

2017 4

1.

2

3

4

5

6

7.

1.

4

3—6

2  
 160  
 38.5  
 52.5  
 38  
 14.5  
 44.5  
 8  
 41  
 31  
 10  
 39  
 2  
 66.5  
 53  
 13.5  
 38  
 24  
 4.5

GS GS

2 40 36 18 4  
 2

121.5 75.9% ( )  
 38.5 24.1%

1.

	576	225	558	180	576	108	1710	513	2223
%	25.91%	10.12%	25.10%	8.10%	25.91%	4.86%	76.92%	23.08%	100.00%
	32	12.5	29	10	32	6	93	28.5	121.5

%	26.34%	10.29%	23.87%	8.23%	26.34%	4.94%	76.54%	23.46%	100.00%
---	--------	--------	--------	-------	--------	-------	--------	--------	---------

2

34

22

2

4

1

5

3

4 5

1

1

1.5

1

	18+4	19+4	27+6	30+8	22+6	23+8			

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		



			36	36		2	1	2		
	1-2 / 18-36 /									
										3
								10		

44 5                      8                      52 5                      38                      14 5

1.    31

75001401	I		72	72			4									3
75001402	II		72	72				4								3
75001403			36	36			2									2
75001404			54	54								3				3
75001405			54	54								3				3
75001406			54	54									3			3
75001407			54	54									3			3
75001408			54	54				3								3
75001409			54	54					3							3
75001410			36		36				+2							1
75001411			54	54						3						3
75001412			36		36					+2						1
			630	558	72		6	7	3+2	3+2	6	6				31

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.

41

75042401			36	36							2						2
75042402			54	54							3						3
75042403			54	54							3						3
75042404			72	72							4						4
75042405			72	36	36						2+2						3
75042406			72	36	36						2+2						3
75042407			72	36	36						2+2						3
75042408			54	54							3						3
75042409			72		72						+4						2
75042410			72	36	36							2+2					3
75042411			72	36	36							2+2					3
75042412			54	54							3						3
75042413	GS		72	36	36						2+2						3

75042414	GS		72	36	36						2+2		3	
			900	576	324			134	86	52	6+6		41	

2

1

9

1

75042501	GS		72	36	36					2+2			3	
75042502			72	36	36					2+2			3	
75042503			72	36	36					2+2			3	
			216	108	108				4+4	2+2			9	

2

75042504			72	36	36					2+2			3	

75042505 EV7'

MF 7'



75042507

2

2

3—4

1



[ 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

- [ 1]
- [ 2]
- [ 3] ArcGIS

75001411

75001411

### Introduction to Remote Sensing

3

54

54

- [ 1]
- [ 2]
- [ 3]

75001412

### Experiments on Remote Sensing

2

36

36

O . ÿ , ' 4\*6 é# ¼ Ÿ 1y °7- È p6< § 7@ ã ` - j ÎLuL NÈ , '7- È Ä  
%o € ËF•O ‡ . ÿ 4\*6 ÎP¼ %o0; Ê N )¹ U5F 0 - \*(x/n  
ò63 -- Ö  
> @ É ( 1 9 , F•O . ÿ 4\*6Gü é#ÈÈÄ - ¼5F È0 - \*(x/n  
> @ ÉF•O ‡ . ÿ 4\*6 > 6 À ü ( 1 9 , ; ÎP¼ %o0; Ê ~ A ·1y5F È+e € J \*(x/n  
> @ É ( 1 9 , F•O j ÿ 4\*6 > CNÈ ÎDËËË · 91y5F È j -) ß ³0 - \*(x/n  
x B.0; Ö `6 - EAê `6 Ÿ3+5 F•O ²Aê

Ä ¼ Å -0 +F9B.0; Q ‡

B.0;5F ' Ö

B.0; j · =0 ) ß ³ `6 -

B.0;9! · =0 Ö ( Q Y L U R Q P Q M R D J U D S K \

B.0;2« » Ö -L' £ B.0; È +F9

~ - & Ö - &

k - & Ö - & ÈAâ , - &

µ é ?± Ö\B.0; k?± û4ý) ß ³ `6 - ² % ú -0 (© ± È) ß ³ `6 > ê2« £3+ È) ß ³ `

\*64ð @?±3P(© ± È j ) ß ³ , ' ' @ > 6 Ä Ä p 2) ß ³ ¼ ì •) ß ³ Ä È j - Ä ~\*3) ß ³ L NÈ >

15 ... Ä) ß ³ `6 - , .D0! é# 1y Ä

%o € Ë) ß ³ `6 - È ~ " û Ä7 ç / • k5F 86Ö J W - \*(x/n

ò63 -- Ö

> @ É) ß ³ `6 - È L > =) Æ k5F j -) ß ³0 - \*(x/n

> @ É) ß ³0 - ²Aê È ~ Ä HM%o) â5F: ‡ Q 1y %o6â \*(x/n

> @ É) ß ³ - , Aê È H ... j k5F \$5 ~ W - \*(x/n

B.0;5F ' Ö

B.0; j · =0 Ö8 'f&® ã -

B.0;9! · =0 Ö 1 D W X U D L O / D V W H U

B.0;2« » Ö -L' £ B.0; È +F9

~ - & Ö - &

k - & Ö - & ÈAâ , - &

µ é ?± Ö\B.0; k?± û4ý ¶&® ã >&® ã3+5 1y \* .p. Aö ú&® ã - .D0!\*6Aê f3+ È!

)8 'f&® ã j 6 2?ô » > f Ö&® ãK. Ä&® ãNpL™1Ñ\*6 ÄÄ U1Ñ\*6 Äÿ&®3+5 0; Äk?±&®

ã , Lb"è Ú í Ä) à Q à ° \_ X&® ã - # { 6 Ä > 1Ñ\*6 j , ' Ä+X1y µ éF > | ¶3+5 , L@F Ä

%o € Ë&® ã - È " ç ~ k5F 0 - \*(x/n

ò63 -- Ö

- [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

2 9  
36 36

- [1] —
- [2]
- [3]
- [4]

75001613

### Physical Geography in Arid Lands

2 9  
36 36

[1]

[2] Dry lands environmental management and development Beaumont P. London  
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

:

Population Geography

2

36

36

[1]

1999

1

[2]

1992

1

[3]

1991

1

[4]

1987

1

75001617

:

Land Resources and Evaluation

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] 1999  
1

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

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

75042401

Introduction to Geographic Information Science

2  
36 36

75042402

Linear Algebra

3  
54 54  
Gauss

2010 2

- [1] 2013 1
- [2] C 2016 3

75042403

Probability Theory and Mathematical Statistics

3  
54 54

2006 4

[ 1] 2012 2

75042404

College Physics

3

54

54

[ 1]

2012 1

[ 2]

2006 5

[ 3]

2006 1

75042405

Object-oriented Programming

2+2

72

36

36

C++

C++

C++

2006 1

[1] Head First Object-Oriented Analysis & Design David West, Brett McLaughlin,  
Gary Pollice O'Reilly Media, Inc 2006 First Edition

[2] Booch G 2012 2

75042406

### Data Structures

2+2

72 36 36

1998 1

[1] Data Structures And Algorithm Analysis in C Mark Allen Weiss  
2005 1

[2] C 2010 2

75042407

### Spatial Database

2+2

72 36 36

SQL

”

- [ 1] 2014 5
- [ 2] SQL Server 2005 2008 1

75042408

### Elementary Geodesy

3  
54 54

2012 3

- [ 1] 2014 3
- [ 2] 2015 4
- [ 3] 2016 1
- [ 4] 2010 2
- [ 5] GPS 2013 1

75042409

### Experiments on Elementary Geodesy

4  
72 72

2000 3

[1]

2011 1

[2]

2003 2

75042410

### Satellite Navigation and Positioning Technology

2+2

72

36

32

o

2003 1

- [ 1] 1996 1
- [ 2] 1995 2

75042412

### Remote Sensing Geo-analysis

2+2

72 36 36

2005 1

- [ 1] 2013 2
- [ 2] . ~

GIS

	GIS		2011	2		
[1]				2010	2	
[2]				2011	1	
[3]	ArcGIS	Python			2014	1
[4]	ArcGIS	Python			2015	1
[5]	ArcGIS	Engine			2012	2
[6]		GIS			2010	1
[7]	ArcGIS	—			2006	1

75042414

GIS

Spatial Analysis of GIS

2+2

72

36

36

GIS

				2013	1	
[1]	GIS			2017	2	
[2]	GIS			2016	1	
[3]				2016	1	

75042501

GIS

Development and Application of Mobile GIS

2+2

72 36 36

GIS

Android

GIS

GIS

GIS

Android

2010 1

[1] ArcGIS for Android 2.0  
2012 1

Esri China Esri

75042502

Geographic Information Service

2+2

72 36 36

Internet

WebGIS

WebGIS

WebGIS

GIS

ArcGIS Server

Flex .NET

2011

1

[1] ArcGIS Server

2013 1

[2]

2012 1

75042503



Remote Sensing Digital Image Processing

2+2

72

36

36

2015 1

[1]

[2]

1

2015 2

2007

Jensen J R

75042504

Quantitative Remote Sensing

2+2

72

36

36

2009 1

[1]

2013 1

[2]

2016 1

75042505

ENM/IDL

Secondary Development of ENM/IDL

2+2

72                    36                    36

ENM/IDL

IDL

ENM

ENM

IDL

IDL

—

ENM

2012    1

[ 1] ENM

2010    1

[ 2] IDL

2003    1

75042506

Ecological Remote Sensing

2+2

72                    36                    36

—

2011    1

[ 1]

2013    2

[ 2]

2011    1