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	19	20	20	20	20	20	20	18	157
	31.5	22.5	25	18.5	16.5	18	12	16	160 10
	35	23	29	20	14	17	10	0	22

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		A311001	Ideology and Morality and Rule of Law		3	48	42	6	1	
		A311002	History of the Communist Party of China		2	32	28	4	1	
		A311003	Conspectus of Chinese Modern History		3	48	42	6	2	
		A311004	Basic Principles of Marxism		3	48	42	6	3	
		A311005			3	48	42	6	3	

	A921004	Labor Education and Practice		1	32	8	24	2 3 4		
	A381001	Innovation and Entrepreneurship Education		2	32	32	0	3/4		
	A171001	Campus Mental Health		2	32	32	0	1		
	A801001	Safety Education for College Students		2	32	32	0	1		
42 6				42	810	718	92			
		2				10 2				
10										
	A051006	D( ) Advanced Mathematics D 1		3.5	56	56	0	1		
	A051007	D( ) Advanced Mathematics D 2		4	64	64	0	2		
	A051008	Linear Algebra		2	32	32	0	2		
	A051009	Probability and Statistics		2	32	32	0	3		
	A021119	Introduction to Information Technology		2	32	16	16	1		
	A021029	C Fundamentals of the Programming Language (C Language)		3	48	24	24	1		
	A021033			4	64	38	26	2		

		Fundamentals of Data Structure and Algorithms							
	A021031	Fundamentals of Computer Networks		3	48	40	8	3	
	A021030	Principles of Operating Systems		3	48	36	12	4	
	A021032	Fundamentals of Computer Systems		3.5	56	48	8	4	
	A021050	Introduction to Big Data Technology*	*	2	32	32	0	1	
	A061005	College Physics B	B	3.5	56	56	0	2	
	A061006	College Physics Experiment B	B	1	18	0	18	2	
	36.5	7		36.5	586	474	112		
	A021052	Mathematical Fundamentals of Data Science		3	48	48	0	3	
	A021036	Python Programming with Python		3	48	24	24	4	
	A021035	Linux Application and Maintenance of Linux Operating System*	*	3	48	24	24	4	
	A021037	Principles and Applications of Big Data Technologies		4	64	40	24	6	
	A021040	Fundamentals of the Database Technology*	*	3	48	32	16	5	

	A021051	Non-relational Database Technology*		4	64	40	24	6	
	20	7		20	320	208	112		
	A022035	Design and Analysis of Big Data Algorithms*		2.5	40	24	16	5	
	A022046	Python Data Mining with Python*		3	48	24	24	5	
	A022037	Machine Learning Technology*		3.5	56	32	24	7	
	A022041	Data Visualization Technology*		3.5	56	32	24	7	
	A022033	Spark Big Data Processing using Spark*		4	64	32	32	6	

29.5 Java

A022029

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