献检索 Sci-tech Literature Retrieval	32/2		
	实 践 环 节 Practice and Activities		文献阅读综述 Literature Reading and Review	1		必修 4 学 分 Four compulsor y credits
			学术活动 Seminar	1		
			社会实践 Social Practice	2		

注：未修过“中国概况”者，则必须选“中国概况”。

Note: *An Introduction to China* is compulsory to those who haven't ever taken.

管理科学与工程学科留学硕士研究生培养方案

(英文授课)

Master Programs of Management Science Engineering for

International Students

(English as Educational Language)

一、 适用专业

管理科学与工程（120100）

I. Major

Management Science and Engineering (120100)

二、学科主要研究方向

1. 管理科学理论与方法
2. 通信经营管理
3. 电子商务与现代物流
4. 信息经济管理
5. IT 项目管理
6. 管理信息系统

II. Research Areas

1. Management Science Theory and Method
2. Communication Operation Management
3. E-commerce and Modern Logistics
4. Information Economy Management
5. IT Project Management
6. Management Information System

三、培养目标

1、有扎实的管理理论基础，掌握系统深入的管理知识，并能正确的运用管理方法、定性与定量相结合的系统分析方法及相应的工程技术方法解决管理方面的有关理论与实际问题。能够独立开展业务工作、教学工作和从事相关的科学研究；并具有继续学习、提高的基础和能力。

2、具有一定的汉语听说读写能力和进行国际学术交流的能力。

III. Objectives

1. Master candidates are expected to have solid basic theory of management science, deep understanding of management knowledge and be able to solve theoretical or practical management problems through applying management methods, systematical analysis methods and related engineering and technical methods based on qualitative and quantitative analysis. They should be able to conduct professional work, teaching and research work independently and have the potential and capability of further study and improvement.

2. Master candidates should be able to read, speak, write, and listen in Chinese and should have the capability of conducting international academic exchange activities.

四、课程设置

IV. Curriculum and Credits

课程类别 Course Category		课程编号 Course Code	课程名称 Courses	学时/学分 Credit Hours/ Credits	学期 Semester	备注 Notes
学位课 Degree Courses	公共必修课 General Compulsory Courses	23500E101	中国概况 An Introduction to China	32/2	1	至少选 1 门 At least take one
		23500E102	中华文化概论 An Introduction to Chinese Culture	32/2	1	
	基础理论课 Program Fundamentals	07401E201	统计学 Statistics	48/3	2	4 门必修 Four compul series
		07401E202	生产与运作管理 Production and operational management	48/3	1	
		07401E203	管理经济学 Managerial Economics	48/3	1	
		07401E204	决策分析 Decision Analysis	48/3	1	

课程类别 Course Category		课程编号 Course Code	课程名称 Courses	学时/学分 Credit Hours/ Credits	学期 Semester	备注 Notes
	专业基础课 Disciplinary Primary Courses	07401E301	高级管理学 Advanced Management Theory	32/2	1	至少选 8 学分 At least take 8 credits
		07401E302	高级运筹学 Advanced Course of Operational Research	32/2	2	
		07401E303	管理研究方法 Management Research Methods	48/3	2	
		07401E304	谈判分析 Negotiation Analysis	48/3	2	
		07401E305	管理信息系统 Management Information System	32/2	2	
		07401E306	信息系统分析与设计 Information System Analysis and Design	32/2	2	
非学位课 Non-Degree Courses	专业选修课 Disciplinary Elective Courses	07401E401	数据仓库与知识发现 Data Warehouse and Knowledge Discovery	32/2	3	
		07401E402	网络技术与应用 Network Technology and Application	32/2	3	
		07401E403	电子商务理论与应用 E-commerce Theory and Practice	32/2	2	
		07401E404	电子商务信用管理 Credit Management of E-commerce	32/2	3	
		07401E405	物流运作管理 Logistics Operation Management	32/2	2	
		07401E406	物流信息系统 Logistic Information System	32/2	3	
		07401E407	项目计划与控制 Project Plan and Management	32/2	3	
		07401E408	项目融资管理 Project Financing Management	32/2	3	

课程类别 Course Category		课程编号 Course Code	课程名称 Courses	学时/学分 Credit Hours/ Credits	学期 Semester	备注 Notes
		07401E409	应用系统分析 Applied System Analysis	32/2	2	
		07401E410	风险管理 Risk Analysis	32/2	3	
		07401E411	营销管理 Marketing Management	48/3	3	
		07401E412	财务管理 Financial Management	48/3	3	
		07401E413	专业汉语 Advanced Chinese Language (economic and management area)	32/2	2	
		07401E414	管理前沿系列讲座 Series Lectures of Management Frontier	48/3	2	
	自 选 课 Optional Courses		其他跨学科专业课程 Other Cross- disciplinary Course	48/3		
		99201E601	科技文献检索 Sci-tech Literature Retrieval	32/2		
	实 践 环 节 Practice and Activities		文献阅读综述 Reading and Summary	1		必修 4 学分 Four compulsory credits
			学术活动 Seminar	1		
			社会实践 Social Practice	2		

注：未修过“中国概况”者，则必须选“中国概况”。

Note: *An Introduction to China* is compulsory to those who haven't taken the course.