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信息安全专业

《C 序》

	1BH06902		4
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3	1 C 2 3	<p style="text-align: center;">C</p>	2
4	1 2 3 if 4 switch 5 while 6 do_while 7 for 8 break continue	<p style="text-align: center;">C</p>	10
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1		4	if	C	--switch
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technology and the ability of independently analyzing and solving problem and self-training. And further it is expected to stimulate interest and train initiative spirit of students.

《 信 息 基 础 》

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			Foundations of Information Systems

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5	5 5.1 5.2 5.3 5.4 5.5		4
6	6 6.1 6.2 6.3		4

	6.4 6.5		
7	7 7.1 7.2 7.3 Internet 7.4	Internet Internet	4
8	8 8.1 8.2 8.3	;	2
9	9 9.1 9.2 9.3 9.4 9.5		2
10	10 10.1 10.2 10.3 10.4 10.5		2
11	11 11.1 11.2 11.3 11.4 11.5		2
12	12 12.3 12.4 12.5		4
13			2

1		4	WindowsXP DIY		
2		2	Access .		
3	MIS	2	MIS MIS IT MIS		
4		4	MRP MRPII ERP CRM SCM OLTP/OLAP DSS EB Word		

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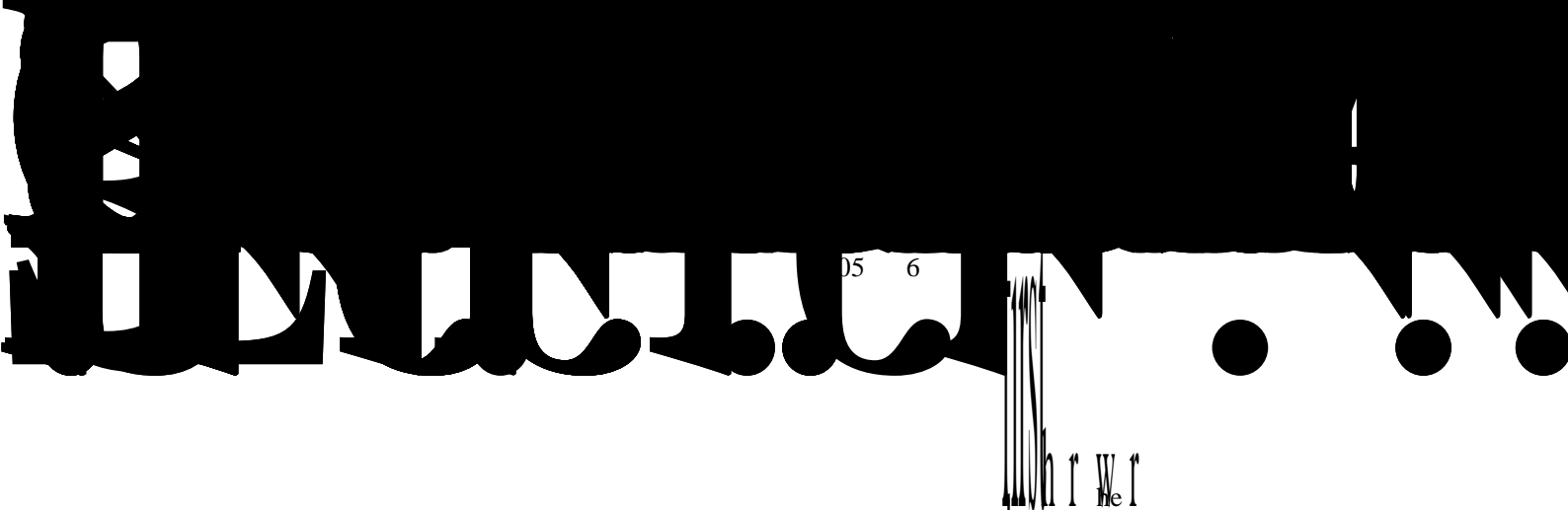
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This course is a professional basic course of the information security major. It consists two

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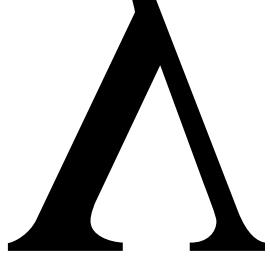
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This course is a required course of information security. Providing with the professional education, this course gives students a more comprehensive and profound understanding on training objectives, knowledge structure, curriculum, learning content and requirements, as well as future

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Java

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JAVA

1	1 java 1.1 java 1.2 java 1.3 jdk 1.4 java 1.5 java 1.6	Java Java Java Internet Java Java JDK Java Java	2
2	2 2.1 2.2 2.3	Java Java Java	2

	2.4 2.5	Java	
3	3 3.1 3.2 3.3 if 3.4switch 3.5 3.6 break continue 3.7 for	Java Java	2
4	4 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 this 4.10 import 4.11 4.12 4.13		6
5	5 5.1 5.2 5.3 5.4 5.5 super 5.6 final 5.7 5.8 5.9 abstract abstract 5.10 5.11 —		8
6	6 6.1 6.2 6.3 6.4 uml 6.5		4

	6.6 6.7 6.8 abstract 6.9		
7	7 7.1 7.2 7.3 Lambda 7.3 7.4 7.5	Lambda	2
8	8 8.1 string 8.2 stringtokenizer 8.3 scanner 8.4 date calendar 8.5 8.6 math biginteger random 8.7 8.8 stringbuffer 8.9 pattern matcher 8.10 class		2
9	9 9.1 file 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10		2
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1	Java	2	3 PC EditPlus Eclipse jdk jcreator		
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1. Cay S. Horstmann	Java		10
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2. Bruce Eckel	Java	4	2007.6
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Java awt swing

Java

swing

The Object-oriented programming is a professional basic course of the major of Information security. It introduces the basic concepts of object-oriented programming, methods and applications. The content of the course includes basic concepts of structured programming, design ideas of object-oriented programming and application method and its implementation in Java language, using awt swing to implement UI design, and exception handling mechanism, input and output flows, and various technologies and applications in Object-oriented programming.

Based on the Java language, through the theoretical teaching and experimental teaching, the students would learn how to use the basic data types, looping statements, select statements, control statements, arrays, and methods to write a simple program. They will have completed understanding of the object-oriented programming through the learning of classes, objects, encapsulation, inheritance, and interfaces, etc. Through learning event handling mechanism, common components, swing, realize the graphical user interface programming; Study the exception handling mechanism, input and output flow, multi-thread mechanism and so on the many kinds of technologies and applications.

《信息安全导 》

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5	1.1 1.2 1.3		3
6	1.1 1.2		2
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Introduction to Information Security, is a course that introduces the basic concepts, principles, methods and technology of information security. Through studying this course, students can have comprehensive and systemic understanding the basic knowledge of information security, the basic ideas, concepts and theories, be familiar with the basics of cryptography, master basic theory of information encryption and information authentication, understand several common network security technologies and understand the standards of information security and information security management. The teaching objectives of the course is to enable students to have a comprehensive knowledge and understanding of the basic concepts, principles, methods, technologies and knowledge systems of information security professionals, and in-depth understanding of the issues of information security.

《信息安全 学基 》

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			The Mathematics of Information Sec rit

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1	1.1 1.2 1.3 1.4 1.5 1.6		10
2	2.1 2.2 2.3 2.4		12
3	3.1 Legendre Euler 3.2 3.3 Jacobi	Legendre Euler Legendre Jacobi	6
4	4.1 4.2 4.3 4.4 4.5 4.6		6
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"*The mathematics of Information Security*" is a basic professional course of information security, which is a strong theoretical course. The goal of this course is to adapt the requirements of information security professional training objectives, so that students can master how to apply the mathematics theory and methods of information security to analyze and study the practical problems of information security. The task of this course is to introduce the theory and methods of the mathematics of information security, to make sure that students can understand the function of mathematics in information security and know the basic thought and the method of analyzing and solving problems. This course includes: integer factorization and extended Euclidean algorithm , congruence, Chinese Remainder theorem, quadratic residue, primitive root and exponent, group, ring, and field, and also makes sure that students can understand and master the basic concept and important theory. The preparatory courses of this course are "*Linear Algebra*" and "*Advanced Mathematics*". This course is closely connected with cryptography, and cryptography is the basic for understanding and mastering the theoretical system of information security.

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As a compulsory professional course for the students of information safety major, Data structure mainly introduces the linear list, stack and queue, string, array and generalized table, tree and binary tree, graph and other common data structures and their applications. This course is not only an important foundation for learning the following courses, such as operating system, compiler theory, database courses, but also is an important foundation for the design and implementation of complex structure of large applications. Through the study of this course, the students master the basic principles and methods of data organization, storage and operation, and cultivate students' ability to design the algorithm, improve students' ability to solve problems independently. This course through repeated practice, learn how to use C language to design various general algorithm, which lays a foundation for further study of the following professional computer related courses. This is conducive to the students engaged in information security technology and product development.

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“Fundamentals of Information Theory” is the basic theory of information subject. Information theory subject is about general rule of information transmission and information procession. There are seven chapters in this course, and all these chapters center on Shannon Information Theory. And discrete information theory is selected as the main contents because this course is arranged for information security major. The general introduction of Shannon Theory is given in the first chapter. The second chapter is about information measure. The quantitative analysis methods of information source and information channel are given in chapter three and chapter four respectively, in which the ability of information source producing information and channel transferring information can be measured quantitatively. Shannon’s three theorems are given in chapter five to chapter seven, and the corresponding coding and encoding methods are explained.

This course can draw the outline of the information basic principle; give students the systemic knowledge of information theory. The students should grasp the general concept of information, and can use the methods given in this course solve the problem interrelated information. So this course can provide some suggestions for solving the complicated engineering problems of information security area and lay foundations for research and application of information science.

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The Practice Course of Data Structure is an assorted practice course of Data Structures to train the students' programming ability. The main contents of the course design include: fractional statistics, polynomial calculation, maze solving, Huffman encoding and decoding, the small text editor, campus navigation, map coloring problem, teaching plan problem games. The curriculum design is to cultivate students' ability to independently develop large programs, debugging techniques of cultivating and improving students' ability of software development, cultivating students' spirit of mutual cooperation, to cultivate students' innovation consciousness, algorithm design and algorithm analysis ability.

《信息安全 律基 》

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4	5.1 5.2 5.3		12

	5.4 5.5 5.6 5.7 5.8 5.9		
5	6.1 6.2 6.3 6.4 Windows 6.5 UNIX 6.6 6.7 6.8 6.9 Internet		4
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Information security is an emerging interdisciplinary. The talents trained by the information security major should not only be proficient in computer and information security technologies, but also master the related legal knowledge of information security. The legal construction of information security is one of the important contents in information security system, and also the norm and evidence for the development of information security technology. This course mainly includes the related concepts, related laws, regulations and rules of information security law; pure computer crime; impure computer crime; countermeasures to computer crime; legal issues related to information security; electronic evidence and computer forensics; computer security grade protection ; computer security and ethics rules and so on. Through studying this course, students can master the legal knowledge related to information security, the main content and related legal provisions of pure computer crime and impure computer crime. Students can further master and understand how to protect the e-government, e-commerce, network intellectual property with legal

means. Students can understand the relationship between law and technology, law and morality by discussion of a large number of cases and hot issues and how to combine moral, management, technology and legal means to protect information security more effectively.

《信息安全前座》

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“Cutting Edge of Information Security” is a professional optional course of the information security major. With the constant renewal and rapid development of information security theory and technique, the course falls into several lectures, which are different topics of information security. These lectures introduce the international and internal frontier technologies and principles of information security, help students to know about the latest research trends of information security and discuss the key problems and challenge of information security. With expanding students' view, some experts are invited to make lectures in this course. According to the up-to-date development of information security technologies, this course will adjust the topics and content of the related lectures.

《密 学》

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3	3 3.1 3.2 3.3 3.4 3.5 IDEA 3.6 AES — Rijndael	DES DES DES IDEA Rijndael Rijndael	10
4	4 4.1 4.2 RSA 4.3 4.4 Rabin 4.5 ElGamal 4.6	RSA RSA	10
5	5 5.1 5.2 5.3 5.4		5
6	6 6.1 6.2 6.3 MD5 6.4 6.5 HMAC	MD5 HMAC	6

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prerequisite course of this course is the mathematics of information security, the follow-up courses are network security protocol and standard and information system security. This course includes the basic concepts of cryptography, classical cryptography, stream cipher, block cipher, public key cipher, key distribution and key management, message authentication and hash algorithm, digital signature and cryptographic protocol. This course systematically introduces cryptography theory and methods and makes students understand the role of cryptography in information security. For adapting to the training objectives of the information security major, the purpose of this course is to make students have a clear understanding to cryptography concepts and system, master the typical representatives of different cryptography algorithms, master the application of the encryption and authentication technologies in information system, and lay the foundation for understanding and mastering the entire information security theory.

《 作 》

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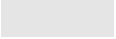
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			Soft are Design and Method
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		2.3		
		2.4		
		2.5		
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		3.1 Arrays		
4		3.2 list	Java	2
		3.3 Map		
		3.4 Set		
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11	7 7.1 7.2		1
12	3-		1

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			4.	windows	
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C

Java

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Java

Java

"*Software Design and Method*" is a course based on a number of basic programming courses and other professional foundational courses, which aims at training students' independent software designing ability and practice.

This course has three main objectives. Firstly, with the two courses "C programming language" and "object-oriented programming course" having studied , students can grasp of the Java programming language further. Secondly, students are taught and guided the use of the developmental environment of the Java language. Thirdly, students can initially grasp the software developmental process and technologies and independently design and make software through their work and the teacher's rigid requirement. The last objective is the most important of all three .

The topics of practice work are divided into two categories. Some topics are the software designing issues assigned by the teacher, which are graded with basic requirement and advanced requirement. Others are the guided topics of students' choices and the devised software must meet the technical requirements.

The result of each topic is independent software. Each topic is finished by each fixed group of students. The grade is evaluated by on-site presentation, demonstration, and reply. The written examination is not set in this course.



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			Comp ter Net orks

TCP/IP

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2	2.1 2.2 2.3 2.4 2.5 2.7		8
3	3.1 3.2 3.3 3.4 3.5 3.6	PPP	PPP CSMA/CD VLAN 8
4	4.1 4.2 4.3 4.4 4.5 4.6	IP ICMP VPN	IP ICMP RIP OSPF BGP IP VPN NAT 14
5	5.1 5.2 5.3 5.4 5.6 TCP 5.7 TCP 5.8 TCP	UDP TCP VPN	UDP TCP TCP TCP 12

	5.9 TCP		
6	6.1 DNS 6.2 FTP 6.3 TELNET 6.4 WWW 6.5 6.6 DHCP 6.7 SNMP 6.8 6.9 P2P	DNS FTP HTTP TCP/IP	8
7	9.1 WLAN 9.2 WPAN 9.3 WMAN 9.4	MAC MAC	8

VPN

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- 7 2017.1
1. James F.Kurose Keith W.Ross - Internet
- 4 2005.6
2. Andrew S.Tanenbaum 5 2013.3
3. W.Richard Stevens TCP/IP 1: 2007.8
4. 2006.12

TCP/IP

Computer Networks is an important professional elementary course of information specialty. It is also the foundation of subsequent course study and practice ability training. The course is centered on computer network's basic principle and application environment, and the development, new technique, architecture and each layer protocol are given systematically. The protocols and technologies of physical layer, data link layer, network layer and application layer in TCP/IP protocol stack are described in detail. And the relevant knowledge on wireless network and mobile network are introduced.

Through this course, students can grasp the knowledge frame of computer networks, master the basic principle and application technology of the computer network. And the basic ability of conducting and maintaining networks and designing the network implementation scheme are cultivated. The course can help students establish the methods of analyzing the practical engineering problems by means of networks knowledge, and provide some suggestions to solve the complicated engineering problems in information security area. The course can also lay a solid foundation for working on the study and application in information science area.

《 密 学 实 》

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HASH

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HASH

"*Cryptography Experiment*" is an independent experimental course in practice teaching of information security professional development program. It is a compulsory and basic professional course of the information security major supporting for "*Cryptography*". This course includes eight experiments: classical cipher experiment, sequence cipher experiment, block cipher experiment, public key cipher experiment, HASH function experiment, key agreement experiment, digital signature experiment and PKI experiment. The goal of the course is to meet the requirements of the

profession training objectives of information security, to enable students to understand and master the classical cipher, sequence cipher block cipher, public key cipher, HASH function, digital signature, authentication protocol, key management and to lay the foundation for students to understand and master the theory and technology of whole information security. Cryptography Experiment is designed to stimulate students' interest, promote students to link the theory and practice of cryptography and improve students' theoretical application ability.

《 作 实 》

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			Lab-Exercise in Operating System
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Windows

Windows

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1		1. Windows API 2. Windows / API 3. 4.	2
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1		4	PC Windows VC6.0		
2		2	PC Windows VC6.0		
3	/	2	/ API 7.5 PC Windows VC6.0		
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The course is a compulsory subject - based course for Information Security graduates, which is an indispensable and independent practice part. It is set up after the compulsory subject course of operating system. This course aims to enable students to grasp the basic principles of the operating system and help students obtain the ability to apply theory to practice and deepen the understanding of theoretical knowledge through practice. Furthermore, through the experiments, this course hopes to improve the students' practical ability and lay a solid foundation for further study and practice in the future. This experiment requires students to complete the thread synchronization and mutual exclusion in the Windows operating system environment, master the establishment and call methods of the dynamic link library achieve file read / write using three ways of unbuffered, high-speed cache and asynchronous and compare the pros and cons of the above three methods. Through the study and practice of this experiment, on one hand, it could help students lay the foundation for the follow-up course of study, on the other hand, which is more important, it could develop students' ability of analyzing, developing and maintaining the computer system software, and truly enable students to adapt to the social needs.

《 实 》

	0BS06917		1
	16	/	16 0
			Comp ter Net orks E periments

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				/	
1		10	Boson Network Designer		

				/	
			PC Designer	Boson Network	
2		6		Sniffer Wireshark	
			PC	Sniffer Wireshark	

2008

1. 2005
2. 2007.3
3. 2012.1
4. 2012.1

Boson Network Designer

IE



Computer Network Experiments

12

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

BP

1	1.1 1.2		4
2	2.1 2.2 2.3		8
3	3.1 3.2 3.3 3.4	ID3 BP	18
4	4.1 4.2		8

5	5.1 5.2 5.3		2

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1		4			
2		4			

30%

70%

- 1.
- 2.

2010.1

2004.10

2007.6

BP

control theory, information theory, psychology, and linguistics. This area is concentrated on how to simulate man's intelligent action by computer. *Artificial Intelligence* is an optional course opened for the students of information security major. It is aimed to broaden the students' knowledge, improve their quality, and lay the foundation on training high quality application

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4	1		4
5	2		4
6	3		4

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2		4	1		

1.

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2010

“*Innovative Practice of Information Security Contest*” is a professional optional course of the information security major. The course introduces the meaning, feature, forms and the training methods of the innovative thinking, the styles of the innovative achievement exhibition, the innovative project selection, design and implementation. The teaching goal of this course is to raise the innovation consciousness; to cultivate the innovative skill; to set up the group spirit; to improve the students’ innovative level. The teaching aim of this course is to improve the capability of integrating and applying the information security knowledge. In this course, the contents and construction methods are given with different levels. The aim of innovation personnel training is achieved by instructing students to participate in the information security contest and other innovative projects, which can embody innovation consciousness, team consciousness and communication capability in practice work.

《 库 及应 》

	0BL06919		3
	48	/	0 8
			Database S stem and Application

《 库 》

	0BS06915		1
	16	/	10 0
			Database Design

《 》

	0BH06317		2
	32	/	0 0
			Net ork Attack and Defense Technolog

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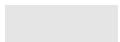
1.

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1	1.1		
	1.2		4
	1.3		
	1.4		
2	2.1		2
	2.2		
	2.3		
3	3.1	Web	
	3.2		6
	3.3 Web		
	3.4		
4	4.1 Dos		
	4.2 Ddos		
	4.3		

	5.3 XSS		
6	6.1 6.2 6.3 6.4 “ ” 6.5	“ ”	4
7	7.1 Windows 7.2 7.3	Windows	2

70%

30%

2009.7

1.

2008.3

2.

2009.9

SQL CSRF XSS

The network has been integrated into all aspects of life and becomes an indispensable part of it, at the same time the endless events of hacker attacks make network security more and more important. The purpose of this course is to make students master various attack techniques of the network and the corresponding defense measures. This course introduces the basic principles and application techniques of network attack and defense ways, including kinds of network attack

methods such as information gathering, denial of service attacks, SQL injection, CSRF and XSS attacks and the related defense technologies. For the specific attack technology, firstly you should analyze the principle, describe the process, put forward the appropriate defense measures, and then combine with the case, emphasize the network security knowledge required in practical application to help students to master the network attack and defense skill.

《 原 》

	0BL06315		2.5
	40	/	0 0
			Compiler Principles

1 2 3 9 10 11

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1	1. 2. 3. 4.		4
2	1. 2. 3.		6
3	1. 2. 3. 4. 5.		6
4	1. 2. 3. 4. 5. LR	LR	6
5	1. 2. 3. S-	L- S-	4

	4. L- 5.		
6	1. 2. 3. 4. 5. 6.		4
7	1. 2. 3. 4. 5.		2
8	1. 2. 3. 4. 5. 6.		4
9	1. 2. 3. 4. 5. 6.		4

1.

2.

70%

30%

1. 2 2005
2. Alfred V.Aho Ravi Sethi Jeffrey D.Ullman 3 2000
Compilers Principles, Techniques, and Tools , 2004
3. .
2004
4. 2009.

“*Compiler Principles*” is a professional compulsory course of the information security major. The course introduces the general construction principles and the basic implementation ways of the programming language and includes six sections: lexical analysis, syntax analysis, semantic analysis, transitional codes generation, code optimization and object code generation. The course is an important main course of Computer Software, Security of Cyberspace and so on. Compiler principles and technology falls into the field of the theoretical computer science, which is an important branch of the computer science.

Students can learn general compiler principles, compiler technology and reversing techniques, and have the ability to design and analyze the compiler code from this course. And this course can make students comprehend compiler theory and technology of each programming language further, then improve their integrated application skill of software technology, which can embody innovation consciousness, team consciousness and communication capability in practice work

Complier Principle Course Design .

《 原 》

	0BS06303		1
	1	/	0 16
			Compiler Principle Course Design

1 2 3 9 10 11

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1		4	Token		
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3		4			

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	2	2005
1.	3	2000
2.	.Alfred V.Aho Ravi Sethi Jeffrey D.Ullman	
	Compilers Principles, Techniques, and Tools	2004
3.		
	2004	
4.		2009.

“*Compiler Principle Course Design*” is a professional compulsory course of the information security major. The course introduces the general construction principles and the basic implementation ways of the programming language and includes six sections: lexical analysis, syntax analysis, semantic analysis, transitional codes generation, code optimization and object code generation. The course design consists of the design and implement of lexical analyzer, syntactic analyzer and small compiler program. The course is an important main course of Computer Software, Security of Cyberspace and so on. Compiler principles and technology falls into the field of the theoretical computer science, which is an important branch of the computer science.

Students can learn general compiler principles, compiler technology and reversing techniques, then have the ability to design and analyze the compiler code from this course. And this course can make students comprehend compiler theory and technology of each programming language further, then improve their integrated application skill of software technology, which can embody innovation consciousness, team consciousness and communication capability in practice work .

《 实 》

	0BS06324		1
	1	/	16
			Net ork Attack and Defense Combat

				/	
1		4	Web		
2	SQL	4	SQL SQL SQL		
3	CSRF	4	CSRF CSRF CSRF CSRF		
4	XSS	4	XSS XSS XSS XSS		

80%

20%

2009.7

Dafydd Stuttard

2014.8

XSS

The network has been integrated into all aspects of life and becomes an indispensable part of it, at the same time the endless events of hacker attacks makes network security more and more important. This course is the practical course of the course "*Network Attack and Defense Technology*". The purpose of this course is to make students to exercise all kinds of network attack and defense skills in actual combat and solve common network security problems in reality. The course introduces the actual use of various attack and defense means, including information gathering, denial of service attacks, SQL injection, CSRF and XSS attacks, as well as other network attack methods and defense techniques, which requires students to skillfully use common network attack and defense to.

《Linux/Unix 应 与实 》

	0BS06321		3
	3	/	0 32
	Lin /Uni		Application and Practice of Lin /Uni

Linux/Unix

Linux/Unix

1. Linux/Unix Linux/Unix Linux/Unix
2. Linux/Unix C
3. Linux/Unix Shell
- 4.

1	Linux 1.1 Linux 1.2 Linux 1.3 Linux 1.4 Linux Unix	Linux Linux Linux Unix	2
2	RedHat Linux 2.1 RedHat Linux 2.2 2.3	RedHat Linux	1
3	Linux 3.1 3.2 3.3 3.4 3.5 3.6	Linux	4
4	Linux 4.1 4.2	Linux	3
5	Linux shell 5.1 shell 5.2 5.3 5.4 5.5	Linux shell	3
6	Linux C 6.1vi 6.2 C GCC 6.3 6.4 GDB 6.5 make	C GCC make	3
			16

					/	
			<p>1 bash myenv</p> <p>“Hello!”</p> <p>2 chmod myenv</p> <p>+10</p> <p>f1 f1</p> <p>1 shell</p> <p>10</p> <p>stuxx xx 01 10</p> <p>2 shell 10</p> <p>stud01 stud10</p> <p>Linux shell</p> <p>PC redhat9.0</p>			
4	Linux	C	4	<p>1 “ t9.0</p> <p>2 cos 3.14/2</p> <p>3 C</p> <p>main</p> <p>factorial</p> <p>main.c factorial.c ,</p> <p>4 makefile 3</p> <p>main.c factorial.c</p> <p>myfact</p> <p>Linux C</p> <p>PC redhat9.0 Gcc</p>		
5	Linux		4	<p>1. fork vfork clone</p> <p>2.</p> <p>Linux C</p>		

				PC	redhat9.0	Gcc	/
6	Linux	12	1. FCFS 2. SSTF 3. SCAN 4. CSCAN				fork
			vfork				
				PC	redhat9.0	Gcc	
		32					

Linux/Unix

12

50%

50%

Linux

2014 6 1

1.

2008

9 1

2.

2014 9 2

Linux/Unix

Linux/Unix

Linux/Unix

Linux/Unix

Linux/Unix

Linux/Unix

C

Linux/Unix

The course is a compulsory subject - based course for Information Security. It is an operating system extension course that emphasizes on operation and practice under the Linux / Unix environment, which is set up after the compulsory subject course of operating system.

The main content of this course is the use and operation of the Linux / Unix , including the use of Linux / Unix common commands, Linux / Unix system management, C / C programming in Linux / Unix environment, such as editing, compiling and debugging tools, the Shell Programming of Linux / Unix Environment, and design and implementation of simulation algorithm of operation system.

This course emphasizes practice. This course aims to enable students to grasp the basic principles of the operating system and help students obtain the ability to apply theory to practice and deepen the understanding of theoretical knowledge through practice. Furthermore, through the experiments, this course hopes to improve students' practical ability and lay a solid foundation for further study and practice in the future.

《Java 企业 开发》

	0RH06312		2.5
	40	/	0 16
	Ja a		Ja a Enterprise De elopment
	Ja a		

Java

Web

Java

Java

3+

3+

2

Java

1

Java

Web Java

2

IT

Java

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Java

4

Java

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Java

6

Java

7

Java

Java

8

JavaScript

3. Java

1	Java	Web Web	Web Java	2
2	HTML	Java EE Web	Java EE HTML HTML	4
3	CSS			4
4	JavaScript		JavaScript Javascript	2
5	Java EE	Java Web JavaEE	Java EE JavaEE	1
6	Servlet	Servlet Servlet	Servlet Servlet	3
7	Java Web	JDBC JDBC	Java Web	3
8	JSP	JSP JSP	JSP JavaBean	5
				24

					/
1	HTML	4	Web 4 PC JavaEE		
2	Servlet	4	Servlet		

					/
				6	
			PC	JavaEE	
3	Servlet	4	JDBC		
				7	
			PC	JavaEE	
4	JSP JavaBean	4	JSP	JavaBean	Java
				8	
			PC	JavaEE	
		16			

Java

Java

70% 30%

Java Web

2012.8

1. Java EE 3 —Struts 2 Spring 3 Hibernate

2011.3

2. Web 2009.12

Java

Web

Java

Java

This course is a professional elective course for the major of Information Security. The goal of the course is to enable students to understand and learn the latest software application architecture after mastering the course of database system foundation and Java programming, to

master the related technology of Web client programming and the enterprise-class software system methods of development environment configuration, software development and software deployment on the Java platform. This course aims at improving the students the quality of the development of enterprise-class applications and lays a good foundation for the students who will be engaged in information systems software or enterprise-class software development on the Java platform.

《 序 》

	0RH06317		3
	48	/	16
			Net ork Programming
	C		

1.

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4.

Python

1	<p style="text-align: center;">Python</p> <p>1.1 Python</p> <p>1.2 Python</p> <p>1.3</p> <p>1.4</p> <p>1.5</p> <p>1.6</p> <p>1.7</p> <p>1.8</p>	<p style="text-align: center;">Python</p> <p>Python</p>	8
2	<p style="text-align: center;">IPv4</p> <p style="text-align: center;">/</p> <p>2.1 IPv4</p> <p>2.2</p> <p>2.3</p> <p>2.4</p> <p>2.5</p> <p style="text-align: center;">/</p>	<p style="text-align: center;">IPv4</p> <p style="text-align: center;">/</p>	6
3	<p style="text-align: center;">I/O</p> <p>3.1 ForkingMixIn</p> <p>3.2 ThreadingMixIn</p> <p>3.3 select.select</p> <p>3.4 select.epoll</p> <p style="text-align: center;">Web</p>	<p style="text-align: center;">ForkingMixIn</p> <p style="text-align: center;">ThreadingMixIn</p> <p style="text-align: center;">select.select</p> <p style="text-align: center;">select.epoll</p> <p style="text-align: center;">Web</p>	6
4	<p style="text-align: center;">HTTP</p> <p>4.1 HTTP</p> <p>4.2 HTTP</p> <p>4.3 cookie</p> <p>4.4</p> <p>4.5 HTTP</p> <p>4.6 Python OpenSSL</p> <p>HTTPS</p>	<p style="text-align: center;">HTTP</p> <p style="text-align: center;">HTTP</p> <p style="text-align: center;">cookie</p> <p>HTTP</p> <p>Python OpenSSL</p> <p>HTTPS</p>	6
5	<p>5.1</p> <p>5.2 pcap</p> <p style="text-align: center;">pcap</p>	<p style="text-align: center;">pcap</p> <p>pcap</p> <p style="text-align: center;">HTTP</p>	6

	5.3	HTTP		
	5.4			
	5.5			
	5.6			

					/
1	Tracert	Ping	Ping	Tracert	Tracert
2				TCP	
3	ARP	ARP	ARP	ARP	

30

70%

Python

I.O. Faruque Sarker

2015

Python

2014

HTTP



"*Network Programming*" is a programming course in the network environment, and all programming projects are related to network characteristic. Information security researches involve the network security researches, and the realization of network security technology is heavily relying on network programming. This course introduces basis of Python language, socket, IPv4, and simple client / server programming, how to use multiple sockets I / O to improve performance, HTTP protocol, network monitoring and security. This course can consolidate students' understanding to computer network knowledge and improve students' programming ability. It can lay foundation for the following courses such as "*Information system security*", "*Information System Security Course Design*" and "*Graduation project*". Students need to learn to use the Python language to solve common problems in the network. Students can master the principles and techniques of programming under the network security environment and the programming method of network protocols and applications on the basis of detailed analysis of the network protocols.

《 动应 开发与实 》

	0RH06318		3
	48	/	0 16
			Mobile Application De elopment and Practice

O B N O

1

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IT

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Android

Android

1	Android 1. 2. Android 3. Android 4. Android	Android Android	2
2	Android 1. Android 2. Android	Android Android Android	2
3	Android 1. 2. Android 3. Activity 4.	Android Android Android	4
4	Android 1. 2. 3. 4.		10
5	1. Intent 2. Intent 3.	Intent Intent Activity Activity Intent	4
6	1. SharedPreferences 2. 3. 4.	SharedPreferences SQLite Content Provide	6
7	1. 2. 3.		4
			32

1	Android	4	Android PC android	4	/
2		4	Intent Intent PC android	5	Intent
3	Android	4	Lite PC android	6	Shared Preferences Files SQL
4		4	Android PC android	7	
		16			

70% 30%

1. []Reto Meier , Android 2 2012.5
Android 4 3
2013.11
2. android 2012.10

Android

Android

Android

This is a professional compulsory practice for the major of the Information Security graduates. It is designed to develop the students' ability of mobile application development.

The basic contents of the course include Android system foundation, interface design of mobile application development, Android application design, component communication mechanism, data storage and access and multimedia application.

This course emphasizes practice. Through the study of this course, the students could understand the basic concepts and characteristics of the mobile operating system and mobile software. This course takes Android mobile platform operating system as the teaching case, making the students master the basic characteristics, the basic processes and the basic methods of mobile software development, improving the students' practical ability of the mobile application software development. This course commits to improving the students' ability of theory to practical, to further deepen the understanding of theoretical knowledge, which will improve the students' practical ability, and lay a solid foundation for further study and practice in the future.

《 入侵 实 》

	0RS06304		2
	32	/	0 20
			Practice of Intr sion Detection Techniq e
	C		

3 5

1. VMWARE Linux OSSEC SNORT

2. / OSSEC SNORT

3.

OSSEC SNORT

1	1.1 1.2 1.3 1.4 1.5		2
2	2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8		2
3	OSSEC 3.1 OSSEC	OSSEC OSSEC	2

	3.2 OSSEC 3.3 OSSEC 3.4 OSSEC		OSSEC OSSEC
4	4.1 TCP/IP 3 4.2 4.3 4.4 4.5	sniffer Libpcap , BPF Winpcap	2
5	Snort 5.1 Snort 5.2 Snort 5.3 Snort 5.4 Snort 5.5 Snort	Snort Snort snort Snort	2
6	6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8		2

				/	
1	OSSEC	4	1. 2. OSSEC 3. OSSEC VMWARE window linux OSSEC		
2	OSSEC	4	OSSEC 1. Log analysis 2. File Integrity checking For Unix and Windows 3. Registry Integrity checking For Windows 4. Host-Based anomaly dection For Unix - RootKit dection 5. Active response		

			VMWARE		/
			window linux OSSEC		
3	SNORT	4	1. SNORT 2. SNORT 3. SNORT VMWARE window linux SNORT		
4	SNORT	4	1. SNORT 2. SNORT VMWARE window linux SNORT		
5	SNORT	4	1. SNORT VMWARE window linux SNORT	2.	

C

1.

50% 50%

2.

1

2

3

4

5

1. SNORT 2009.7

2. Andrew Hay Daniel Cid Rory Bray OSSEC Host-Based Intrusion Detection Guide

2007.5

OSSEC

SNORT

Intrusion detection technology is one of the important technologies in network security technology. It collects information from several key points of the computer network or computer system and analyzes it to discover anomalies of the network or system. Intrusion detection technology, can detect not only external attacks but also internal attacks or misuse. This course includes host-based intrusion detection application software OSSEC and the installation, configuration and use of network-based intrusion detection software SNORT. This course can improve students' interest and practical ability, strengthen students' understanding about the principles and composition of intrusion detection system, intrusion detection processes, intrusion detection applications and so on.

《 安全协 与 准 》

	0BL06309		2
	32	/	0 0
			Net ork Sec rit Protocol and Standard

1

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TCP/IP

1	1.1 1.2 1.3		2
2	TCP/IP 2.1 TCP/IP 2.2 TCP/IP 2.3 TCP/IP	TCP/IP TCP/IP	2
3	3.1 3.2 PPP 3.3 PPTP 3.4 L2TP	PPP PPTP L2TP PPTP L2TP PPTP L2TP PPTP L2TP	2
4	IPsec 4.1 - IPsec - - - - 4.2 AH 4.3 ESP 4.4 IKE	IPsec IPsec AH ESP IKE IPsec	4

5	<p>SSL TLS</p> <p>5.1</p> <p>5.2 SSL/TLS</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>5.3 TLS</p> <p>5.4 TLS/SSL</p> <p>5.5</p>	<p>SSL/TLS</p> <p>SSL TLS</p> <p>TLS</p> <p>TLS/SSL</p>	4
6	<p>6.1</p> <p>6.2</p> <p>6.3 PGP</p> <p>- PGP</p> <p>- PGP</p> <p>- PGP</p> <p>- PGP</p> <p>6.4 S/MIME</p> <p>-S/MIME</p> <p>- S/MIME</p> <p>- S/MIME</p> <p>- S/MIME</p> <p>6.5 PGP S/MIME</p>	<p>PGP S/MIME</p> <p>PGP S/MIME</p>	4
7	<p>SET</p> <p>7.1</p> <p>7.2 SET</p> <p>-</p> <p>-</p> <p>- SET</p> <p>7.3 SET SSL</p>	<p>SET</p> <p>SET</p> <p>SET</p> <p>SET</p>	2
8	<p>8 SNMP</p> <p>8.1 SNMP</p> <p>8.2 SNMPv3</p> <p>8.3 SNMPv3</p>	<p>SNMP</p> <p>SNMPv3</p> <p>SNMP v3</p>	2
9	<p>9 Kerberos</p> <p>9.1 Kerberos</p> <p>9.2 Kerberos</p> <p>9.3 Kerberosv.5</p>	<p>Kerbers</p> <p>Kerbers</p> <p>Kerberosv.5</p>	2

10	10 10.1 IEEE802.11 10.2 IEEE802.11i 10.3 10.4 TLS	IEEE802.11 IEEE802.11i WAP WTLS	2
11	11 11.1 11.2 11.3 BAN 11.4 11.5 BAN NSSK	; ; BSN BAN	4

80%

20%

2008.3

1. 2005.12
2. William Stallings 4 2010.7
3. Bruce Schneier C , , 2006.9
4. 2011.5

TCP/IP

PPTP L2TP IPsec

SSL TSL PGP S/MIME SET SNMP3

TCP/IP

Network security protocol refers to the protocol based on cryptography and the communication protocol that can achieve the secure exchange of information and security purpose, which is one of the core issues in network security architecture. The security protocol is also the link that cryptography technologies are applied in network security. It occupies an important position in the security of information system. This course includes the basic concepts of security protocols, the security risks and security architecture of TCP / IP protocol suite, the link-layer secure communication protocols PPTP and L2TP, the network layer security protocol IPsec, the transport layer security protocols SSL and TLS, the application layer security protocol PGP, S / MIME, SET, SNMP3, security analysis of the security protocols and so on. Through studying this course, students can master the basic concepts, basic principles and key technologies of the security protocols, understand the formalized analysis methods of the security protocols. Students can further understand and master the security architecture of TCP / IP protocol clusters, the principles, security features and practical applications of some important and common security protocol standards and the security analysis methods of security protocol.

《信息 分 与 》

	0BH06105		3.5
	56	/	0 16
			Information Systems Analysis and Design

1.

2. /

3.

4.

1	1 1. 2. 3. 4.		2
2	2 1. 2. 3. 4. 5. 6.	CASE	4
3	3 1. 2. 3.		2
4	4 1. 2. 3. 4. 5. 6.		4
5	5 1. 2. 3. 4.ER	ER	6
6	6 UML		6

			UML	
	1. 2. 3. 4.			
7	7 1. 2. 3. 4.			2
8	8 1. 2. 3. 4. 5.			6
9	9 1. / 2. 3. 4. 5. 6.		/	4
10	10 1. 2. 3. 4.			2
11	11 1. 2. 3. 4. 5.			2

				/	
1		4	4 4.5 PC IBM Rational Rose		

The course introduces basic concepts, development method and common softwares of information system. Main contents include: information system building outline, information system plan, information system analysis, information system design, information system implementation and maintenance. The key points are data flowing modeling and business process modeling, use case modeling and object modeling in information system analysis, and structured design method, object-oriented design and detailed design in information system design.

Students can acquire basic principles, method and technology of information system development, understand each step and their content in information system development and finish information system analysis and design by popular method and technology. Students can also acquire the ability of business process modeling, requirement analysis, system design, programming and system maintenance in information system. Students can also acquire the ability of effective and efficient communication, drafting system report, speaking publicly, giving clear statement and so on.

《 恶 代 分 与 实 》

	0BS 122		4
	6	/	32
			Anal sis and Protection of Malicio s Code
	C		

1.

2.

3.

4.

1	1.1 1.2 1.3 1.4		2
2	2.1 2.2 80X86 2.3 Windows 2.4 2.5 PE		4
3	Windows PE 3.1 Windows PE 3.2 Windows PE 3.3 Windows PE 3.4 Windows PE	Windows PE PE Windows PE Windows PE Windows PE	4
4	4.1 4.2 4.3 4.4 4.5		4

5	5.1 5.2 5.3 5.4 5.5		6
6	6.1 6.2 6.3Rootkit 6.4	Rootkit	4
7	7.1 7.2 7.3 7.4 7.5 7.6		4
8	8.1 8.2 8.3		4

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1	VMWare	2	VMWare PC VMWare		
2		2	PC VMWare		
3	PE	4	Windows PE PE 2.5 PE PC VMWare stud_pe OLLYDBG		



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			PE		
				HOST	
4	Windows PE	4	PEditor	PE Explorer	PE
				Windows PE	
			PC	VMWare	PEditor PE
			Explorer		
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5	Mini	4			
			PC	VMWare	Microsoft Visual
			C++ 6.0		
6		2			
			PC	VMWare	
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			PC	VMWare	
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			Rootkit Unhooker		
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1. 2015.9

2. 2014.4

Windows PE

This course introduces the basic concept of malicious code, analyzing and protecting methods of malicious code in detail. The course contents include concepts and classification of malicious code, fundamental of software safety, analysis and protection of malicious code virus, Trojan horse, worm and other malicious code, virus testing technique, and self-protection technique of malicious code, and so on. More importantly, by the way of practice, students can deeply understand the malicious code mechanism, can construct the analyzing environment of malicious code proficiently, and can manually analyze and remove malicious code by appropriate tools of information security area.

By learning this course, students can master the concept of malicious code, the theory, key technology and precautionary method of different kinds of computer virus, then students can have

the ability of analyzing and manually removing the special virus samples by appropriate methods and tools. The practical training of this course can cultivate sense of innovation and team spirit and communication ability.

《信息 安全 》

	0BS06323		1
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			Information S stem Sec rit

1	1. Internet 2. WEB		8

	FTP 3. 4. PC 5. 6. 5		
2	1. 2. 3.		4
3	1.		4

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1. 2009
2. 2005
3. :Web , 2011

"*Information System Security Course Design*" requires students to master the theoretical

knowledge and technologies involved in the two courses "*Computer network*" and "Information system securitism

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1	1.1 1.2 1.3 1.4 1.5		2
2	2.1 - 2.2 2.3 - 2.4 2.5	- -	4
3	3.1 3.2 3.3 TPM 3.4 TPM 3.5 TPM	TPM TPM TPM	4
4	4.1 4.2 4.3 4.4 4.5 4.6 4.7		4

5	5.1 5.2 5.3 5.4 5.5 5.6	ACL	ACL	6
6	6.1 6.2 6.3 6.4			4
7	7.1 7.2 7.3 7.4	CPU TPM	CPU TPM	4
8	8.1 8.2 8.3 8.4			4

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1		4	L0phtCrack5		
2		4	ARP ARP		
3		4			
4		4	Easy Recovery		

《 安全协 与 准 》

	0BS06315		1
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			C rric 1 m Design of Net ork Sec rit Protocol and Standard

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1	IPSec	4	IPSec 2.1 IPSec 2.2 Windows IPSec VMWARE window window		
2	WEB SSL	4	SSL 3.1 SSL 3.2 web SSL VMWARE window window IIS		
3	OpenSSL Web	4	SSL 4.1 OPENSSSL 4.2 Web		
4	Web SSL	4	4.3 SSL		

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		IPSec		WEB	SSL
OpenSSL	Cryptlib		WebServer		

Network security protocol refers to the protocol based on cryptography and the communication protocol that can achieve the secure exchange of information and security purpose, which is one of the core issues in network security architecture. The security protocol is also the link that cryptography technologies are applied in network security. It occupies an important position in information system security. Security protocol and standard course design is the essential practice part of the network security protocol course. This course includes three experiments: the security configuration and application of IPSec, the connection setup and application of WEB-based SSL, and using OpenSSL or Cryptlib toolkit to achieve a secure WebServer. Hence, it can achieve the following purposes: Firstly, students can enhance their understanding and awareness to the related concepts and applications, intrigue their interest to the relevant theoretical courses, and increase their practical ability through the operation, configuration and application of the relevant software; Secondly, students can enhance their understanding to the function, principles and applications of network security protocols and their ability of the engineer designing through designing, developing and achieving a simple security protocol by themselves.

《 墙与 VPN 分 》

	0RH06314		2.5
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	VPN		Fire all and VPN Techniq e

VPN

VPN

VPN

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VPN

VPN

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VPN

1	1.1 1.2 1.3		2
2	2.1 OSI TCP/IP 2.2 TCP/IP	OSI TCP/IP TCP/IP	2
3	3.1 3.2 3.3 3.4 NAT	NAT	4
4	4.1 4.2 4.3 4.4		2
5	5.1 5.2 5.3		2
6	6.1 6.2 6.3		2
7	VPN 7.1 VPN 7.2 VPN 7.3 VPN	VPN VPN VPN	2
8	VPN 8.1 8.2 8.3		2
9	VPN 9.1 IPSec	IPSec PPTP/L2TP	SOCKS 2

	9.2 PPTP/L2TP 9.3 SOCKS		
10	VPN 10.1 VPN 10.2 VPN	VPN VPN	2
11	VPN 11.1 11.2 VPN	VPN	2

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2		8	Iptable/ISA IP Iptable/ISA		
3	VPN	4	VPN Internet VPN	VPN	

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- 1. 2004
- 2. 2010
- 3. VPN 2004

VPN

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VPN

“*Firewall and VPN Technique*” is a professional optional course of the information security major. Firewall and VPN are two important network security technologies at present. The course introduces the basic concept, implementation theory, configuration method, deployment technique and up-to-date products and technologies of the firewall and VPN technique. Through studying the course, students can learn general principles of the firewall and VPN, comprehend the general principles of firewall and VPN implementation technique, master the basic knowledge of the application and maintenance of firewall and VPN, and then solve the security problems in the practical application. Hence, the course puts particular emphasis on practice contents, which can embody innovation consciousness, team consciousness and communication capability in practice work.

《 专业 》

	0RL06311		2
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			Speciali ed English

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1	Chapter 1 Computer Software and Software Security 1. System Software 2. Application Software 3. Secure Software and Software Security		4
2	Chapter 2 Cryptography 1. Cryptographic Services 2. Cryptographic Primitives 3. Cryptographic Protocols		4
3	Chapter 3 Hacker Attack Technology 1. The Definition of Hacker		4

	2.Attack Classification 3. Attacker Methodology		
4	Chapter 4 Network Security Protocols 1. SET 2. SSL 3. IPSEC	SET SSL IPSEC SSL IPSEC SET	8
5	Chapter 5 Network Firewall 1. What Is a Firewall? 2.What Firewalls Do 3.What Firewalls Cannot Do 4.Types of Firewalls		4
6	Chapter 6 Intrusion Detection Systems 1.IDS Overview 2. Host-based IDS HIDS 3. Network-based IDS NIDS 4. IDS Techniques		4
7	Chapter 7 Viruses and Malicious Code 1. What Is Virus? 2. Types of Viruses 3. Protection		4
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. English of Science and Technology

for Information Countermeasure Techniques and Network Security.

2007

. English for Information Security.

2007

"*Specialized English*" is the optional theoretical course of the information security professional development plan. Through the study of this course, students will have a certain degree of professional reading comprehension and a certain amount of professional vocabulary, have a certain international perspective and communicate and exchange under the cross-cultural background, and have independent learning and lifelong learning awareness and the ability to learn and adapt to the development. This course includes computer software and software security, cryptography, hacker attack technology, network secure protocols, network firewall, intrusion detection systems and viruses and malicious code. This course promotes students' understanding to international current research on information security, broadens students' international perspective, improves students' reading ability of English professional papers. It can lay the foundation for the future international education and international communication.

《信息安全工 实 》

	0RS06301		2
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			Information Sec rit Engineering Practice

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This course is a professional optional course of the information security major. Mainly through the participation of teachers' research projects or open experiments and so on, it enhances students' initiative learning and hands-on practice ability, develops students' ability of finding,

analyzing and resolving problem. It makes use of the topic-centered learning model to carry out a variety of topics of information security and puts the most advanced network security research hotspot and network security technology into engineering practice so that students can grasp the knowledge of network security and develop the technical sensitivity on new technologies and new hotspots and the analysis and research capabilities on network security problem. The goal of teaching is to cultivate students' practice ability of information security engineering and students' innovation consciousness, and to enhance students' ability of comprehensive knowledge and application of information security. This course adopts a hierarchical research construction method to guide students to participate in research projects, open experiments or innovation projects to achieve the purpose of innovative personnel training, which can embody team awareness and communication skill in practice work.

《信息安全 分 实 》

	0RS06303		2
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			Practice of Data Analysis in Information Security

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design machine learning model, then implement analyzing and detecting system of DNS attack in response to attack against DNS system such as DNS cache pollution, DNS spoofing, DNS hijacking, denial of service attack and distributed denial of service attack.

《信息安全 与 估》

	0BL06319		2
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			Information Sec rit Management and Risk Assessment

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1	1.1 1.2		4
2	2.1 2.2		2
3	3.1 BS7799/ISO27000 3.2		2
4	4.1 4.2 4.3 4.4 4.5 4.6 4.7		6
5	5.1 5.2 5.3		8
6	6.1 6.2		2
7	7.1 7.2		4

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Information security management is developing following the development of information and information security. To ensure the safety of information and information system, aims and strategies must be generated in the aspects of management and technology, and according methods and means and control measures should be adopted. Information security management and risk assessment can help students know the complete information security management architecture, train the integrated ability to solve the information system security problem, then promote the training objective realization of information security major. Through this course, students of information security major can master the basic knowledge of information security management and information security risk assessment, master the risk assessment ways, and establish the

procedure of information security management and risk assessment, and then have the elementary ability of implementing the information security management.

Contents of course include: understand the basic theory and methods of information security management and information security risk assessment, master procedure of establishing the information security management system and information security risk assessment system, have the elementary understanding of hierarchy protection architecture.

《信息安全 与 估 》

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			Information Sec rit Management and Risk Assessment

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The course design is an important practice component of information security personal training. It can train the integrated ability to solve the information system security problem, and promote the training objective realization of information security major. Through this course, students can make full sense of contents of information security management system, then the teaching requirements can be achieved. The course design can make students master procedure of establishing the information security management system and information security risk assessment system, and grasp the contents and the writing style of information security management system and information security risk assessment reports.

Contents of course include: understand the basic theory and methods of information security management and information security risk assessment, master procedure of establishing the information security management system and information security risk assessment system, have the elementary understanding of hierarchy protection architecture by the way of practice and communication.

《信息安全专业 合实习》

	0BS06309		2
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			Integrated Internship in Information Sec rit

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Patric Engebretson
Stuart McClure

2014.9
2014.5

This course focuses on cultivating the ability of students major in information security to comprehensively utilize their professional knowledge, which is a comprehensive practice after students master the relevant knowledge and technology, including cryptography, firewall technology, intrusion detection technology, virus technology, network attack and defense. Through the participation of actual enterprises' operation management, technical support or application development and other practical activities of the information security system to cultivate the ability of students major in information security to comprehensively utilize their professional

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Computer Principle and Composition is a compulsory subject - based course for Information Security graduates. Since 2009, this course has become one of the subjects of the National Basic Examination for Postgraduates in Computer Science, highlighting the importance of this course in computer science. This course is devoted to introduce the computer hardware system and its composition, including the composition, working principle of the arithmetic unit, the controller, the storage system and the I / O system. Through this course, students should master the basic composition, working principle and engineering of the computer hardware system, grasp the basic knowledge of computer hardware, and establish the concept of machine control. As a result, the course aims to train students engaged in the capacity of analysis, design, development and use of hardware system.



	0RS06302		2
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			Penetration Testing Techniq e

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1	1.1 1.2 Kali Backtrack Linux 1.3 1.4	PC	2
2	2.1 2.2		2
3	3.1 3.2 ping ping 3.3 3.4		2
4	4.1 4.2 medusa 4.3 Metasploit 4.4 4.5 4.6 4.7 Armitage		4
5	5.1 5.2 SET 5.3		2

1. Patrick Engebretson

2014.8

2. Metasploit

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《 业 》

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			Grad ation Design of Information Sec rit Major

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"Graduation project" is an important professional comprehensive practice course of information security major. Students are required to design a practical project in the field of

cyberspace security, to solve a practical problem by making full use of professional knowledge and technology of cyberspace security. Through the graduation project, students can apply all kinds of theoretical knowledge and skills, carry out comprehensive, systematic, strict skills and basic ability of practice. Graduation design is also an important practice for students before they go to work.

审 学专业

《 审 专业导 》

	0BH06406		1
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			Introd ction to comp ter a diting

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This course is one of the basic courses for students majored in auditing computer auditing , and it is an introductory course for auditing majors. Based on accounting law and audit law, the course gives summary explanation on accounting informationization and audit informationization, and put emphasis on computer data auditing and information system audit. It could be very helpful for students' understanding of accounting, auditing and computer technology. Students can perceive the profound influence of computer technology on accounting and auditing, and have a preliminary understanding of the in the future study, work or study in the field. By simulating enterprise operation mode by enterprise management sandbox software in the experiment, students can experience the enterprise management elements, processes and operating rules, and realize the importance of team management. Through the course, students will have the opportunity to understand the core of enterprise management, and to recognize the importance of financial management for the enterprise. Through the introduction of theoretical and practical aspects, students will arouse interest of professional courses, have good understanding of professional curriculum settings and enhance the desire to master the professional knowledge of computer audit.

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《信息 基 》

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			Fo ndation of Information S stems

《会 学原 》

	OBL06415		2.5
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			Acco nting principle

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9	9.1 9.2 9.3		2
10	10.1 10.2 10.3 10.4		3
11	11.1 11.2 11.3		3
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“Accounting Principles” is the basic course for students majored in computer audit. Students should learn management principles before the subject. Follow-up courses are "financial accounting" and "cost accounting". This course is mainly about the basic principle of accounting, including the basic meaning and development of accounting, accounting functions and objectives, accounting elements and basic principle, accounting confirmation and measurement, accounting titles and accounts, double entry bookkeeping principle and application, accounting vouchers and accounting books, cost calculation, preparatory work of accounting statement, financial accounting reports, accounting procedure, accounting regulation system and accounting work organization etc.. Through this course, students can realize the importance of learning accounting theory, grasp the basic concepts and theory of accounting, including basic knowledge of accounting, the basic principle and method of accounting recognition, measurement, recording and reporting, general procedures and steps of accounting work. Students can also lay a good foundation for the follow-up professional courses.

《 微 学 》

	0BL06913		3
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			Microeconomics

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	0BL06915		2.5
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			Data Structure
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《 实 》

	0BS06114		1
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			Data Structure Practice
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《 实 作 》

	0BL06902		2.5
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			Practical Operating System
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《 实 作 实 》

	0BS06209		1
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			Lab-Exercise in Practical Operating System
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《 务 会 (一) 》

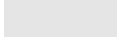
	0BL06416		3.5
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			Financial Accounting one

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7	7.1 7.2 7.3 7.4 7.5 7.6		6
8	8.1 8.2		6

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"Financial accounting I" is one of the core courses of computer audit majors, is the prerequisite of "financial accounting II" and "senior accounting". It plays a connecting role between the preceding and the following courses in the curriculum system. The course is mainly about the preparation of general financial report for the general business of the basic economic business. In the background of enterprises, this course is based on "decision usefulness theory" and "accounting standards for enterprises", and is focusing on basic business process of "six major accounting elements". For disclosure of accounting information, detailed business specific accounting treatment and the preparation method of income statement and balance sheet are introduced with accounting recognition, measurement, record and report as the main line, according to the order of six major accounting elements assets, liabilities, owners' equity, revenues, expenses and profits. Through the course, students can master the basic principle and method of financial accounting, conduct accounting correctly for the basic economic business of general enterprises, and improve the ability of analyzing and solving problems of economic business, so as to achieve graduation requirements of auditing majors. This course addresses the assets element of the six accounting elements.

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Tax law is an importan

The purpose of this course is to make the students be familiar with the basic theories of tax law, grasp the main contents of the current tax system of our country, to help students complete undergraduate professional courses, grasp basic theory and knowledge in taxation field, to train students to combine knowledge of taxation theory with practice problems, improve analysis ability to solve practical problems and have the ability to implement tax audit initially.

《 务会 (二) 》

	0BL06417		2
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			Financial Accounting t o

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3	3.1 3.2 3.3 3.4 3.5 3.6		4
4	4.1 4.2 4.3 4.4		6

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Financial accounting" (II) is one of the core courses of computer audit majors. It plays a connecting role between "financial accounting" (I) and "senior accounting". As a supplement of "financial accounting" (I), the course is mainly about the preparation of general financial report for the general business of the basic economic business. In the background of enterprises, this course is based on "decision usefulness theory" and "accounting standards for enterprises", and is focusing on basic business process of "six major accounting elements". For disclosure of accounting information, detailed business specific accounting treatment and the preparation method of income statement and balance sheet are introduced with accounting recognition, measurement, record and report as the main line, according to the order of six major accounting elements—assets, liabilities, owners' equity, revenues, expenses and profits. Through the course, students can master the basic principle and method of financial accounting, conduct accounting correctly for the basic economic business of general enterprises, and improve the ability of analyzing and solving problems of economic business, so as to achieve graduation requirements of auditing majors. This course addresses liabilities, owners' equity, revenues, expenses and profits element of the six accounting elements.

《 会 》

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			Cost Accounting

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3	3.1 3.2 3.3 3.4 3.5 3.6		6
4	4.1 4.2 4.3		4
5	5.1 5.2		2
6	6.1 6.2 6.3		8
7	7.1 7.2 7.3 7.4		8
8	8.1 8.2		2
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This course is one of the compulsory courses for students majored in auditing computer auditing . On the basis of new "enterprise accounting standards", taking the production process of the typical manufacturing enterprise as an example, the basic theory and method of cost accounting are introduced comprehensively and systematically. Based on the product and period costs, the basic methods of product cost accounting are emphatically introduced, such as variety method, batch method and stepwise method. Auxiliary method of product costing such as classification method, quota method and standard cost method are also emphatically introduced. Through the cost report analysis of product and period costs and other relevant information, the

cost management of enterprises can be evaluated comprehensively and objectively. This course can make students understand the process of cost accounting, understand the basic theory of the cost accounting, and grasp the basic method and the auxiliary method of the cost accounting. The primary goal of teaching this course is to train students' ability of cost accounting and cost control in manufacturing enterprises.

《 库 及应 》

	0BL06919		3
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			Database S stem and Application

《 库 及应 实 》

	0BS06212		1
	16	/	10
			Database S stem and Application Practice

《 Python 序 》

	0BL06422		2
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Python

Python

Python

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Python

1	Python	1.1 1.2 Python 1.3	4
2		2.1 print input eval 2.2 2.3 2.4 2.5 2.6 Python 2.7 math/random/datetime	8
3		3.1 try.....except 3.2 3.3 re re	2

4	Numpy		2
5	Pandas		2
6		Matplotlib seaborn	2
7	jieba	jieba	3
8		pyodbc pymssql	3
9		KNN	6

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Python

Python

Python is a programming course which is offered after programming C. It is easy for students to understand basic theory and make use of Python to design program. The purpose of the course is to cultivate students' skills so that students can solve problems by Python. The curriculum contents mainly include Data Type, String and File Operation, List and Date Processing, function and Data Analytics etc. During teaching, teachers had better utilize cases in order to make students grasp relative knowledge. Meanwhile, the course will lay the foundation for the following big date courses. Furthermore, it will promote students to complete study tasks and meet graduate requirements.

《Python 序 实 》

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Python

Python

Python

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Python

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Python

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Python in Practice is an obligatory course for computer audit specialty, which is offered after Python programming.

Python is a programming course which is offered after programming C. It is easy for students to understand basic theory and make use of Python to design program. The purpose of the course is to cultivate students' skills so that students can solve problems by Python. The curriculum contents mainly include Data Type, String and File Operation, List and Date Processing, Function and Data Analytics etc. During teaching, teachers had better utilize cases in order to make students grasp relative knowledge. Meanwhile, the course will lay the foundation for the following big date courses. Furthermore, it will promote students to complete study tasks and meet graduate requirements.

《 学 》

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			Management Statistics

《 学 实 》

	0BS06120		1
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			Management statistics practice

《 会 实 习 》

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			Acco nting sim lation practice

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This course is a comprehensive professional training course for auditing computer audit majors. Based on a simulated manufacturing enterprise, this course mainly introduces how to open book system according to the business content, business characteristics and management requirements. At the beginning of data posting period, student will learn how to fill in and audit the original documents according to the simulated business, prepare and audit accounting vouchers, prepare accounts summary table, register journal, journal ledger and general ledger, calculate the product cost, the final account, the trial balance, handle reconciliation and final closing and prepare accounting statements. This accountant work cycle covers financial accounting, cost accounting, tax law and other economic operations. Materials used in this practice course are from real business practice, with all kinds of books, vouchers, financial statements, invoices, bills, vouchers of clearing. In accordance with the accounting work position and simulated situation, students practice accounting treatment as in the enterprise with a strong sense of reality, so as to improve students' ability of comprehensive processing of accounting technology, to cultivate students' comprehensive practical ability, and to form the system of accounting management thought.

《 府与 利 会 》

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**Accounting for The Government
and The Nonprofit Organizations**

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Students can master the basic methods of accounting in the financial, administrative, public institutions and non-profit organizations through this course. Students should be familiar with management and accounting of assets, liabilities, income, expenses and net assets of the financial, administrative and public institutions. The basic contents of this course include: firstly, students will learn the characteristics, composition system, basic theory and methods of the government and non-profit organizations accounting, grasp the difference between theory and enterprise accounting. Secondly, students are enabled to master budget management, the Treasury, the government procurement system in our country. Thirdly, students should master not only the total budget accounting of revenue, expenses, assets, liabilities and net assets, but also the preparation of the financial budget. Fourthly, students can master not only income, expenses, assets, liabilities, net assets of the administrative units accounting, but also the preparation of accounting statements. Fifthly, through the comparison with enterprise accounting, students can master not only income, expenses, assets, liabilities, net assets of the nonprofit organizations accounting, but also the NPO financial reports of accounting.

《WEB 原 及应 》

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11 Web

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Web

Web , HTTP
HTML

JavaScript

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Web

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5	JavaScript	JavaScript Javascript DOM	12
6	jQuery	Javascript jQuery jQuery jQuery	2

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	jQuery Web	2	2016.1
3.	jQuery Web	2	2015.12

Web	Web	Web	Web
Web	HTML	HTTP	JavaScript
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jQuery	Web	Web	Web

Through the study of this course, students can master the basic principles of Web and the related programming technologies of Web client. This course starts with the basic principles of the Web, and based on this, it will introduce some basic techniques, including the basic content and simple application of HTTP protocol, the development environment of Web application, the method of creating web page in HTML language, the m

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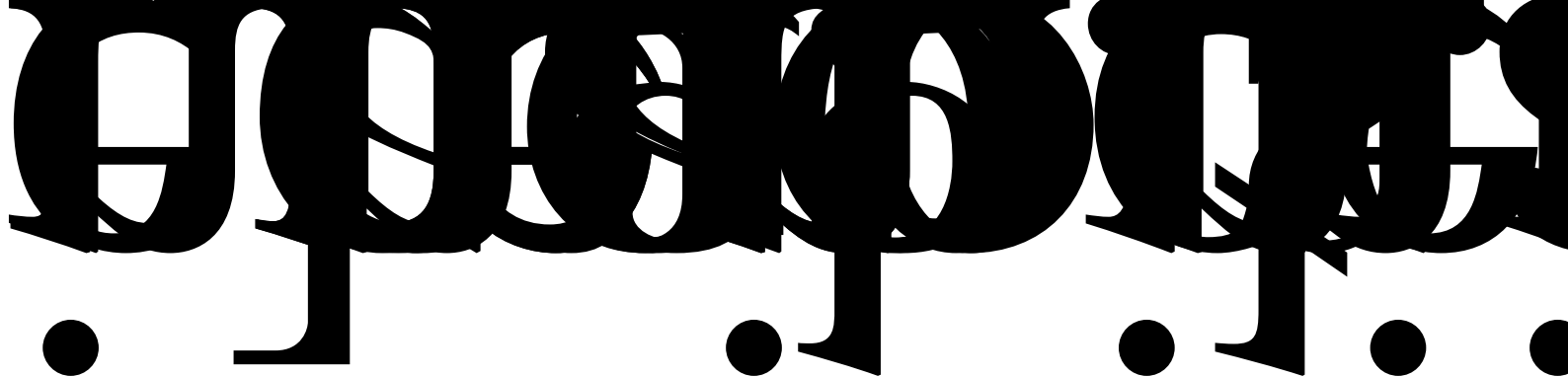
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"Financial management" is the compulsory course for students majored in computer audit and the elective course for students majored in management science. The course mainly studies regularity of enterprises' capital movement and its applications during the process of social reproduction. The basic courses are microeconomics, the principle of management, financial accounting. The content of course mainly includes enterprise financing management, investment management, working capital management, profit management and distribution. Through the study of this course, the students can reach two basic requirements. Firstly, students is to master the basic principles of financial management which are the basic financial management concepts, principles and features, etc.. Secondly, students are required to master the method of financial management prediction, decision making,

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This course is a professional course of the major of computer audit. It introduces the basic financial accounting theories and methods, and deals with the special economic business and the complex economic business accounting treatment. The topics cover debt restructuring, share-based payments, government subsidies, income tax, subsequent events after the balance sheet date, foreign currency translation, business combination, and consolidated financial statements.

《 审 学 原 》

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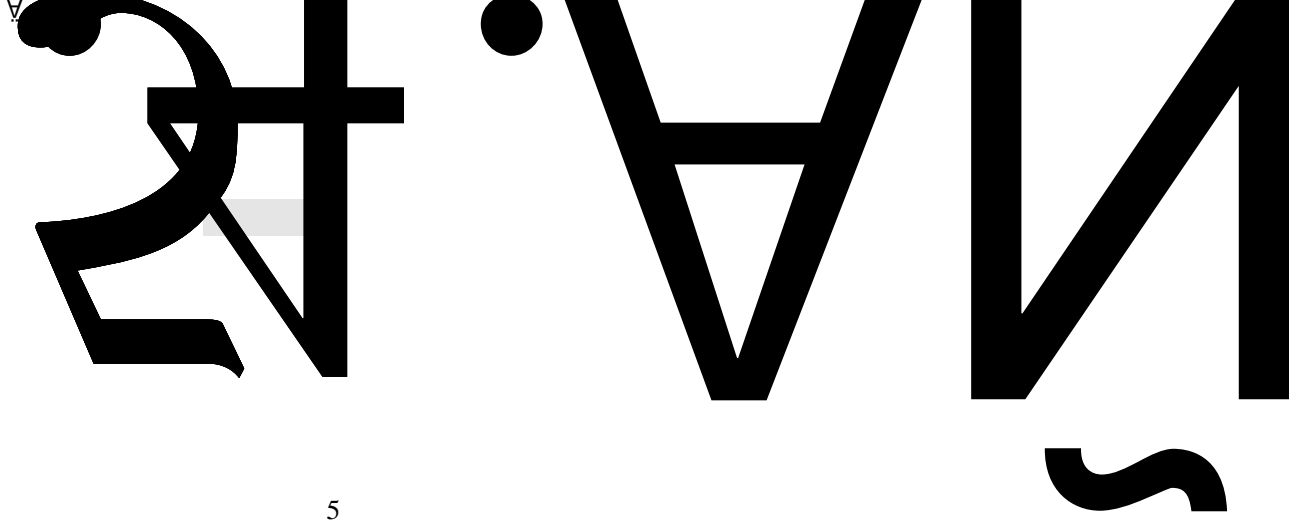
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This course introduces the theories and methods of modern auditing. The topics includes: (1) Certified Public Accountant (CPA) audit and its role in social economy, (2) the CPA audit procedures, (3) internal control and its testing, and (4) the recognition of financial statements and the substantive procedures. The topics cover auditing sampling, audit risk assessment, audit evidence, and audit working papers. Students will also learn the professional ethics, audit laws, regulations, rules, and other relevant norms in auditing.



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including basic principle of law, agency system and the limitation of action system; Two is civil law related system, including the property law and contract law system; Three is the commercial law related systems, including the partnership law, corporate law, securities law, enterprise bankruptcy legal system and payment and settlement legal system. Students can not only learn the evolution and the recent development of legal system in our country, but also enhance the legal consciousness and legal thinking. The basic concept, principle and systems of economic law should be mastered systematically. Students should be familiar with the current economic laws and regulations, understand the forefront of economic law, and exercise the basic skills to analyze and solve the economic disputes and problems.

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《 实 》

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《 会 信 息 》

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in the use of computer systems. Through the training of this course, students can master specific operating procedures of doing accounting work using accounting software, including system management, initial accounting, accounting treatment, terminal business, the compilation of the financial statements, payroll accounting, etc.

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Taking the modern enterprise management activities and its value performance as the object, the ultimate goal of “management accounting” is to strengthen the internal management and achieve the best economic benefits for enterprises. Through the deep processing of financial information, “managerial accounting” can solve problems of economic forecasting, decision-making, planning, controlling, responsibility evaluation and so on. This course combines theories of management and accounting together and use both modern mathematics and computer technology. Students should know how to store, process, analyze the accounting and other relevant information in order to assist management personnel at all levels to control enterprise economic activity. By making full use of management function of accounting, enterprise's adaptability ability and competition ability will enhance, operating management and economic efficiency will be improved. Through the course, students can master the basic theories and methods of management accounting, learn how to use accounting and other aspects of the business

information, analyze the development foreground of the economic subject, make decision scientifically, control and plan over the present and future. Finally, the objective of strengthening enterprise management, improving production management and the economic efficiency of enterprises will be achieved.

《 商务 》

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Business Intelligence is an elective course for students majored in computer audit. Business intelligence has strong performance in data management, data analysis and knowledge discovery, which has been highly valued by academia and industry. Business intelligence shows the latest development of information technology and reflects the application of computer methods in management decision making problems. With access to economic, accounting, financial data, students majored in computer audit will have more profound research and analysis using newly developed algorithm and applications of BI. This course covers the basic theory, core technology and applications of BI. The technology of business intelligence includes data warehouse, OLAP and data mining. General concept and content of business intelligence are introduced in the first part of the course. The second part of the course introduced the business intelligence technology, including data warehouse and OLAP technology, data preprocessing, characterization, classification, clustering, association rules mining. Business intelligence applications mainly include mobile commerce, knowledge management, Web mining, enterprise performance management, e-commerce applications. By studying the latest applications and development of cutting-edge technology, students can broaden the horizons and lay the foundation for future learning and practice.

《 Oracle/MySQL 库 》

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Oracle/MySQL

《会 信息化实 》

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			Acco nting Informationi ation Practice

ERP-U8 SAP

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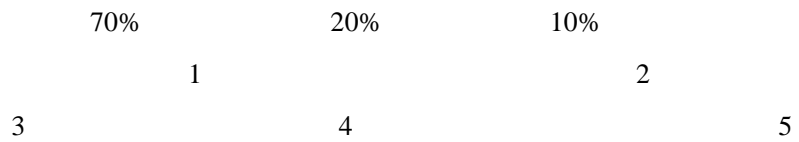
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ERP-U8 SAP

Accounting Informationization Practice is one of the Elective course of Auditing Computer Audit major. It is the specific application and practice of accounting information systems theory in practice and gives a systematic training of the use, design and development trends of accounting information systems. It requires students master the basic theory, developing ideas of accounting information systems and the basic applications of UF ERP-U8, SAP and other accounting information systems. Through the training of this course, students can master specific operating

procedures of doing accounting work using accounting software, including system management, initial accounting, accounting treatment, terminal business, the compilation of the financial statements, payroll accounting, fixed asset management and others. It also helps to clear internal control in the work of the accounting practices and master the development process and design ideas of the accounting information systems. It enables students with the ability to audit common accounting information systems and improve the abilities of problem analysis and problem-solving.

《信息 分 与 》

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UML

This course introduces the mainstream methodologies of information systems engineering, including planning, analysis, design, implementation, test and maintenance of information systems. The topics cover business modeling, requirements elicitation, system architecting, and database building. Students will learn object-oriented methods, UML modeling techniques, and the most commonly used development tools. They are also encouraged to carry out a small project with effective teamwork and communication, delivering good looking technical reports. The students will obtain better understanding of the principles, methods and of information systems development.

《 会 信 息 分 与 实 》

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This course is a core module of the major of computer audit. It focuses on an organization's vulnerability in the field of Information Technology (IT) from the perspective of risk-oriented audit. The topics include IT governance, the procurement, development, implementation, operation, to maintenance of information systems. Other significant issues like information assets protection, business continuity management, disaster recovery planning, in IT audit area will also be discussed in class.

Students will learn how to investigate and evaluate the risks and controls of IT infrastructure including data centers, Local Area Networks (LAN), hardware including routers, switches, firewalls, various kinds of servers, and mobile devices, and software including operating systems, databases, business applications, and so on.

《 审 实务与 例分 》

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8	8.1 8.2 8.3 8.4 8.5 8.6 8.7		6
9	9.1 9.2 9.3 9.4 9.5		6
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COSO

EDI VMI

This course is one of the professional compulsory courses of the auditing major. It focuses on application of auditing standards in auditing practice in China. Though the study of this course, students can understand the modern changes of audit environment better and have a better grasp of the audit risk control methods based on the COSO risk modeling system, audit methods and skills under the information technology environment, laying emphasis on mastering audit evidence, and fraud investigation and reliability judgment of audit evidence and using case analysis to introduce financial audit practice and emphasizing operation risk and environment analysis. It makes students master the required audit plan, risk control strategy and necessary audit procedures for important accounts testing under EDI, VMI, and ecommerce environment and clear audit reports, professional responsibilities, internal audit and other important contents. Though study of this course, it can help students understand the framework of audit judgment profoundly and understand the fundamental role of audit in a free market environment and the importance of audit in corporate governance, equipping students with the ability to use audit judgment and ethical framework to guide actions and the ability to use advanced audit techniques to do audit research.

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2005

2014

EXCEL

EXCEL

VBA

EXCEL

EXCEL

EXCEL

This course introduces the use of computer technology, especially Microsoft EXCEL, in Financial Management (FM) decision-making. The content includes data acquisition, preprocessing, retrieval, analysis, and representation. The topics cover data import/export, transformation, sorting, combining

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2010

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EXCEL

Excel

VBA

VBA

VBA

This course is mainly about how to build financial models in computer environment. The course consists of 5 experiments: (1) Microsoft EXCEL basics for accounting. (2) data import and its template design. (3) data analysis with Pivot Table, linear programming, and single-variable solution. (4) budget management and compilation between multiple sheets. (5) Microsoft's Visual Basic for Applications (VBA) and its application in financial statement analysis. Students will learn financial statement compilation, establish standardized report analysis template for other financial statements, and design a consolidated report preparation platform.

《 审 》

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6	6.1 Access 6.2 DBF 6.3 SQL Server 6.4 Oracle		Access DBF SQL Server Oracle 2
7	7.1 7.2 7.3		2
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This course is a core module of the major of computer audit. The topics include data acquisition, collection, cleaning, conversion, verification, and analysis in computer-aided audit. Students will learn the procedures of electronic data processing, the methods to deal with various data formats mainly text and relational database , and techniques to perform multi-dimensional analysis and mining analysis in an audit project. Equipped with these skills, students are encouraged to go further to discover clues, collect evidence, and finally form audit conclusions.

《内 审 》

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This course is one of the compulsory courses of auditing computer auditing , and it is a relatively comprehensive applied discipline. The course introduces nature and basic characteristics from time and space dimensions by taking a main shaft of "International internal auditing professional practice framework" and combining with China's "basic standards of internal audit" about the internal audit purpose, responsibility and scope definition. The course helps students master the internal audit's connotation, extension, procedures and methods, be familiar with main characteristics, key points and difficulties and application case of the enterprise internal financial audit, economic responsibility audit, fraud auditing, risk management audit and internal control audit. Through the internal audit and internal control information, students should accomplish effective evaluation, verification and supervision of audit units business activities, business processes and internal control. Students should learn to evaluate and supervise management accountability in the use of internal audit tool flexibly, improve enterprise management level, and promote the achievement of organizational objectives.

《 审 计 实 习 》

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			Audit Simulation Practice

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This course is a comprehensive professional practice course for students majored in computer audit. Students can apply the relevant knowledge of accounting and auditing to solve practical problems. Firstly, students are required to review preparatory courses and understand the content and data of practice provided by teachers. Then teachers will explain the common problems of practice during students' actual operation. Finally, teachers will check the experiments. The main contents of this course include audit preparation simulation including the preliminary business activities, risk identification and assessment, audit planning, personnel division, audit implementation simulation including testing and evaluation of internal control of the business cycle audit, audit finalization simulation including audit difference adjustment and trial balance,

audit report writing etc. . Students should summarize the practice experience and complete the practice report finally. Through the practice, students can master the basic theories, methods, and operations of audit. Students can also improve the ability to analyze and solve problems, so that they will lay a good foundation for the future study and participation in actual audit project.

《公司 与 》

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"Corporate Strategy and Risk Management" is a theoretical and practical professional elective course. This course is to enable students to master the basic theory and calculation methods of corporate strategy and risk management, grasp the main contents and methods of strategy and risk management, propose preliminary solutions to the problem, cultivate students' practical ability, strengthen occupation moral and legal consciousness. Through the new practice of China enterprise of strategic risk management, students are enabled to integrate the knowledge system into the enterprise strategy and risk management issues; combine different functional strategy such as the marketing management, investment management, human resources, production operation, research and development into enterprise overall strategy; highly generalize and summarize the enterprise's internal and external environment to enhance the long-term development and put forward the operable ideas; plan sustainable competitive advantage and core competitive ability systematically; recognize and cope with different kinds of risks in the process of business management.

《 产 估 》

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"Assets Evaluation" is a comprehensive discipline which integrates the thoughts and methods of assets evaluation with accounting. It is the behavior and process of analysis, evaluation and professional suggestions of asset value in accordance with the national laws, regulations and asset evaluation standards by professional institutions and personnel. The principles of assessment should be followed and the appropriate type of value should be selected in accordance with the relevant procedures.

As an elective courses for students majored in computer audit, "Assets Evaluation" mainly includes three aspects: one is the foundation of assets evaluation, including assets evaluation concept, evaluation purpose, evaluation value types, evaluation hypothesis and the evaluation principles; two is the practical knowledge, including not only the assessment of the machinery and equipment, intangible assets, long-term investment assets, current assets, the enterprise value etc., but also the evaluation procedure preparation and report writing; three is the legal knowledge, including domestic and international assets evaluation laws and regulations. Through this course,

the basic theory and evaluation methods are taught for students to get familiar with the basic content, operating procedures and work characteristics. Students will enhance the synthetic ability to use the knowledge to assess the value of assets.

《信息 安全基 》

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《 审 实务与 例分 实 》

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Accounting Informationization Practice is one of the Elective course of Auditing Computer Audit major. It is the specific application and practice of accounting information systems theory in practice and gives a systematic training of the use, design and development trends of accounting information systems. It requires students master the basic theory, developing ideas of accounting information systems and the basic applications of UF ERP-U8, SAP and other accounting information systems. Through the training of this course, students can master specific operating procedures of doing accounting work using accounting software, including system management, initial accounting, accounting treatment, terminal business, the compilation of the financial statements, payroll accounting, fixed asset management and others. It also helps to clear internal control in the work of the accounting practices and master the development process and design ideas of the accounting information systems. It enables students with the ability to audit common accounting information systems and improve the abilities of problem analysis and problem-solving.

《 审 实 》

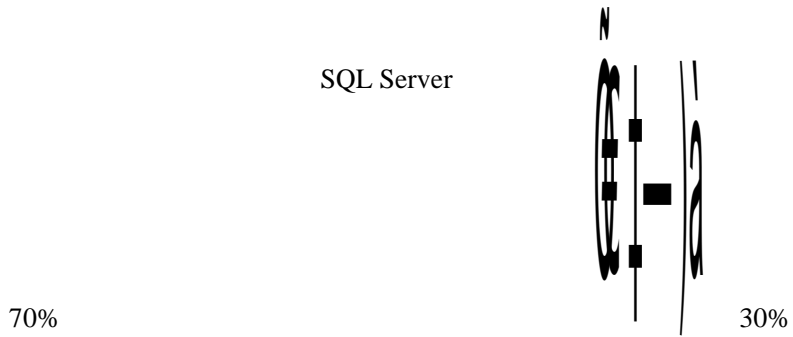
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			Comp ter Data A diting Practice

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data audit. These cases will sharpen students' skills of data collection, cleaning, conversion, verification, and analysis, and deepen their understanding of the procedure of computer data audit.

《 审 实 务 》

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This course introduces the theories, methods and techniques of electronic data audit. Students will learn how to accomplish data collection, conversion, validation, and analysis using audit software tools i.e. Yongyou audit system and Audit Command Language . The topics cover data collecting strategies, pre-audit survey, data source identification, and data analysis methods. Project management with these audit software will also be discussed.

《信息 审 》

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This course is a core module of the major of computer audit. It focuses on an organization's vulnerability in the field of Information Technology IT from the perspective of risk-oriented audit. The topics include IT governance, the procurement, development, implementation, operation, to maintenance of information systems. Other significant issues like information assets protection, business continuity management, disaster recovery planning, in IT audit area will also

be discussed in class.

Students will learn how to investigate and evaluate the risks and controls of IT infrastructure including data centers, Local Area Networks LAN , hardware including routers, switches, firewalls, various kinds of servers, and mobile devices, and software including operating systems, databases, business applications, and so on.

《 审 实 》

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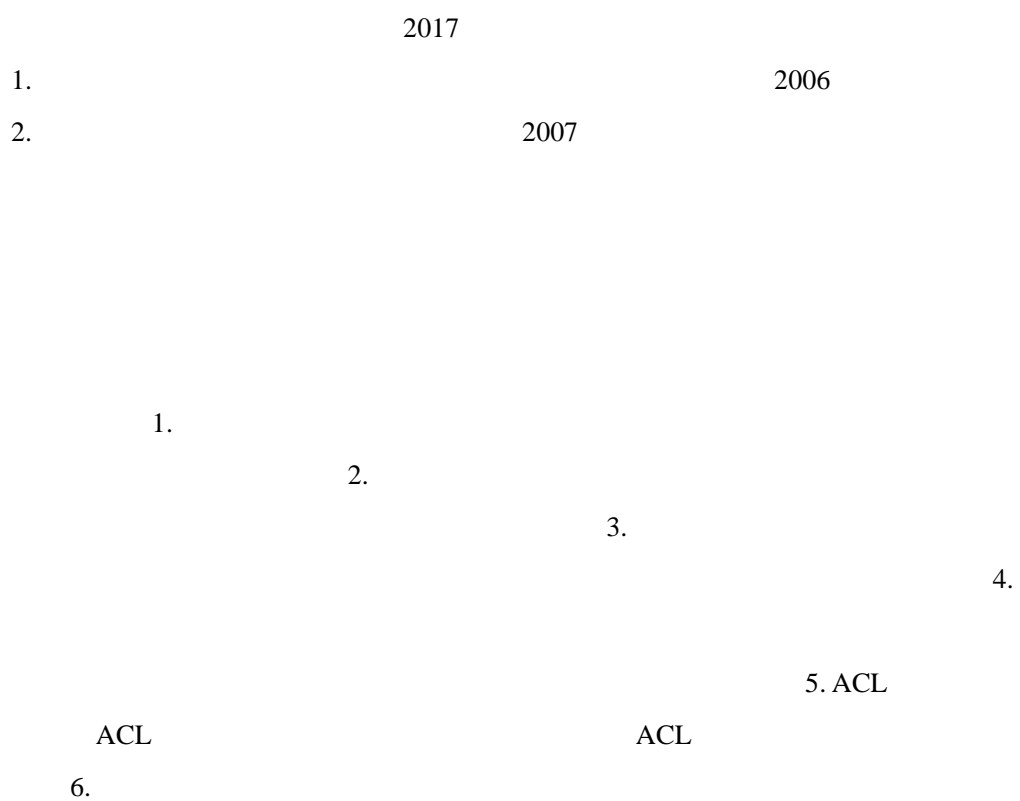
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This course intends to sharpen students' computer-aided audit skills in a way that integrate the knowledge of accounting, auditing, and financial management. The course consists of 6 experiments: (1) Audit environment preparation, including hardware, software, and the local area network. (2) Data acquisition and collection and its templates design. (3) Data conversion and its templates design. (4) Data verification and subjects control. (5) Audit Command Language (ACL) software and its application in auditing. (6) Yongyou audit system and its query analysis tools.

《企业 划(ERP)及实 》

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	ERP		Enterprise Resource Planning ERP and Practice

ERP

《信息安全 与 估》

	0RL06108		2
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			Information Security Management and Risk Assessment

《 审 合实习》

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			Comprehensive Practice in Computer Audit

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This course allows students to apply their knowledge of accounting, auditing, financial management, and computer-aided audit skills in a real-world project. Students will be divided into groups, and given different roles. They will be asked to 1 set up a Local Area Network LAN, 2 configure audit tools and software, 3 collect and convert target financial data, 4 conduct a preliminary analysis of these data, and check its compliance, 5 perform a

thorough query and analysis of the data, with respect to the problems that have been identified in the last step, and finally 6 deliver the audit papers and write up audit reports.

Students can choose various computer-aided audit tools to manipulate the electronic data. By accomplishing the project, students will hopefully get familiar with their analytical tools, grasp the process of an audit project, and learn some project management tips. Students are encouraged to co-operate the tasks in good teamwork and communication.

《 主创 创业实 》

	0RS06207		2
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			Independent Innovation and Entrepreneurship Practice

《 业 》

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			Graduation Thesis and Design

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学专业

《 学专业导 》

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			Introduction to the Major of Management Science

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This course is an introductory course, which introduces students to the major of Management Science. It is one of the major foundation courses. It helps students understand the cultivation direction of Management Science major, and the curriculum structure. The course clarifies the characteristic of Management Science major as quantitative analysis, and specifies data analysis and management decision as the cultivation direction. Furthermore, through ERP simulation experiment, students can learn modern enterprise operation and management, and set the stage for the study of the successive courses.

The theoretical part of the course, following the cultivating scheme, introduces students to the five main curriculum modules, public foundation courses, economics and management courses, information technology courses, operations research courses, and data analysis courses. The course acquaints students with the composition and contents of each module. The experiment part, through ERP simulation, makes students understand the operation and management of modern enterprises, forming intuitive mental images, and realize the future application fields of the major knowledge.

《 信 息 基 础 》

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《 学原 》

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			Management Principles

《 微 学 》

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			Microeconomics

Microeconomics is concerned with the decision made by individual economic units --- consumers, workers, investors, owners of resources, and business firms. It is also concerned with the interaction of consumers and firms to form markets and industries. This course introduces students to the basic concepts, theories and models of microeconomics, with which students can explain how economic units behave, and predict what behavior will occur in the future.

	Topics	Requirements	Hours
1	<p>Chapter 1 Preliminaries</p> <ol style="list-style-type: none"> 1. The themes of microeconomics. 2. What is a market? 3. Real versus nominal prices. 4. Why study microeconomics? 	<ol style="list-style-type: none"> 1. Understand the main concerns of microeconomics. 2. Understand the approaches of microeconomics, and the concept of model. 3. Understand the concepts of positive analysis and normative analysis. 4. Understand the concept of a market and market price. 5. Understand the concepts of real prices and nominal prices. 	2
2	<p>Chapter 2 The Basics of Supply and Demand</p> <ol style="list-style-type: none"> 1. Supply and Demand 2. The market mechanism 3. Changes in market equilibrium 4. Elasticities of supply and demand 5. Short-run versus long run elasticities 6. Understanding and predicting the effects of changing market conditions 7. Effects of government intervention --- price controls 	<ol style="list-style-type: none"> 1. Understand Supply-Demand analysis, the supply curve and the demand curve. 2. Be able to use the supply-demand model to find equilibrium, and analyze the changes in market equilibrium. 3. Understand and be able to calculate elasticities of supply and demand. 4. Understand short-run and long-run elasticities 5. Be able to predict the effects of changing market conditions 6. Understand the effects of government intervention --- Piece Controls. 	6
3	<p>Chapter 3 Consumer Behavior</p> <ol style="list-style-type: none"> 1. Consumer preferences 2. Budget constraints 3. Consumer choice 4. Revealed preference 5. Marginal utility and consumer choice 	<ol style="list-style-type: none"> 1. Understand consumer behavior in three distinct steps: consumer preferences, budget constraints, and consumer choices. . 2. Understand some basic assumptions about the consumer preferences. 3. Understand indifference maps 4. Understand the concept of utility. 5. Understand the budge constraints 6. Understand consumer choice to maximize consumer satisfaction 7. Understand the concept of revealed preference 	4

	Topics	Requirements	Hours
		8. Understand the relationship between marginal utility and consumer choices.	
4	Chapter 4 Individual and Market Demand 1. Individual demand 2. Income and substitution effects 3. Market demand 4. Consumer surplus 5. Network externalities	1. Understand how the demand curve of an individual consumer follows from the consumption choices that a person makes when faced with a budget constraints. 2. Understand income and substitution effects 3. Understand the concepts of market demand and how market demand curves can be derived as the sum of the individual demand curves of all consumers. 4. Understand the concepts of consumer surplus. 5. Know the concepts of network externalities	4
5	Chapter 5 Production 1. Firms and their production decisions. 2. Production with one variable input Labor . 3. Production with two variable inputs. 4. Returns to scale.	1. Know the approach to study the firm production decision. 2. Understand the concept of production function. 3. Understand the short run long run production function. 4. Be able to analyze production decisions with labor input 5. Be able to analyze production decisions with two variables inputs 6. Be able to analyze returns to scale.	4
6	Chapter 6 The cost of production 1. Measuring cost: which cost matter? 2. Cost in the short run. 3. Cost in the long run 4. Long-run versus short-run cost curves 5. Production with two outputs – economies of scope	1. Understand different definitions of cost. 2. Understand the determinants of short-run cost and the shapes of the cost curves. 3. Understand how a firm can choose its combination of inputs to minimize its cost of producing a given output. 4. Understand the relationship between long-run curves and short-run curves. 5. Understand the concepts of economies of scope.	6
7	Chapter 7 Profit Maximization and Competitive Supply 1. Perfectly competitive Markets. 2. Profit maximization 3. Marginal revenue, marginal cost, and profit maximization 4. Choosing output in the short run 5. The competitive firm's short-run supply curve	1. Understand the concept of perfectly competitive markets 2. Understand the assumption that firms have the objective of maximizing profit. 3. Understand the rule for choosing the profit-maximizing output for firms in all markets. 4. Understand how a competitive firm chooses its output in the short and long run. 5. Understand how to derive the firm's supply	6

	Topics	Requirements	Hours
	6. The short-run market supply curve 7. Choosing output in the long-run 8. The industry's long-run supply curve	curve, and how to obtain the industry supply curve. 6. Understand how firms decide whether to be in a market as all.	
8	Chapter 8 The Analysis of Competitive Markets 1. Evaluating the Gains and Losses from Government Policies. 2. The efficiency of a competitive market 3. Minimum prices 4. Price supports and production quotas 5. Import quotas and tariffs 6. Profit maximization	1. Understand how consumer and producer surplus can be used to study the welfare effects of a government policy. 2. Be able to use consumer and producer surplus to demonstrate the efficiency of a competitive market. 3. Be able to apply supply-demand analysis to a variety of problems, such as government interventions.	6
9	Chapter 9 Market Power: Monopoly and Monopsony 1. Monopoly 2. Monopoly power 3. Sources of monopoly power 4. The social costs of monopoly power 5. Monopsony 6. Monopsony power	1. Understand the concepts of monopoly and monopsony. 2. Understand the behavior of a monopolist. 3. Be able to explain how a monopolist can take advantage of its control over price. 4. Understand the cost on society caused by monopolists. 5. Understand the behavior of a monopsonist.	6
10	Chapter 10 Pricing with Market Power 1. Capturing consumer surplus 2. Price discrimination 3. Intertemporal price discrimination and peak-load pricing 4. The two-part tariff	1. Be able to explain how firms with market power set prices. 2. Understand the two-part tariff. 3. Know the use of advertising by firms with market power.	6
11	Chapter 11 Monopolistic Competition and Oligopoly 1. Monopolistic competition 2. Oligopoly 3. Price competition 4. Competition versus collusion	1. Understand the market structures other than pure monopoly that can give rise to monopoly power. 2. Understand the market structure of oligopoly.	6

The course of Microeconomics is a required core course for the students, who are majored in Management Science. It makes good preparations for the study of subsequent courses. To study

this course, students are required to have the basic knowledge of Advanced Mathematics.

Students, majored in Management Science, are required to study this course bilingually with American textbook. The test paper will be in English.

Students are required to do homework for each chapter. The average of all homework will be 30% of the final grade. The final exam is the closed-book test. The score of the final exam will be 70% of the final grade.

Primary Textbook: Robert S. Pindyck, Daniel L. Rubinfeld, *Microeconomics* – the seventh edition, Tsinghua University Press, 2015.

Conference Book: R. Glenn Hubbard, Anthony P. O'Brien, *Microeconomics, International Edition*. Pearson Education, 2012

Microeconomics is an important branch of modern economics, which focuses on economic behaviors of individual economic units, such as consumers, workers, firms and investors, as well as markets that those units comprise. It studies how those units make decisions and the factors that affect the decisions. Microeconomics contents cover a wide variety of topics. This course mainly includes: market equilibrium, consumer behavior, production, costs of production, competitive market, market power. Through this course, students should be able to understand basic concepts, theories, and analyzing methods of microeconomics, and be able to use graphs, tables and economic models to analyze and explain economic activities in the markets, both positively and normatively. This course is suitable to the students majored in Management Science.

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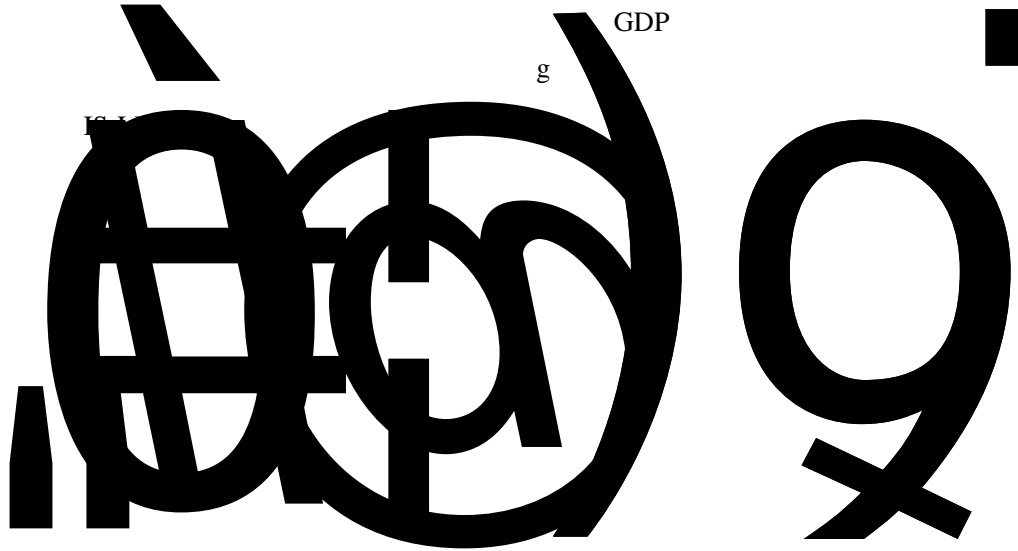
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Operations Research, a mathematical approach to do modeling and optimization, is an important foundation specialty course for management related majors. It introduces students to concepts, theories and computational techniques of some important Operations Research branches. The goals of the course are to teach students how to formulate models, analyze the models, obtain the right solutions to the models, and interpret the solutions for the practical problems.

	Topics	Requirements	Hours
1	Chapter 1 Overview of Operations Research	Be familiar with the ideas of Operations Research and know the contents of the course	2
2	Linear Programming and Simplex Method, including: 1. Linear programming model 2. Graphical method to solve the model 3. Simplex Method 4. Big M method and two phase method 5. Applications	1. Understand the concepts of linear programming models. 2. Be able to formulate linear programming models. 3. Be able to solve linear programming models graphically 4. Be able to use simplex method to solve linear programming models 5. Be able to use big M method and two phase method to solve nonstandard linear programming models. 6. Understand simplex method in matrix form and revised simplex method 7. Be able to interpret the solutions to the models for practical problems.	12
3	Duality Theory and Sensitivity Analysis 1. Dual model and primal model 2. Duality Theory 3. Economic interpretation of duality and shadow price 4. Dual simplex method 5. Sensitivity analysis	1. Understand dual model and relationship between primal model and dual model 2. Be able to formulate dual model 3. Understand theories of duality 4. Understand the economic meaning of duality and the concept of shadow price 5. Be able to use dual simplex method 6. Be able to conduct sensitivity analysis	12

	Topics	Requirements	Hours
	Transportation Problem		
	1. The transportation model and its characteristics		
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Students, majored in Management Science, need to study Operations Research bilingually with American textbook, and the test paper will be in English.

Students are required to do homework for each chapter. The average of all homework will be 30% of the final grade. The final exam is the closed-book test. The score of the final exam will be 70% of the final grade.

Primary Textbook: Frederick S. Hillier & Gerald J. Lieberman, Introduction to Operations Research, 9th edition, Tsinghua University Press, 2010.

Conference Books: Dimitris Bertsimas, Robert M. Freund, Data, Models, and Decisions: The Fundamentals of Management Science, South-Western College Publishing, 2007.

Operations Research is an important major foundation course. This course mainly studies how to use mathematical models to describe practical problems in the management, analyze and solve the models, find out the optimal solutions, interpret the practical meanings of the optimal mathematical solutions, and finally apply the results to the practical problems. It teaches students how to formulate models, analyze models and the properties of the optimal solutions, approaches to find out the optimal solutions, and how to explain practical meanings of the optimal solutions. This course introduces students to the main branches of *Operations Research I*, includes: linear programming, duality theory and sensitivity analysis, transportation problem, integer programming, network flow problems, and dynamic programming. Through this course, students will learn the basic concepts, basic theories, and basic methods of *Operations Research*, and will be able to use knowledge and methods of *Operations Research* to solve relevant problems in management.

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4	4.1 4.2 4.3		8
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II I

O e a i e ea ch is a professional basic course for students majored on Management Science. Based on it, we can study optimization problem of variety of systems applying

mathematical methods. This course make students be able to reasonably plan and arrange all kinds of resources including human resources and financial resources through mathematical analysis and operation. This course has a very good effect on the cultivation of the students of information management and information system, and it is very good for the students to improve their scientific management.

Through this course, students should understand the basic content of operational research and its position in the discipline of management science, master the basic theory, methods and knowledge to analyze, model and solve some typical problems in management. Then students will improve the knowledge system and get a solid theoretical foundation for the future development.

Based on Operational research I, *O e a i e e a c h II* is including goal programming, game theory, decision theory, network programming, queuing theory and inventory theory.

《会 学》

	0BL06903		3
	48	/	0 0
			Acco nting

《 库 及应 实 》

	0BS06212		1
	16	/	10
			Database S stem and Application Practice

《 学 实 》

	0BS06120		1
	16	/	16
			Management statistics practice

《 专 业 》

	0RL06902		2
	32	/	0 0
			Specialt English

Specialty English is an optional course, which aims to improve the students' ability to study and to do their research in English in business related fields. For the students, who are majored in Management Science, Auditing, and Electronic Business, the course will familiarize them with basic concepts and ideas of business. The course provides students with introduction

	Topics	Requirements	Hours
	7. Trade protectionism 8. The future of global trade: Global E-Commerce	protectionism. 6. Explain how e-commerce is affecting global trade.	
3	Chapter 3 Demonstrating Ethical Behavior and Social Responsibility 1. Ethics is more than legality 2. Managing businesses ethically and responsibly 3. Corporate social responsibility 4. International ethics and social responsibility	Students should be able to 1. Explain why legality is only the first step in behaving ethically. 2. Ask the three questions one should answer when faced with a potentially unethical action. 3. Describe management's role in setting ethical standards. 4. Distinguish between compliance-based and integrity-based ethics codes, and list the six steps in setting up a corporate ethics code. 5. Define corporate social responsibility.	4
4	Chapter 4 Choosing a Form of Business Ownership 1. Sole Forms of Business Ownership 2. Partnerships 3. Corporations 4. Corporate expansion 5. Special forms of ownership 6. Franchises 7. Cooperatives	Students should be able to 1. Compare the advantages and disadvantages of sole proprietorships. 2. Describe the differences between general and limited partners, and compare the advantages and disadvantages of partnerships. 3. Compare the advantages and disadvantages of corporations and summarize the differences between corporations, S corporations, and limited liability companies. 4. Define and give examples of three types of corporate mergers and explain the role of leveraged buyouts and taking a firm private.	4
5	Chapter 5 Management, Leadership, and Employee Empowerment 1. Managerial challenges 2. Functions of management 3. Planning 4. Organizing 5. Leading 6. Controlling	Students should be able to 1. Explain how the changes that are occurring in the business environment are affecting the management function. 2. Describe the four functions of management. 3. Relate the planning process and decision making to the accomplishment of company goals. 4. Describe the organizing function of management. 5. Explain the differences between leaders and managers, and describe the various leadership styles. 6. Summarize the five steps of the control function of management.	4
6	Chapter 6 Adapting Organizations to Today's Markets 1. Building an organization	Students should be able to 1. Explain the historical organizational theories of Fayol and Weber. 2. Explain the various issues involved in structuring	4

	Topics	Requirements	Hours
	<p>from the bottom up</p> <ol style="list-style-type: none"> 2. Issues involved in structuring organizations 3. Organization models 4. Managing the interactions among firms 5. Adapting to changes 	<p>organizations.</p> <ol style="list-style-type: none"> 3. Describe and differentiate the various organizational models. 4. Discuss the concepts involved in interfirm cooperation and coordination. 5. Explain how restructuring, organizational culture, and informal organizations can help businesses adapt to change. 	
7	<p>Chapter 7 Motivating Employees and building self-managed teams</p> <ol style="list-style-type: none"> 1. The importance of motivation 2. Motivation and Maslow's hierarchy of needs 3. Herzberg's motivating factors 4. Job enrichment 5. Mcgregor's theory X and Theory Y 6. Ouchi's Theory 7. Goal-setting theory and management by objectives 8. Expectancy theory 9. Reinforcement theory 10. Equity theory 11. Building teamwork through open communication 12. Motivation in the future 	<p>Students should be able to</p> <ol style="list-style-type: none"> 1. Explain Taylor's scientific management. 2. Describe the Hawthorne studies. 3. Identify the levels of Maslow's hierarchy of needs, and relate their importance to employee motivation. 4. Distinguish between the motivators and hygiene factors identified by Herzberg. 5. Explain how job enrichment affects employee motivation and performance. 6. Differentiate among Theory X, Theory Y, and Theory Z. 7. Explain goal- setting theory and how management by objectives exemplifies the theory. 8. Describe the key principles of expectancy, reinforcement, and equity theories. 9. Describe the key principles of expectancy, reinforcement, and equity theories. 10. Explain how open communication builds teamwork, and describe how managers are likely to motivate teams in the future. 	4
8	<p>Chapter 8 Marketing: Building Customer and Stakeholder Relationships</p> <ol style="list-style-type: none"> 1. What is marketing? 2. The marketing mix 3. Providing marketers with information 4. The consumer market 5. The business-to-business market 6. Updating the marketing concept 7. Establishing relationships with all stakeholders 	<p>Students should be able to</p> <ol style="list-style-type: none"> 1. Define marketing and explain how the marketing concept applies in both for-profit and nonprofit organizations. 2. List and describe the four Ps of marketing 3. Describe the marketing research process, and explain how marketers use environmental scanning to learn about the changing marketing environment. 4. Explain how marketers meet the needs of the consumer market through market segmentation, relationship marketing, and the study of consumer behavior. 5. List ways in which the business-to-business market differs from the consumer market. 6. Show how the marketing concept has been adapted 	4

	Description	Hours
	to fit today's modern markets. 7. Describe the latest marketing strategies, such as stakeholder marketing and customer relationship management.	

The course of Specialty English is an optional course. The textbook and the je

communicate in cross-culture background. The course provides students with introduction to plenty of basic business and management concepts, updated practical cases, and video teaching materials in English, so that students will broaden their understanding of business, and will make good foundation for their future international education and communication.

《多元 分 》

	0BL06507		2
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			M lti ariate Statistical Anal sis

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SPSS Excel SAS

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3	3.1 3.2 3.3 3.4 3.5 3.6 K- 3.7 3.8	K-	6
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5	5.1 5.2		4

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6	6.1 6.2 6.3 6.4		4
7	7.1 7.2 7.3		4

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2010.5

1. 3 2009.8
2. Johnson R.A. Wichern D.W.
3. 6 2008.1

Multivariate Statistical Analysis is an important tool for scientific research and has a wide range of applications in natural science, social science and other fields. Multivariate statistical research focuses on the statistical population of multiple variables, which can deal with complex data from multiple variables simultaneously without considering different measurement problems. It is a comprehensive analysis method handling with multiple variables. It can present linearly the extent to which multiple variables impact a simple variable or multiple variables, and represent multivariate relationships; it can eliminate the multicollinearity of multiple variables, solve problems in high-dimensional space to low dimensional space, eliminate overlapping information, and simplify variables' relationship. And at the same time it tries its best to preserve original information; it can mine the nature attributing things change which is deep and cannot be observed according to the appearance of things; it can also identify and classify things through certain complex properties.

《 产 作 》

	0BH06501		2.5
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			Production and Operations Management

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4	4.1 4.2 4.3 4.4		4
5	5.1 5.2 5.3		2
6	6.1 6.2		3

	6.3 6.4 6.5 6.6		
7	7.1 7.2 7.3 7.4		4
8	8.1 8.2 8.3 8.4 8.5		4
9	9.1 MRP 9.2 MRP 9.3 9.4	MRP MRP ERP	4
10	10.1 10.2 10.3 10.4		3
11	11.1 11.2 11.3		3
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analyze and practice objectives with production and operations management, so as to reduce
 the waste and lower costs in production processes, improve the response to
 market requirements and the levels of service, and finally enhance competitiveness in the market.

《 与 》

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			Forecast Method And Technolog

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6	6.1 6.2 6.3		4
7	7.1 7.2 7.3 7.4		4
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10%

50%

2015 8

1. 2009.3
2. [] , 2014.4
3. []Michael Milton , , 2012.12

“ ”

F eca M e h d a d T e c h l g is an important specialty foundation course in the curriculum for the major of management science. The key to the management is decision making, and the premise of decision making is forecast. This course mainly introduces qualitative and quantitative forecasting methods. The quantitative forecasting methods include: time series method, linear regression model, nonlinear regression model, projective method, trend

extrapolation method, and Markov forecasting method. This course will lay students good foundation for solving relevant practical problems, or doing scientific researches. Through this course students will master common methods of forecasting, be familiar with corresponding software and result interpretation, and preliminarily possess the ability to do forecast with computers.

《 务 》

	0BL06419		2.5
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			Financial Management

《 市场 》

	0BL06511		2.5
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			Marketing

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Marketing is an applied science based on economic science, behavioral science and modern management. This course includes the general principles, the basic principles and methods of marketing. Through this course, students are required to understand the marketing theory and grasp marketing strategy, organization, planning and control in Chinese marketing environment and practice system. Then they can understand social investigation, the selection of target market, marketing strategy, competitive strategy and international marketing strategy.

The purpose of this course is to make students master the basic theory, basic knowledge and basic method of modern marketing through classroom teaching and case analysis, to improve students' ability of purchase behavior analysis, ability of the analysis, judgment and decision-making of business activities, ability of preliminary design and planning of marketing problems. At last, they can consult and diagnose business marketing problem after graduation.

《多元 分 实 》

	0BS06508		1
	16	/	16
			Application of M lti ariate Statistics Anal sis

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SPSS Excel SAS

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2010.5

1. 3 2009.8
2. Johnson R.A. Wichern D.W.
6 2008.1
- 3.

Application of Multivariate Statistical Analysis is an important practice course for *Management Science* major. And it is also an independent practice course based on the course *Multivariate Statistical Analysis*, which can help students have a deep understanding of multivariate statistical analysis methods, acquire the ability of analyzing management decision-making problems from the point of statistics, grasp expertly popular statistical softwares.

It is an important tool for scientific research and has a wide range of applications in natural science, social science and other fields. It can deal with complex data from multiple variables simultaneously and present linearly the extent to which multiple variables impact a simple variable or multiple variables, and represent multivariate relationships; it can eliminate the multicollinearity of multiple variables, solve problems in high-dimensional space to low dimensional space, eliminate overlapping information, and simplify variables' relationship; it can mine the nature attributing things change which is deep and cannot be observed according to the appearance of things; it can also identify and classify things through certain complex properties.

《 实 》

	0BS06213		1
	1	/	0 16
			E-Marketing Practice

《 会 》

	ORL06407		2.5
	40	/	0
			Managerial Accounting

《 》

	ORL06421		2.5
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			Economic La

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5	5.1 5.2 5.3 5.4		3
6	6.1 6.2 6.3 6.4 6.5 6.6		5
7	7.1 7.2 7.3 7.4 7.5 7.6		4
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Economic law is the floorboard of economic relationship legal norms of market economic activity intervention, management and regulation. Economic law is an elective course for students majored in management science. Based on China's newly enacted laws, regulations and relevant

legal system, the course includes three aspects: one is an introduction to the law, including basic principle of law, agency system and the limitation of action system; Two is civil law related system, including the property law and contract law system; Three is the commercial law related systems, including the partnership law, corporate law, securities law, enterprise bankruptcy legal system and payment and settlement legal system. Students can not only learn the evolution and the recent development of legal system in our country, but also enhance the legal consciousness and legal thinking. The basic concept, principle and systems of economic law should be mastered systematically. Students should be familiar with the current economic laws and regulations, understand the forefront of economic law, and exercise the basic skills to analyze and solve the economic disputes and problems.

《 优化 合实 》

	ORS06501		2
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			Comprehensive Practice of Management Optimization

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3		4	2.4	PC EXCEL	
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5	EXCEL	4	4.1 4.2 0-1 4.3	EXCEL EXCEL EXCEL PC EXCEL	
6	EXCEL	4	4.4 4.5	EXCEL	

			5.1		
			5.2	EXCEL	
			PC	EXCEL	
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2. 2013

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EXCEL

Through studying the course *Case Practice of Management Organization*, students can further consolidate the knowledge and methods of *Operational Research*, apply operations research knowledge and models to practical problems in enterprise management, and master the

method and process using spreadsheet to implement computer management optimization. The course is a comprehensive one involved in management and computer, emphasizing comprehensiveness and practicability. According to actual cases, various kinds of operational research models and real enterprise management problems are organically combined, operations research problems are extracted abstractly, and mathematical model are established correspondingly. Students grasp solving management optimization problem by using computer tools, explain analysis results of *Operational Research*, and achieve the goal of 'learning for the practical usage'. This course focuses on how to formulate models and solves the models of linear programming, transportation problem, integer programming, network optimization, with EXCEL software, and explains the applications of management optimization methods through practical cases.

《信息 分 与 》

	0BL06906		2.5
	40	/	0 0
			Information Systems Analysis and Design

《 与供应 》

	0BH06209		3
	48	/	0 8
			Logistics and Supply Chain Management

《 工 》

	0BL06505		2
	32	/	0 0
			S stem Engineering

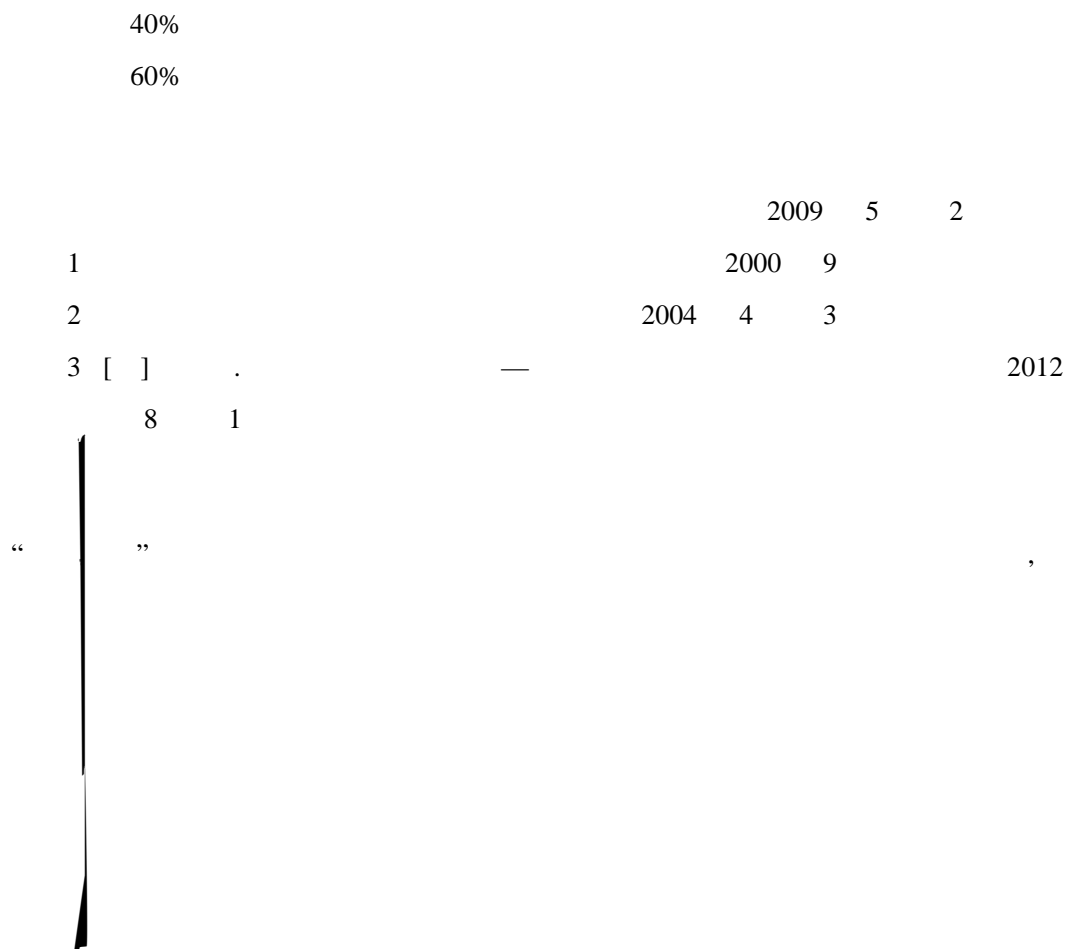
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System Engineering is an important specialty foundation course in the curriculum for management science major. It contains the ideological method, work procedures and analytical tools applied to various types of complex systems, especially the social economic and management system. As management personnel of an enterprise or an information system, one must establish systematic viewpoints, learn to analyze and handle problems with system approaches to reach goals of the system. This course will introduce basic concepts of system and system engineering, system engineering methodology, main procedures and contents of system analysis, and essential models and simulation methods of system analysis. This course will lay a good foundation for students' solving practical problems or doing relevant scientific research. Through this course, students will preliminarily form the perspective of system, and be able to analyze practical problems with methods of system analysis, and propose scientific solutions.

《商务 及应用》

0BH06509

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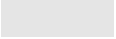
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8

**Method and Application of
Business Intelligence**



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1. Turban E.

2012.2

2. Mike Biere

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3. Jiawei Han Micheline Kamber

2

2008.12

4. Pang-Ning Tan Michael Steinbach Vipin Kumar, Introduction to Data Mining

2010.9

Method and Application of Business Intelligence is a compulsory course for management science major. Business intelligence has strong performance in data management, data analysis and knowledge discovery, which has been highly valued by academia and industry. Business intelligence shows the latest development of information technology and reflects the application of computer methods in management decision making problems. This course covers the basic theory, core technology and applications of BI. The technology of business intelligence includes data warehouse, OLAP and data mining. Business intelligence applications mainly include mobile commerce, knowledge management, Web mining, enterprise performance management, e-commerce applications. By studying the latest applications and development of cutting-edge technology, students can broaden the horizons and lay the foundation for future learning and practice.

《企业

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8	8.1 8.2 8.3		2
9	9.1 9.2 9.3		2
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ERP

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80%		
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2.	2015.2	
3.	2013.12	

The Simulation System on Business Management is a professional course, which is set up for the senior students of the Information Management School. It is a comprehensive practicability course. The course provides an introduction which includes the enterprise system, the characteristics of management, enterprise's strategic management, marketing management and target market decision, marketing research and strategy, productive processes management, production system design and operation management, quality management, enterprise technology system management, financial management and decision, human resource management, etc. The students would understand the concepts such as management, cost, quality, marketing and profit of the enterprise by studying this course.

Through this course, students will be familiar with the basic principles and methods of enterprise management, grasp the modern enterprise management skills and be able to use the relevant principles, methods and skills to solve practical problems and carry out business analysis

and decision-making. It can cultivate students with comprehensive management skills and qualities about enterprise management, and build the foundation for their future work.

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			Management Comm nication

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6	6.1 6.2 6.3		2
7	7.1 7.2 7.3 7.4		4
8	8.1 8.2 8.3		2
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9.2

9.3

Management Communication is a developing subject, also a strong application subject, mainly about business management communication forms, communication theory and skills. It is an important optional course for the major of management science. In the current knowledge society, where the trend of global competition and international cooperation is increasingly growing, the course of *Management Communication* for management science major students becomes obviously urgent and necessary. This course introduces students to a variety of communication modalities, communication theories and skills, which are applicable in the enterprise management. The contents include the concepts, means and barriers of communication; the role, contents, strategies and principles of management communication and interpersonal communication; effective listening and barriers to listening; taboos and skills of oral communications and speeches. Strategies for written communication and business correspondence; the role of non-verbal communication; body hint and spatial hint; vertical communication, horizontal communication, lateral communication, and horizontal communication in organizations; team communication and communication in groups; organization, record, roles and seating arrangement in conference communication; personal interview and employment interview; etc. The main objectives of this course are to provide students with fundamental knowledge and skills of management communication, and to lay good professional and theoretical foundation for students' future management communication jobs in enterprises and organizations.

《信息 分 与 实 》

	0BS06512		1
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			Information Systems Analysis and Design

CASE

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1. 2013 8 4
2. Dennis Systems Analysis and Design 5 John Wiley & Sons
2012

This course is a supporting module for the course Information Systems Analysis and Design. Students will analyze and design an accounting information system, using the Object-Oriented OO approach and the Unified Modeling Language UML . Students will obtain a better understanding of systematic methodologies, sharpen UML modeling skills to build business models and information models, master object-oriented approach and apply it in systems development.

《 与供应 实习 》

	0BS06909		2
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			Logistics and S ppl Chain Management Practice

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The Logistics and Supply Chain Management Practice is a comprehensive and practical teaching process arranged for the senior students of the Information Management School. It is an independent practice link with the course of logistics and supply chain management. This practice teaching includes the following four modules: modeling and simulation of logistics system, decision-making simulation of logistics and supply chain management, the application and design of logistics and supply chain information system, and the

《 商务 与应 实 》

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	16	/	16
			Practice of B siness Intelligence Method

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OLAP

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Brian Larson

2011.9

1. SPSS Modeler

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2. IBM SPSS

2013.2

"Practice of Business Intelligence Method" is the practical courses of compulsory course "Method and Application of Business Intelligence" for students majored in management science. Effective data collection, analysis, and visualization technology are introduced in Business intelligence, which can improve the quality of business decisions. Business intelligence shows the latest development of information technology and reflects the application of computer methods in management decision making problems. It has important significance to students majored in management science. Through the introduction and practice of commonly used business intelligence and data mining software, this course is mainly to consolidate students' understanding of theory course. Business data integration and display, multi-dimensional data modeling, data mining will be practiced in this course. Student will have a deeper understanding of course and improve synthetic analysis and mining skills. According to the personal interest and future internship, students can choose different business intelligence software for self-study and research.

《 企业 实 》

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			Practice of Simulation System on Business Management

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3	2	4			
4	1	4			
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6		4			



system management, financial management, decision, human resource management, etc. The students would understand the concepts such as management, cost, quality, marketing and production of the enterprise by studying this course.

Through this course, students will be familiar with the basic principles and methods of enterprise management, grasp the modern enterprise management skills and be able to use the relevant principles, methods and skills to solve practical problems and carry out business analysis and decision-making. It can cultivate students with comprehensive

Hadoop

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DNS

DNS

DNS

DNS

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In the era of big data, how to cope with the information security incidents should according to the characteristic of big data, and how to analyze these incidents should depend on artificial intelligence and machine learning method and technology. One of the important application of data analysis methods in the area of information security is mining from the interdependent and different kinds of data, then predicting the probability of future risk by building the scientific models. This course is a professional elective course established for students of management science major, which can cultivate students the ability of solving information security problems by comprehensively applying data analysis methods and information security technique, then promote the realization of training objective of management science major. It is aimed to broaden the students' knowledge, improve their quality, train the ability of solving the problem using the machine learning theory and methods, and lay the foundation on training high quality applied and innovative talent.

The content of this course include: master the theory and methods of discriminative models and generative models; design machine learning model aiming at fishing email through Hadoop distributed data processing framework, then implement online fishing email detecting system; design machine learning model, then implement analyzing and detecting system of DNS attack in response to attack against DNS system such as DNS cache pollution, DNS spoofing, DNS hijacking, denial of service attack and distributed denial of service attack.

《信息 学》

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			Information Economics

《互 》

	0RL06910		2
	32	/	0 0
			Internet Finance

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5	5.1 5.2 5.3		4
6	6.1 6.2 6.3 6.4		4
7	7.1 7.2 7.3 7.4 7.5 7.6		2
8	8.1 8.2 8.3		4

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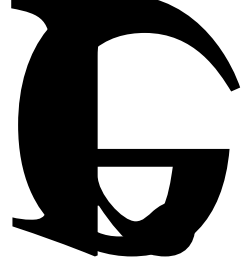
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"Internet Finance" is a professional and basic course for e-commerce. This course help students to master the basic theory and content of internet finance systematically, to grasp the products, functions and business models of internet finance, to understand the history ,current situation of internet finance and the internal and external impacts added to finance and economy. This course also help students to analyze the phenomena and problems in real-life by internet finance theory and knowledge, to plan and design internet financial products by information technology



Through this course, students will understand the development history of internet finance, grasp the theoretical research

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Stata

Stata



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Applied Econometrics is based on economics theory. This course is a methodology course which applied econometric methods and models to economic and management issues. This course focuses on the formulation and estimation of econometrics model and statistical analysis with software Stata. Topics include simple and multiple regression under classic assumption and specific techniques to deal with Multicollinearity, heteroscedasticity and series correlation etc. Followed by topics of model specification, binary choice data, simultaneous equations and time series are also discussed. This course will provide principles and techniques of econometrics analysis. The purpose of this course is to give students the insight into how to apply econometric methods and models to relevant topics in economics and management working with data. After completing the course the student should be able to do basic econometric analysis, apply data to analysis specific economic issues, make relevant conclusion based upon these, and perform statistical programming with Stata.

《 大 分 基 》

	OBL06512		2
	32	/	
			Fo ndations of Big Data Anal sis

	1.4 1.5		
2	2.1 2.2 Hadoop 2.3 Spark 2.4 Hadoop Spark	Hadoop Spark	6
3	Hadoop 3.1 3.2 HDFS 3.3 HDFS		4
4	SparkSQL 4.1 4.2 4.3 4.4	Spark SparkSQL	4
5	NoSQL 5.1 NoSQL 5.2 NoSQL 5.3 NoSQL 5.4 NoSQL	NoSQL	2
6	6.1 6.2 6.3		2
7	7.1 7.2 7.3 7.4 Storm		2
8			4
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10	10.1 10.2 10.3 10.4	Excel 2016 Echarts	2

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The purpose of this course is to make students learn basic knowledge on big data, and use big analyze data by data technology. And it is a subsequent curriculum of data analysis courses. This course would systematically introduce and summarize big data theory, technology and application scenario, which would help students with developing a deep understanding of big data knowledge system and its application fields, and establishing the foundation of big data knowledge and abilities for the students.

Through cases students can use big data technology to analyze complex data. According to the amount of data to be handled with, students can apply comprehensively IT knowledge and application of database technology, combining with large data processing, and choose the most appropriate solution and large data processing framework to obtain valid conclusions through literature research and analysis.

This course requires that students can use big data analysis tools to complete a whole project analysis scheme and meet its actual requirements according to the actual application, Basic goals for Foundations of Big Data Technology course:

1		ERP ERP	2
2	ERP 1.1 ERP 1.2 ERP 1.3 ERP	ERP ERP	4
3	ERP 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8	ERP	4
4	ERP 3.1 3.2 3.3	ERP	8
5	ERP 4.1 ERP 4.2 4.3 4.4 4.5 4.6	ERP	4
6	ERP 5.1 ERP 5.2 ERP	ERP	2
7	ERP 6.1 ERP 6.2 ERP 6.3 ERP 6.4 ERP 6.5 ERP	ERP	4
8	BPR 7.1 7.2 7.3		2

ERP

ERP

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E e i e R e c e l a i g ERP is one of compulsory specialized courses for students majoring in *Ma a g e e S c i e c e*. The concepts and methods of Enterprise Resources planning ERP are widely used in developed countries and bring significant economic benefits. Companies in China are building up their enterprise management information systems based on ERP applications. This course includes ERP base concept, methodology, database, principle, function, business process reengineering and project implementation and management. It focuses on an in-depth study on both theory and practice. Students are required to learn ERP concepts & operation skills based on ERP theory. Students will learn ERP principle, processing logic and implementation method. Students will also learn ERP application in company and learn necessary operation skills, thus understand enterprise operation rules and processes before they go to work. Students' management and decision making ability under informational environment will be improved to meet the needs of modern enterprise informatization.



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			Risk Management

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4	5.1 5.2 5.3 5.4		4
5	6.1 6.2 6.3		4

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aims at acquainting students with basic concepts, principles and tools of risk management. It helps students master technologies of risk management and get familiar with practical operations. It works as a guiding principle for students in their future jobs concerning risk management. Students are supposed to grow as qualified people with risk management ability.

This course, based on general principles of risk management, explains processes, theories, and tools. By combining practical cases, it focuses on improving students' theoretical analyzing ability and practical ability. The contents of the course include risk concepts, principles of risk management, risk analysis methods, tools of risk management, credit risk, market risk, operation risk, liquidity risk, total risk management. By attending this course, students will understand risk management concepts and basic principles, master risk management methods and skills, have the ability to analyze and solve practical problems with risk management methods independently and write description reports about risk assessment and risk management.

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Data Visualization is a compulsory course for management science. The first step for data to be effectively used is to graphically display data, and objectives and methods of data visualization in different situations. The aim of the practical course is to help to understand the basic theory, common method and tools of data visualization.

Data visualization software operation will be carried out based on practical case to help students understand data visualization method and basic technology, further to train the ability of analyzing and solving problems in practical data visualization. After the practical course, students are expected to own the knowledge and ability of utilizing data visualization tools, analyzing and interpreting and displaying data, and to have innovation mindset.

《企业 划(ERP)实习》

	0BS06910		2
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	ERP		Enterprise Resource Planning ERP Practice
	ERP		

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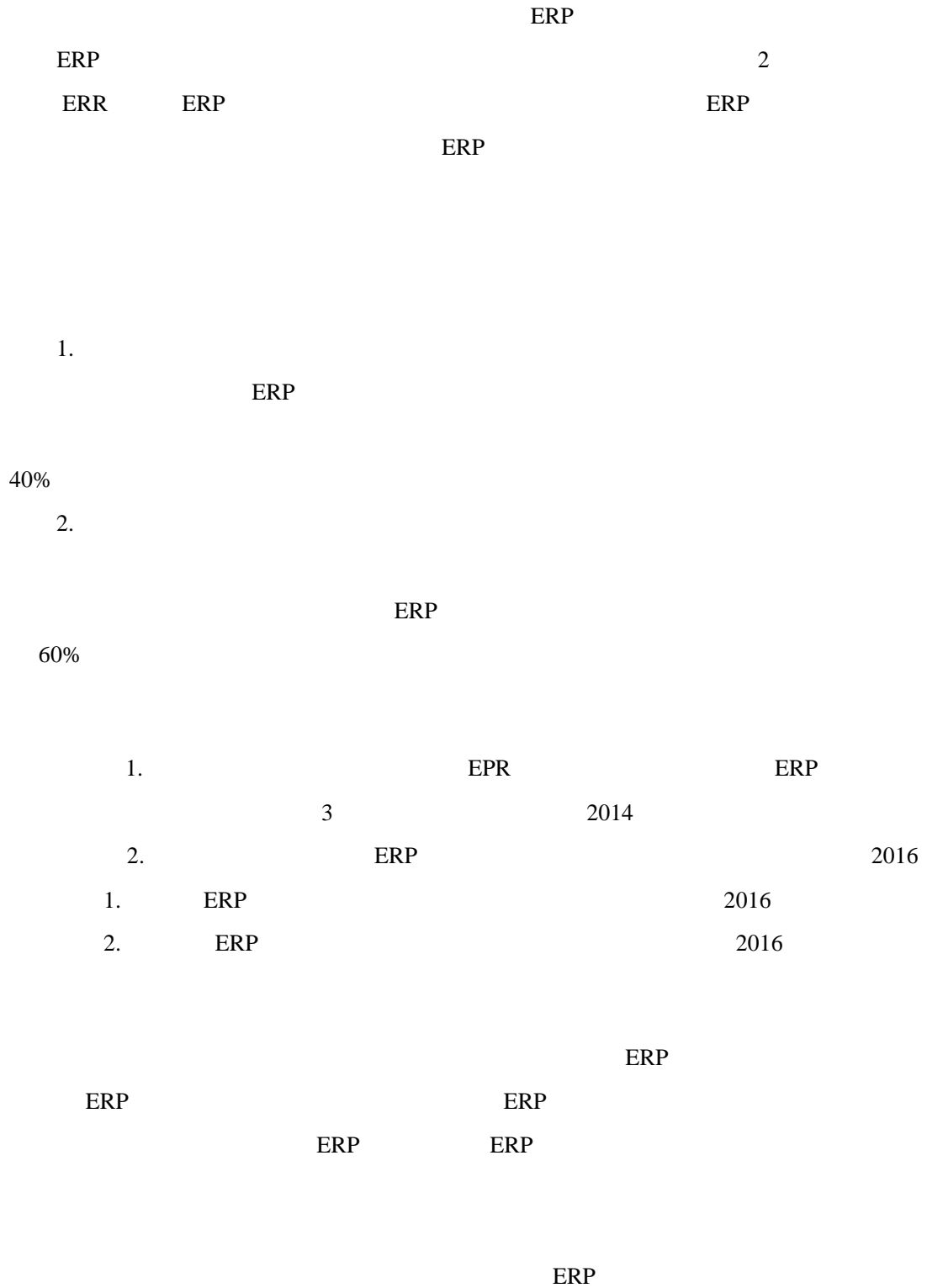
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Enterprise Resource Planning Practice is an independent practice course supplementary to *Enterprise Resource Planning*. Students should have learned basic knowledge of ERP concepts, methodology, functions and should be familiar with ERP software processes and operation skills before taking this course. The course consists of two parts. One is ERP sandbox operation, and the other is ERP manufacturing process operation. The first part is a kind of experiential practice simulating enterprise operation conditions. Through role-playing and job experience, students can experience the whole process of enterprise, including a series of activities such as strategy, analysis, market, production, marketing and financial settlement and so on. The practice process can help students consolidate and digest various types of management knowledge, acquire a deep understanding of ERP management thought, and improve their management decision-making abilities. The main contents of the second part include setting up: BOM (bill of material), customer order, master production schedule, material requirement planning, purchasing management, outsourcing management, production management, sales outbound, bill processing, and end of month closing. This course aims to strengthen students' operation skill of ERP software, bring them a systematical understanding of ERP supply chain management and make them familiar with enterprise production management.

《电子商务法律》

	0RL06202		2
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			Law of Electronic Commerce

《CDA 分 实 》

	0RS06202		2
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	CDA		CDA Data Analysis Training

CDA

《 学专业 合实习 》

	0RS06502		2
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			Comprehensive Practice of Management Science

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The *Capstone Practice of Management Science* module, is an important component of the *Management Science* major. Students will put into practice the basic skills and theories that they have acquired, through attending the various specialized basic and advanced courses of the *Management Science* major. On the one hand, students will gain an understanding of how to apply quantitative analytical methods within the world of business, and also how to use quantitative analysis methods when solving practical problems within business management. Students are required to choose a method in order to analyze both specific data collection and quantitative method application processes, as well as the effects of this application. On the other hand, students should understand the application of information technology in business enterprise, including information systems, and network and advanced management software applications. Students should also analyze the specific content of certain information technology applications, and

《 主创 创业实 》

	ORS06207		2
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			Independent Innovation and Entrepreneurship Practice

《 业 》

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			Graduation Thesis and Design

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8

Management Science Graduation Design and Thesis is the last phase in the cultivation plan for the Management Science major. It requires students apply the professional knowledge to the practical problem, fostering the student ability to use knowledge, analyze and solve practical problem, and at the same time, deepening student's understanding of the knowledge. The characteristic of Management Science is a quantitative analysis based major, solving practical problems, and providing scientific basis for decision makers. Therefore Graduation Design and Thesis for Management Science major students requests students use quantitative analysis methods, especially data analysis theories and approaches, with the assistant of information technology and software used in the industry, analyze practical problems, and draw conclusions. Through this phase, students will form abilities gradually, which will be a good foundation for their future development.

电子商务专业互 商务 向(双培 划)

《 电子商务安全 》

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			Electronic Commerce Sec rit

《 电子商务安全实 》

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			Practice of Electronic Commerce Sec rit practice

《 CDA 分 实 》

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	CDA		CDA Data Anal sis Training

CDA

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其他专业 学大

工业工 专业

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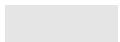
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会 学 专 业

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人力 专业

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