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资源与环境工程学院

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# 矿业工程博士研究生培养方案

(学科代码: 0819 授 工学博士 学位)

## 一、培养目标

## 二、研究方向

- 1.
- 2.
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- 7.
- 8.

## 三、学习年限

3-5

## 四、学分要求

	26		
	14	6	
		4	2
		2	
		4	
		2	
	12	1	
		1	1
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## 五、培养要求

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## 矿业工程博士研究生课程计划表

17BSA0601	160	4	1
17BSA2101	32	2	1
18BD01101	32	2	1
15BD01102			

# Educational Program for Doctoral Students of Mineral Engineering

(Discipline Code: 0819 Conferred Degrees: Doctor of Engineering )

## I. Educational Objectives

The program's purpose is to educate high-caliber personnel with such abilities as: having a solid foundation of basic theories, and specialized and relevant knowledge in Mineral Engineering discipline; conducting independent scientific research and undertaking specialized technical work in the field of Safety Science and Engineering with modern scientific theories, experimental equipment and information tools; and having made creative achievements in theoretical study and practical engineering work in this disciplinary domain.

## II. Research Fields

1. Mining Theories and Technologies
2. Rock and Soil Mechanics and Slope Engineering
3. Mining Economics and Systems Engineering
4. Explosion Theory and Application
5. New Mineral Processing Technologies and Equipment
6. Mineral Chemical Extraction
7. Comprehensive Utilization of Urban Mineral Resources
8. Iron Mine Agglomeration and Direct Reduction

## III. Program Duration

The duration of study for doctoral students normally ranges from 3 to 5 years.

## IV. Credit Requirements

Credit Requirements and Allocation Instructions for Doctoral Students of Mineral Engineering

Total Credits	26credits	
course credits	14credits	Public Compulsory Courses total 6 credits, among which 4 credits are for Chinese Language, and 2 credits for A Survey of China Public Elective Courses 2 credits Subject Basic Courses 4 credits Elective Specialized Courses 2 credits
research session	12credits	Thesis Proposal, 1 credit Academic communication, 1 credit

		Mid-term Progress Report and Thesis Assessment, 1 credit Dissertation, 9 credits
Please refer to the attached Curriculum for specific course arrangements		

## V. Training Requirements

### 1. Basic Requirements

Completely mastering scientific theories and technologies of the discipline and theoretical foundation of relevant disciplines. Having an in-depth understanding of the development history, status quo and leading edge of the discipline, and possessing solid basic theories and systematic and extensive expertise. Being able to conduct original studies both in theories and practice with modern scientific theories, experimental means, computer application technology and information technology. Innovatively discovering and resolving practical problems in Mineral Engineering, Complying with academic ethics, and having a strong sense of dedication and responsibility. Mastering at least one foreign language to read foreign professional literatures and conducting international academic exchanges. Meeting requirements of The Higher Education Law of the People's Republic of China and Regulations of the People's Republic of China on Academic Degrees.

### 2. Thesis Proposal Requirements

Thesis proposal shall be presented in a written and oral defense form, counting 1 credit, Grades are either pass or fail.

Contents of a thesis proposal shall include: the background and basis of the selected topic, a review of domestic and abroad literature with an analysis and a summary (no less than 70 articles); The research program should illustrate research objectives, content, key problems and innovation, research method, technical approach, and experiment means; and a research plan and a time schedule.

A thesis proposal report shall be reviewed and commented by at least five associate professors and above titles (at least three of whom are professors). There should be at least five associate professors and above titles (at least three professors) attending the oral defense. If students failed the oral defense, the thesis proposals should be re-prepared.

A thesis proposal normally ranges from 8000 to 15,000 words. When a proposal report is appraised and approved, a Doctoral Candidate's Thesis Proposal Form shall be completed and submitted to one's school and reserved in the degree achieves.

### 3. The Mid-term Progress Requirements for a Thesis

The mid-term progress of a thesis shall be presented in a written and oral defense form, counting 1 credit.

The mid-term progress report should be presented publicly around the validity of experiment methods, data, results, preliminary conclusion from the research approach, and whether the thesis can be completed on schedule. There should be at least five associate professors and above titles (at least three professors) or doctors attending the oral defense and providing advice for existing problems.

Once the mid-term examination is passed, a Doctoral Student's Mid-term Report and Comprehensive Assessment Form shall be completed and submitted to the Graduate School, and a copy of that and a written form of the original thesis proposal report shall be preserved by the school.

#### 4. Requirements for Academic Activities

A graduate student shall participate in at least nine academic activities, counting 1 credit. A written record shall be prepared for each academic activity and a written material shall be reserved for an academic presentation. The written record signed by the supervisor shall be submitted to the school to register credits before applying for a degree.

#### 5. Academic Articles Publishing Requirements

Follow the Provisions of Doctoral and Master Students of Wuhan University of Science and Technology Applying for a Degree and Gaining Academic Achievements.

#### 6. Dissertation Pre-Defense Requirements

A graduate student shall complete all training sessions, meet academic articles publishing requirement, and shall follow the Working Rules on Awarding Doctoral and Master Degrees of Wuhan University of Science and Technology, and the Graduate Student Dissertation Detection Rules of Wuhan Wuhan University of Science and Technology (Trial).

#### 7. Dissertation Defense Requirements

Follow the Working Rules on Awarding Doctoral and Master Degrees of Wuhan University of Science and Technology, and Graduate Student Dissertation Detection Rules of Wuhan Wuhan University of Science and Technology (Trial), etc.

## Curriculum for Doctoral Students of Mineral Engineering

Category	Course Nature	Course Code	Course Name	Hour	Credit	Semester	School	Notes
Degree Courses	Public Compulsory Courses	17BSA0601	Chinese Language	160	4	1	School of Literature, Law and Economics	compulsory
		17BSA2101	A Survey of China	32	2	1	International School	
	Subject Basic Courses	18BD01101	Advanced Mining Engineering Geology	32	2	1	School of Resource and Environmental Engineering	Optional for Mining Engineering Major
		15BD01102	New Development in Rock Mechanics	32	2	2		
		15BD22101	Modern Analysis and Measurement Technology	32	2	1	School of Chemistry and Chemical Engineering	
		15BD01121	Hydro-metallurgy	40	2.5	1	School of Resource and Environmental Engineering	
		15BD01122	Structural Chemistry	40	2.5	2		
		15BD01123	Sediment Kinematic	40	2.5	2		
15BD22101	Modern Analysis and Measurement Technology	32	2	1	School of Chemistry and Chemical Engineering			
Selective Courses	Public Elective Courses	19BSY2101	Cross-Culture Adaptation — Study in China	32	2	2	International School	compulsory
		19BSY0701	Numerical Analysis	16	1	1	College of Science	
	Elective Specialized Courses	18BC01101	Stability Analysis and Control of Mine Slope	32	2	1	School of Resource and Environmental Engineering	Optional for Mining Engineering Major
		15BC01121	Solution Chemistry of Modern Mineral Flotation	40	2.5	1		Optional for Mineral Processing Engineering Major
research session		15BYJ0101	Research Proposal		1		School of Resource and Environmental Engineering	Compulsory
		15BYJ0102	Academic Communication, 9 times		1			
		15BYJ0103	The Mid-term Progress Report and evaluation		1		School of Resource and Environmental Engineering	
		15BYJ0104	Dissertation		9			



# 矿业工程硕士研究生培养方案

(学科代码: 0819 授 工学硕士 学位)

## 一、培养目标

## 二、研究方向

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

## 三、学习年限

2-3

## 四、学分要求

	32	
	25	6
		2
		10
		7
	7	1
		1
		1
		4



### 矿业工程学术硕士研究生课程计划表

		17BSA0601		160	4	1		
		17BSA2101		32	2	1		
		18SD01101		40	2.5	1		10
		18SD01102		40	2.5	1		
		18SD01103		40	2.5	2		
		18SD01104		40	2.5	2		
		15SY22109		32	2	2		
		15SD01123		48	3	1		10
		15SD01124		40	2.5	2		
		15SD01125		48	3	2		
		15SD01126		48	3	2		
		15SD01127		32	2	2		
		15SY22109		32	2	2		
		19BSY2101		32	2	2		
		19BSY0701		16	1	1		
		18SY01101		40	2.5	1		7
		18SY01102		32	2	2		
		18SY01103		48	3	2		
		15SY01110		32	2	2		7
		15SY01111		32	2	1		
		15SY01112		32	2	2		
		15SY01113		32	2	2		
		15SY01114		32	2	2		
		15SY01115		32	2	2		
		15SYJ0101			1			
		15SYJ0102	6		1			
		15SYJ0103			1			
		15SYJ0104			4			

# Educational Program for Master Students of Mineral Engineering

(Discipline Code: 0819 Conferred Degrees: Master of Engineering )

## I. Educational Objectives

The program's purpose is to educate high-caliber personnel with such abilities as: having a solid foundation of basic theories and systematically specialized knowledge in the Mineral Engineering discipline; having the ability to work with computer and advanced experimental techniques; conducting independent scientific research or undertaking specialized technical work; understanding the status quo, development trends and frontier dynamics of the discipline; and having made achievements in theoretical study and practical engineering work in this disciplinary domain.

## II. Research Fields in Mineral Engineering

1. Mining System Engineering
2. Mining Theories and Technologies
3. Resource Economics
4. Explosion Engineering
5. Mineral Processing Theories and New Technologies
6. Mineral Extraction Technologies
7. Comprehensive Utilization of Secondary Resources
8. Agglomeration and Direct Reduction Theories and Technologies

## III. Program Duration

The duration of study for full-time master students (academic) normally ranges from 2 to 3 years.

## IV. Credit Requirements

Credit Requirements and Allocation Instructions for Academic Master Students  
of Mineral Engineering

Total Credits	32	
Course Credits	25credits	Public Compulsory Courses 6 credits, Public Elective Courses 2 credits Subject Basic Courses 10 credits Elective Specialized Courses 7 credits
Research	7credits	Thesis Proposal, 1 credit

Session		Academic communication, 1 credit Mid-term Progress Report, 1 credit Degree Thesis, 4 credits
Please refer to the attached Curriculum for specific course arrangements		

## V. Research and Dissertation

### 1. Basic Requirements

Possessing a solid foundation of basic theories and systematically specialized knowledge of the subject; being able to work with computers and advanced experimental techniques; having the ability to independently conduct scientific research or undertake specialized technical work; possessing a scientific world outlook and methodology with a rigorous research style and teamwork spirit; Mastering at least one foreign language to read foreign professional literatures; and meeting requirements of The Higher Education Law of the People's Republic of China and Regulations of the People's Republic of China on Academic Degrees.

### 2. Thesis Proposal Requirements

Thesis proposal shall be presented in a written and oral defense form, counting 1 credit.

Contents of a thesis proposal shall include: (1) the background and basis of the selected topic, and a review of domestic and abroad literature with an analysis and a summary (no less than 40 articles including at least 10 foreign language articles); (2) a research program with an illustration of research objectives, content, key research questions, innovation points, research method, technical approach, experiment means, etc. (3) the research foundation illustrating existing research condition, and possible difficulties, problems, and their possible solutions and measures during the research process; (4) a research plan and a time schedule.

A thesis proposal report shall be reviewed and commented by at least five associate professors and above titles or doctors. There should be at least five (associate) professors or doctors attending the oral defense. If students failed the oral defense, the thesis proposals should be re-prepared.

A thesis proposal normally ranges from 5000 to 10,000 words. When a proposal report is appraised and approved, a Master Candidate's Thesis Proposal Form shall be completed and submitted to one's school and reserved in the degree achieves.

### 3. Requirements for Academic Activities

A graduate student shall participate in at least six academic activities, counting 1 credit. A written record shall be prepared for each academic activity and a written material shall be kept for an academic presentation. The written record signed by the supervisor shall be submitted to the school to register credits before applying for a degree.

### 4. Dissertation Defense Requirements

A graduate student shall complete all training sessions, and shall follow the Provisions of Doctoral and Master Students of Wuhan University of Science and Technology Applying for a Degree and Gaining Academic Achievements, Working Rules on Awarding Doctoral and Master Degrees of Wuhan University of Science and Technology, and the Graduate Student Dissertation Detection Rules of Wuhan University of Science and Technology (Trial).

## Curriculum for Master Students of Mineral Engineering

Category	Course Nature	Course Code	Course Name	Hour	Credit	Semester	School	Notes
Degree Courses	Public Compulsory Courses	17BSA0601	Chinese Language	160	4	1	School of Literature, Law and Economics	Compulsory
		17BSA2101	A Survey of China	32	2	1	International School	
	Subject Basic Courses	18SD01101	Advanced Mining Engineering	40	2.5	1	School of Resource and Environmental Engineering	Optional for Mining Engineering Major, 10 credits
		18SD01102	Mining rock mechanics	40	2.5	1		
		18SD01103	Mining Geology	40	2.5	2		
		18SD01104	Mining safety	40	2.5	2		
		15SD01105	GIS Principles and Applications	32	2	2		
		15BD22101	Modern Analysis and Measurement Technology	32	2	1	School of Chemistry and Chemical Engineering	
		15SD01123	Colloid and Surface Chemistry	48	3	1	School of Resource and Environmental Engineering	
		15SD01124	Interface Separation Principle	40	2.5	2		
		15SD01125	Higher Agglomeration	48	3	2		
		15SD01126	Higher Mineral Processing	48	3	2		
		15SD01127	Flotation Electrochemistry	32	2	2		
		15BD22101	Modern Analysis and Measurement Technology	32	2	1	School of Chemistry and Chemical Engineering	
Selective Courses	Public Elective Courses	19BSY2101	Cross-Culture Adaptation — Study in China	32	2	2	International School	Compulsory
		19BSY0701	Numerical Analysis	16	1	1	College of Science	

	18SY01101	Safety Risk Evaluation	40	2.5	1		
	18SY01102	Mining Physical Model	32	2	2	School of Resource and Environmental Engineering	Optional for Mining Engineering Major, 7 credits
	18SY01103	Numerical Simulation	48	3	2		
	15SY01105	Reinforcement Techniques in Geotechnical Engineering	32	2	2		
	15SY01106	New Techniques in Mining Engineering	32	2	2		
Elective Specialized Courses	15SY01110	Comprehensive Utilization of Secondary Resources	32	2	2		
	15SY01111	Mineral Processing Experiment Technology	32	2	1	School of Resource and Environmental Engineering	Optional for Mineral Processing Engineering Major, 7 credits
	15SY01112	Direct Reduction and Smelting Reduction	32	2	2		
	15SY01113	Advanced Mineral Extraction Technology	32	2	2		
	15SY01114	Mineral Analysis Testing Technology	32	2	2		
	15SY01115	Introduction to Mineral Materials	32	2	2		

# 安全科学与工程博士研究生培养方案

(学科代码: 0837 授 工学博士 学位)

## 一、培养目标

## 二、研究方向

- 1.
- 2.
- 3.
- 4.
- 5.

## 三、学习年限

3-5

## 四、学分要求



## 五、培养要求

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### 安全科学与工程博士研究生课程计划表

		17BSA0601		160	4	1		
		17BSA2101		32	2	1		
		15BD22101		32	2	1		4
		15BD01204		32	2	1		
		19BC01201		32	2	2		
		15BD01202	*	32	2	1		
		15BD01203		32	2	1		
		19BSY2101		32	2	2		
		19BSY0701		16	1	1		
		17BY01205		32	2	1		2
		15BY01202		32	2	1		
		15BYJ0101			1			
		15BYJ0102	9		1			
		15BYJ0103			1			
		15BYJ0104			9			

# Educational Program for Doctoral Students of Safety Science and Engineering

(Discipline Code: 0837 Conferred Degrees: Doctor of Engineering )

## I. Educational Objectives

The program's purpose is to educate high-caliber personnel with such abilities as: having a solid foundation of basic theories, and specialized and relevant knowledge in Safety Science and Engineering; conducting independent scientific research and undertaking specialized technical work in the field of Safety Science and Engineering with modern scientific theories, experimental equipment and information tools; and having made creative achievements in theoretical study and practical engineering work in this disciplinary domain.

## II. Research Fields

1. Theory and technology of safety production in metal mines
2. Industrial ventilation and dust removal and occupational hazard control
3. Fault diagnosis and risk control of metallurgical equipment
4. Urban underground space fire dynamics and prevention technology
5. Safety management and risk assessment of metallurgical enterprises

## III. Program Duration

The duration of study for doctoral students normally ranges from 3 to 5 years.

## IV. Credit Requirements

Credit Requirements and Allocation Instructions for Doctoral Students of  
Safety Science and Engineering

Total Credits	26Credits	
Course Credits	14Credits	Public Compulsory Courses total 6 credits, among which 4 credits are for Chinese Language, and 2 credits for A Survey of China Public Elective Courses 2 credits Subject Basic Courses 4 credits Elective Specialized Courses 2 credits
Research Session	Credits	Thesis Proposal, 1 credit Academic Communication, 1 credit Mid-term Progress Report and Thesis Assessment, 1

		credit Dissertation, 9 credits
Please refer to the attached Curriculum for specific course arrangements		

## V. Training Requirements

### 1. Basic Requirements

Completely mastering scientific theories and technologies of the discipline and theoretical foundation of relevant disciplines. Having an in-depth understanding of the development history, status quo and leading edge of the discipline, and possessing solid basic theories and systematic and extensive expertise. Being able to conduct original studies both in theories and practice with modern scientific theories, experimental means, computer application technology and information technology. Complying with academic ethics, and having a strong sense of dedication and responsibility. Mastering at least one foreign language to read foreign professional literatures and conducting international academic exchanges. Meeting requirements of The Higher Education Law of the People's Republic of China and Regulations of the People's Republic of China on Academic Degrees.

### 2. Thesis Proposal Requirements

Thesis proposal shall be presented in a written and oral defense form, counting 1 credit. Grades are either pass or fail.

Contents of a thesis proposal shall include: the background and basis of the selected topic, a review of domestic and abroad literature with an analysis and a summary (no less than 70 articles); The research program should illustrate research objectives, content, key problems and innovation, research method, technical approach, and experiment means; and a research plan and a time schedule.

A thesis proposal report shall be reviewed and commented by at least five associate professors and above titles (at least three of whom are professors). There should be at least five associate professors and above titles (at least three professors) attending the oral defense. If students failed the oral defense, the thesis proposals should be re-prepared.

A thesis proposal normally ranges from 8000 to 15,000 words. When a proposal report is appraised and approved, a Doctoral Candidate's Thesis Proposal Form shall be completed and submitted to one's school and reserved in the degree achieves.

### 3. The Mid-term Progress Requirements for a Thesis

The mid-term progress of a thesis shall be presented in a written and oral defense form, counting 1 credit.

The mid-term progress report should be presented publicly around the validity of experiment methods, data, results, preliminary conclusion from the research approach, and whether the thesis can be completed on schedule. There should be at least five associate professors and above titles (at least three professors) or doctors attending the oral defense and providing advice for existing problems.

Once the mid-term examination is passed, a Doctoral Student's Mid-term Report and Comprehensive Assessment Form shall be completed and submitted to the Graduate School, and a copy of that and a written form of the original thesis proposal report shall be preserved by the school.

#### 4. Requirements for Academic Activities

A graduate student shall participate in at least nine academic activities, counting 1 credit. A written record shall be prepared for each academic activity and a written material shall be reserved for an academic presentation. The written record signed by the supervisor shall be submitted to the school to register credits before applying for a degree.

#### 5. Academic Articles Publishing Requirements

Follow the Provisions of Doctoral and Master Students of Wuhan University of Science and Technology Applying for a Degree and Gaining Academic Achievements.

#### 6. Dissertation Pre-Defense Requirements

A graduate student shall complete all training sessions, meet academic articles publishing requirement, and shall follow the Working Rules on Awarding Doctoral and Master Degrees of Wuhan University of Science and Technology, and the Graduate Student Dissertation Detection Rules of Wuhan University of Science and Technology (Trial).

#### 7. Dissertation Defense Requirements

Follow the Working Rules on Awarding Doctoral and Master Degrees of Wuhan University of Science and Technology, and Graduate Student Dissertation Detection Rules of Wuhan University of Science and Technology (Trial), etc.

## Curriculum for Doctoral Students of Safety Science and Engineering

Category	Course Nature	Course Code	Course Name	Hour	Credit	Semester	School	Notes
Degree Courses	Public Compulsory Courses	17BSA0601	Chinese Language	160	4	1	School of Literature, Law and Economics	Compulsory
		17BSA2101	A Survey of China	32	2	1	International School	
		15BD22101	Modern Analysis and Measurement Technology	32	2	1	School of Chemistry and Chemical Engineering	
	Subject Basic Courses	15BD01204						4 records

# 安全科学与工程硕士研究生培养方案

(学科代码: 0837 授 工学硕士 学位)

## 一、培养目标

## 二、研究方向

- 1.
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- 5.

## 三、学习年限

2-3

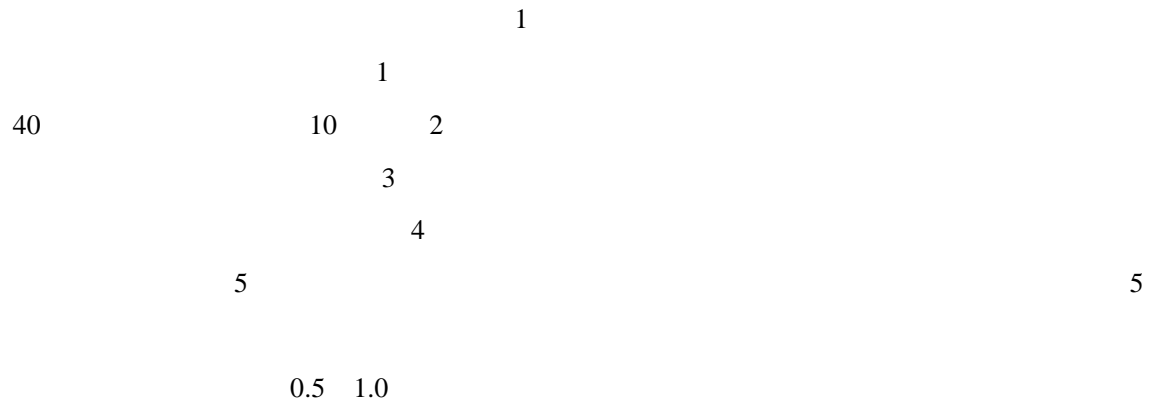
## 四、学分要求

	32	
	25	6 2 10 7
	7	1 1 1 4

## 五、研究环节与学位论文

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### 安全科学与工程硕士研究生课程计划表

		17BSA0601		160	4	1		
		17BSA2101		32	2	1		
		19SC01201		16	1	1		
		18SD01201		40	2.5	1		
		18SY01101		40	2.5	1		
		18SD01202		40	2.5	1		
		18SD01104		40	2.5	2		
		15SY22109		32	2	2		
		19BSY2101		32	2	2		
		19BSY0701		16	1	1		
		18SY01103		48	3	2		
		18SD01103		32	2	2		
		18SY01202		32	2	1		
		15SY01206		32	2	1		
		15SY01107		32	2	2		
		15SY01204		32	2	2		
		15SYJ0101			1			
		15SYJ0102	6		1			
		15SYJ0103			1			
		15SYJ0104			4			

# Educational Program for Master Students of Safety Science and Engineering

(Discipline Code: 0837 Conferred Degrees: Master of Engineering)

## I. Educational Objectives

The program's purpose is to educate high-caliber personnel with such abilities as: having a solid foundation of basic theories and systematically specialized knowledge in the Safety Science and Engineering discipline; having the ability to work with computer and advanced experimental techniques; conducting independent scientific research or undertaking specialized technical work; understanding the status quo, development trends and frontier dynamics of the discipline; and having made achievements in theoretical study and practical engineering work in this disciplinary domain.

## II. Research Fields

1. Theory and technology of safety production in metal mines
2. Industrial ventilation and dust removal and occupational hazard control
3. Fault diagnosis and risk control of metallurgical equipment
4. Urban underground space fire dynamics and prevention technology
5. Safety management and risk assessment of metallurgical enterprises

## III. Program Duration

The duration of study for full-time master students (academic) normally ranges from 2 to 3 years.

## IV. Credit Requirements

Credit Requirements and Allocation Instructions for Academic  
Master Students of Safety Science and Engineering

Total Credits	32credits	
Course Credits	25credits	Public Compulsory Courses 6 credits, Public Elective Courses 2 credits Subject Basic Courses 10 credits Elective Specialized Courses 7 credits
Research Session	7credits	Thesis Proposal, 1 credit Academic communication, 1 credit Mid-term Progress Report, 1 credit Degree Thesis, 4 credits
Please refer to the attached Curriculum for specific course arrangements		

## **V. Research and dissertation**

### **1. Basic Requirements**

Possessing a solid foundation of basic theories and systematically specialized knowledge of the subject; being able to work with computers and advanced experimental techniques; having the ability to independently conduct scientific research or undertake specialized technical work; possessing a scientific world outlook and methodology with a rigorous research style and teamwork spirit; Mastering at least one foreign language to read foreign professional literatures; and meeting requirements of The Higher Education Law of the People's Republic of China and Regulations of the People's Republic of China on Academic Degrees.

### **2. Thesis Proposal Requirements**

Thesis proposal shall be presented in a written and oral defense form, counting 1 credit.

Contents of a thesis proposal shall include: (1) the background and basis of the selected topic, and a review of domestic and abroad literature with an analysis and a summary (no less than 40 articles including at least 10 foreign language articles); (2) a research program with an illustration of research objectives, content, key problems, innovation points, research method, technical approach, experiment means, etc. (3) the research foundation illustrating existing research condition, and possible difficulties, problems, and their possible solutions and measures during the research process; (4) a research plan and a time schedule.

A thesis proposal report shall be reviewed and commented by at least five associate professors and above titles or doctors. There should be at least five (associate) professors or doctors attending the oral defense. If students failed the oral defense, the thesis proposals should be re-prepared.

A thesis proposal normally ranges from 5000 to 10,000 words. When a proposal report is appraised and approved, a Master Candidate's Thesis Proposal Form shall be completed and submitted to one's school and reserved in the degree achieves.

### **3. Requirements for Academic Activities**

A graduate student shall participate in at least six academic activities, counting 1 credit. A written record shall be prepared for each academic activity and a written material shall be kept for an academic presentation. The written record signed by the supervisor shall be submitted to the school to register credits before applying for a degree.

### **4. Dissertation Defense Requirements**

A graduate student shall complete all training sessions, and shall follow the Provisions of Doctoral and Master Students of Wuhan University of Science and Technology Applying for a Degree and Gaining Academic Achievements, Working Rules on Awarding Doctoral and Master Degrees of Wuhan University of Science and Technology, and the Graduate Student Dissertation Detection Rules of Wuhan University of Science and Technology (Trial).

## Curriculum for Master Students of Safety Science and Engineering

Category	Course Nature	Course Code	Course Name	Hour	Credit	Semester	School	Notes
Degree Courses	Public Compulsory Courses	17BSA0601	Chinese Language	160	4	1	School of Literature, Law and Economics	Public Compulsory
		17BSA2101	A Survey of China	32	2	1	International School	
	Subject Basic Courses	19SC01201	Developments in Safety Science and Technolog	16	1	1	School of Resource and Environmental Engineering	10 records
		18SD01201	Accident/Incident Emergency Mangement	40	2.5	1		
		18SY01101	Safety Risk Evaluation	40	2.5	1		
		18SD01202	Occupational Safety and Health	40	2.5	1		
		18SD01104	Mine Safety	40	2.5	2		
	15SY22109	Modern Instrumental Analysis	32	2	2	School of Chemistry and Chemical Engineering		
	Public Elective Courses	19BSY2101	Cross-Culture Adaptation — Study in China	32	2	2	International School	Compulsory
		19BSY0701	Numerical Analysis	16	1	1	College of Science	
	Elective Specialized Courses	18SY01103	Numerical Simulation	48	3	2	School of Resource and Environmental Engineering	7 records
		18SD01103	Mining Geology	32	2	2		
		18SY01202	Safety System Engineering	32	2	1		
		15SY01206	Theory and Technology of Smoke Control	32	2	1		
15SY01107		Mine Safety Technology	32	2	2			
15SY01204		Aerosol Dynamics	32	2	2			
Research Session	15SYJ0101	Thesis Proposal		1		School of Resource and Environmental Engineering	Compulsory	
	15SYJ0102	Academic Activities 6 times		1				
	15SYJ0103	The mid-term progress report and evaluation		1				
	15SYJ0104	Dissertation		4				