

1.

2

GS

3

4

5

6

7.

8

9

10

11.

1.					
	4		3-6		
2					
		160		119.5	40.5
128.5		27.5		4	
			52.5	38	14.5
44.5		8			
			41	31	10
39	2				
			66.5	50.5	14
2	45		17.5		4

2	2	40	36	18	4
---	---	----	----	----	---

31.5	128.5	19.7%	80.3%	(		)
------	-------	-------	-------	---	--	---

1.

	576	225	558	180	612	198	1746	603	2349
%	24.52%	9.58%	23.75%	7.66%	26.05%	8.43%	74.33%	25.67%	100%
	32	12.5	29	10	34	11	95	33.5	128.5
%	24.90%	9.73%	22.57%	7.78%	26.46%	8.56%	73.93%	26.07%	100%

2

27.5

15.5

4

2

1

5

3

4

2

1

	18+4	19+4	22+6	29+7	22+7	28+3		

1.

1

18

31000209			54	36	14	4	3	2	3		
31000210			54	36	14	4	3	1	3		
31000211			108	54	36	18	6	4	6		
31000201									2		
31000206			36				2	5.6	2		
31000212			36	18	14	4	2	2	2		
31000208			36	30	4	2	2	2	2		
			2								

20

18

2

16

4

2

12

52000101			54	54		3	1	3		
52000102			54	54		3	2	3		
52000103			54	54		3	3	3		
52000104			54	54		3	4	3		

3

4

43000101			36		36	2	1	1		( )	
43000102			36		36	2	2	1		( )	
43000103			36		36	2	3	1		( )	
43000104			36		36	2	4	1		( )	
								—			

4

2

2 5

71000101			72	36	36	2+2	1	2		
71000201			90	54	36	3+2	2	2 5		
71000202			90	54	36	3+2	2	2 5		
71000203			90	54	36	3+2	2	2 5		
71000204								1		

5

2



75001410			36		36						+2					1		
75001411			54	54							3					3		
75001412			36		36						+2					1		
			630	558	72		6	7	3	6+2	3+2	6				31		

2.

10

75001601			54	54							3					3		
75001602			36	36							2					2		
75001603			36	36							2					2		
75001604			36	36							2					2		
75001605			54	54							3					3		
75001606			36	36							2					2		
75001607			36	36							2					2		
75001608			36	36							2					2		
75001609			54	54							3					3		
75001610			36	36									4		2		*	
75001611			36	36									4		2		*	
75001612			36	36									4		2		*	
75001613			36	36									4		2		*	
75001614			36	36									4		2		*	
75001615			36	36									4		2		*	
75001616			36	36							2				2			
75001617			36	36							2				2			
75001618			36	36							2				2			
75001619			36	36							2				2			
75001620			36	36							2				2			
75001621			36	36							2				2			
75001622			36	36								2			2			
75001623			36	36								2			2			
75001624			36	36								2			2			
75001625			36	36								2			2			
75001626			36	36								2			2			
75001627			36	36								2			2			

75001628			36	36								2			2		
75001629			36	36								2			2		
75001630	Python		36	36								2			2		
75001631	ENM /IDL		36	36								2			2		
75001632			36	36								2			2		
75001633			36	36								2			2		
75001634			36	36								2			2		
75001635			36	36								2			2		
75001636			36	36								2			2		
75001637			36	36								2			2		
75001638			36	36								2			2		
75001639			36	36								2			2		
			1458	1458								29	40	24	81		

“\*” 9

31

10

41

39

2

1.

36.5

75032401			54	54								3					3
75032402			72	36	36							2+2					3
75032403			54	54								3					3
75032404			72	72								4					4
75032405			54	54								3					3
75032406			54	36	18							2+1					2.5
75032407			54	54								3					3
75032408			72	36	36							2+2					3
75032409			54	54								3					3
75032410			54	54								3					3
75032411			54	54								3					3
75032412			54	54								3					3







29

21

3

4

75001401

Advanced Mathematics

4

72

72

[ 1 ]

75001402

Advanced Mathematics

4

72

72

[ 1]

75001403

Introduction to Geography

2

36

36

[ 1]

[ 2]

[ 3]

[ 4]

75001404

Physical Geography

3

54

54

[ 1]

[ 2]

[ 3]

[ 4]

75001405

Human Geography

3

54

54

[ 1]

[ 2]

75001406

Economic Geography

3

54

54

[ 1]

[ 2]

[ 3]

75001407

Regional Analysis and Planning

3

54

54

[ 1]

[ 2]

[ 3]

75001408

Cartography

3

54

54

[ 1]

[ 2]

[ 3]

75001409

Geographic Information System

3

54

54

[ 1]

[ 2]

[ 3]

75001410

Experiment of Geographic Information System

2

36

36

ArcGIS MapInfo GeoStar SuperMap



[1] ENM

[2] —ENM 5.X

[3] ENM

75001601

:

Environmental Geography

3

54

54

[1] , ,

[2] , ,

[3] , ,

75001602

Natural Disaster

2

36

36

[1] , ,

[2] , ,

- [3] , ,
- [4] ,

75001603

Introduction to Sustainable Development

2  
36 36

- [1] , ,
- [2] , ,
- [3] , ,
- [4] , ,

75001604

Practical Geoscience Software

2  
36 36

- [1] SPSS ,
- [2] SPSS , ,
- [3] SPSS , ,
- [4] SPSS , ,
- [5] Surfer 10 , ,
- [6] Corel DRAWX7



75001605

Quantitative Geography

3

54

54

[1]

[2]

[3]

75001606

:

Global Change

2

36

36

[1]

[2]

75001607

:

## Cultural Geography

2

36

36

- [1] , ,
- [2] , , ,
- [3] , ,
- [4] , ,

75001608

## Tourism Geography

2

36

36

- [1] , ,
- [2] , ,
- [3] , ,
- [4] , ,

75001609

## Landscape Ecology

3

54

54

- [1] , ,
- [2] , ,
- [3] — , ,

75001610

### Environmental Geochemistry

2 9  
36 36

- [1] , ,
- [2] , ,
- [3] , ,
- [4] , ,

75001611

### Appreciation and Cultural of Gens

2 9  
36 36

- [1]

[2]

[3]

[4]

75001612

Introduction to Cryosphere

4c

[20]

4c

20

M

Ê

Rutledge

75001614

Advance in Geography Science

2 9

36 36

[1]

[2]

[3] —

75001615

Geographical literature reading and thesis writing

2 9

36 36

[1]

[2]

[3]

75001616

:

Popul ati on Geography

2

36

36

[ 1]

1999

1

[ 2]

1992

1

[ 3]

1991

1

[ 4]

1987

1

75001617

:

Land Resources and Eval uati on

2

36

36

[ 1]

2011

1

[ 2]

2005

1

75001618

:

Urban Economics

2

36

36

- [ 1] 2005 1
- [ 2] 2004 1
- [ 3] 2006 1

75001619

:

Urban Sociology

2

36

36

- [ 1] 2002 1

- [ 2] 2004 1

- [ 3] 2004

1

- [ 4] 2001 1

75001620

:

Landscape Planning and Design

2

36

36

- [1] 2005 1
- [2] 1998 1
- [3] 1998 1
- [4] 1999 1

75001621

:

Urban Geographic Information System

2

36

36

GIS

GIS

GIS

GIS

GIS

- [1] 2005 1
- [2] 2001 1
- [3] 2005 1
- [4] 2001 2

75001622

:

History of geographical thought

2

36

36



[1] 2010 1

75001623

:

Urban Managenent

2

36

36

[1] , 2007 1

75001624

:

Town pl anni ng

2

36

36

[1] 2007 1

75001625

:

The hi storic city of conservati on pl anni ng

2

36

36

[ 1 ]  
1

1999

75001626

:

Site Design

2

36

36

[ 1 ]

2012 1

75001627

:

Land Information System

2

36

36

[ 1 ]

2009 1

75001628

:

Urban History of China and the Abroad

2

36

36

[1]

1989

[2]

1989

2

[3]

1989

75001629

Spatial Data Structures and Algorithm

2

36

36

GIS

Stephen Wse

2012

1

[1]

Python

2016

1

[2]

Java

• •

2014

3

75001630

Python  
Python Programming

2  
36 36

Python Python Python Python

Python Magnus Lie Hetland 2010 1

[1] Python Mark Lutz 2011 1

75001631

ENM/IDL

Secondary Development of ENM/IDL

2  
36 36

ENM/IDL

IDL

ENM ENM IDL

IDL — ENM  
2012 1

[1] ENM 2010 1

[2] IDL 2003 1

75001632

## Digital Elevation Model and Application

2

36

36

2000 1

[1]

2010 2

[2]

2012 1

75001633

## Map Design and Compilation

2

36

36

2001 1

[1]

2014 1

[2]

Menno-Jan Kraak

2014 1

[3]

2006 1

75001634

Analysis and Application of Map

2

36

36

2013

[1] 1996 1

[2] 1994 1

[3] 2014 1

75001635

Quantitative Remote Sensing

2

36

36

2009 1

[1] 2013 1

[2]

2016 1

75001636

Remote Sensing for Land & Resources

2

36 36

2011 1

[1]

1980 1

[2]

2001 1

75001637

Ecological Remote Sensing

2

36 36

—

2011 1

[1]

2013 2

[2]

2011 1

75001638

### Remote Sensing of Cryosphere

2

36

36

2007 1

[1]

2015 1

[2]

2011 1

### Unmanned Aerial Vehicle Surveying and Mapping

2

36

36

2015 1

[1]

2014 3



- [2] 2015 4
- [3] GPS 2013 1
- [4] 2016 3

75032401

Preliminary Architecture Design

3  
54 54

1999

- [1] [ ] •  
2003

75032402

Planning and Design Technology

4  
72 36 36

AutoCAD2008 CAD Photoshop CS4 Google SketchUp 8

- [1] AutoCAD 2008  
2008

75032403

Urban Geography

3

54

54

1997

[2]

1998

75032404

Principle of City Planning

4

72

72

[1]

2010 4

75032405

Quantitative Geography

3

54

54

		2014	2
[1]		2006	3
[2]		2005	1
[3]		2002	2
[4]		2005	1

75032406

### Principles and Methods of Digital Mapping

3		
54	36	18

[1]		2009	2
-----	--	------	---

75032407

### Land Use Planning

Å		26	1
---	--	----	---



[1] 2007 2

75032411

Legislation and Administration on Urban Planning

3

54 54

[1] 2003

[2] 2004

[3] 2011

[4] 2009

75032412

Research methods of human geography

3

54 54

[1] ( ) R ( ) N J.

2006

75032501

Thinking train of urban design

3

54

54

:

---

[1]

2007

75032502

Regulatory Detailed Planning

4

72

36

36

[1]

2011

75032503

Urban Engineering System Planning

3



[ 1]

1999

[ 2]

2000

75032506

Land Resource Science

3

54

54

[ 1]

2010 5

75032507

Land resources survey

3

54

54

[ 1]

2002



- [2] 1999
- [3] 1998
- [4] 1992
- [5] 1995

75032508

### Land managenent

2  
36 36

- [1] 2000
- [2] 1998

75032509

### Land Informati on System

3  
54 36 18

- [1] 2009 1

75032510

Land type and land evaluation

3

54

54

[1]

2009 3

[2]

2005

[3]

2008

[4]

2006