\ Lis	st of Courses for Natural	Scier	nce	Experio	mental	Clas	s (Bio	techno	logy) 20
							location		
Course			Total	Scheduling			actice Tea	ching	
Code	Course Title	Credit	Hours	Hours	Theoretical Teaching		т., 1:	0.1	Semester
					reaching	Lab.	Internship	Others	
	<u> </u>	Comme	n Cogn	nition Cour	ses				
eneral	Courses								
ompulso	ory Courses								
	rses are required to taken (4 times for Sit	1							
H028 H000	Modern Chinese History cultivation of Ethics and Fundamentals of	3	48	48 48	32 32			16	1 2
11000	Introduction to Mao Zedong's Thoughts &	3	70	40	32			10	<u> </u>
TH029	Theoretical System of Socialism with	3	48	48	48				3
TH007	Chinese Characteristics Basic Theory of Marxism	3	48	48	32			16	4
E001	Physical Education (1)	1	32	32	32			32	1
E002	Physical Education (2)	1	32	32				32	2
E003	Physical Education (3)	1	32	32				32	3
E004	Physical Education (4)	1	32 16	32 16	1.6			32	4
TH004	Military Theory Total Credits	17	16	16	16				2
ntional	1 Courses	17	<u> </u>						
credit	ts are required for English electives durin	g the who	le per	iod of stud	ly.				
NOCI	B 1:1/1)	1 2	40	40	40			Т	•
N061 N062	English (1) English (2)	3	48	48 48	48	+		+	1,2
N063	English (3)	3	48	48	48				1,2,3
N064	English (4)	3	48	48	48				1,2,3
N065	English (5)	3	48	48	48				2
	Total Credits	15							
ommon (Cognition Core Courses								
inimum	12 credits.								
	1			1					
1902	Bioethics	2	32	32	32				4
	Humanities	2							
	Social Sciences	2							
	Natural Science								
		_	<u> </u>			-		-	
	Engineering Sciences and Technology	2				-			
	Total Credits	12							
	on Practice								
	ory Courses uired to taken								
(P004	Social Cognition Practice in the New Era	2	32					32	2
11 004			32					32	2
	Total Credits		L						
asic Co	OUMGOG	Sp	eciali	zed Courses	1				
	ory Courses								
.11 requ	uired to taken								1
	uired to taken Natural Science Foundation	2	32	32	32			J	
BI143	Natural Science Foundation		32 64		32 64				1
BI143 CA150	Natural Science Foundation Inorganic & analytical chemistry	4	64	64	64				1
BI143 CA150 MA077	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B)	3	64 48	64 48	64 48				1
BI143 CA150	Natural Science Foundation Inorganic & analytical chemistry	3 6	64	64	64				1
EA150 MA077 MA080	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B)	3	64 48	64 48	64 48				1
EA239	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B) Advanced Mathematics (A) (1)	3 6	64 48 96	64 48 96	64 48 96				1
EA150 MA077 MA080 EA239 N100	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B) Advanced Mathematics (A) (1) Organic Chemistry (1)	4 3 6 4	64 48 96 64	64 48 96 64	64 48 96 64				1 1 2
EA150 MA077 MA080 CA239 N100 MA081	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B) Advanced Mathematics (A) (1) Organic Chemistry (1) Information Retrieval and Utilization Advanced Mathematics (A) (2)	4 3 6 4 1 4	64 48 96 64 16 64	64 48 96 64 16 64	64 48 96 64 16 64				1 1 2 2 2
EA150 MA077 MA080 EA239 N100 MA081 MA119	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B) Advanced Mathematics (A) (1) Organic Chemistry (1) Information Retrieval and Utilization Advanced Mathematics (A) (2) Probability & Statistics	4 3 6 4 1 4 3	64 48 96 64 16 64 48	64 48 96 64 16 64 48	64 48 96 64 16 64 48				1 1 2 2 2 2 2
EA150 MA077 MA080 EA239 N100 MA081 MA119	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B) Advanced Mathematics (A) (1) Organic Chemistry (1) Information Retrieval and Utilization Advanced Mathematics (A) (2) Probability & Statistics Physics (B) (1)	4 3 6 4 1 4 3	64 48 96 64 16 64 48	64 48 96 64 16 64 48	64 48 96 64 16 64 48				1 1 2 2 2 2 2 2
BI143 CA150 MA077 MA080 CA239 N100 MA081 MA119 PH003 BI131	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B) Advanced Mathematics (A) (1) Organic Chemistry (1) Information Retrieval and Utilization Advanced Mathematics (A) (2) Probability & Statistics Physics (B) (1) Introduction to Biology	4 3 6 4 1 4 3 3 3	64 48 96 64 16 64 48 48	64 48 96 64 16 64 48 48	64 48 96 64 16 64 48 48				1 1 2 2 2 2 2 2 2 2 3
E1143 EA150 MA077 MA080 EA239 N100 MA081 MA119 H003 E1131 EA240	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B) Advanced Mathematics (A) (1) Organic Chemistry (1) Information Retrieval and Utilization Advanced Mathematics (A) (2) Probability & Statistics Physics (B) (1)	4 3 6 4 1 4 3 3 3 4	64 48 96 64 16 64 48 48 48	64 48 96 64 16 64 48 48 48	64 48 96 64 16 64 48 48 48				1 1 2 2 2 2 2 2 2 2 3 3
E1143 EA150 HA077 HA080 EA239 N100 HA081 HA119 H003 E1131 EA240 ES154	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B) Advanced Mathematics (A) (1) Organic Chemistry (1) Information Retrieval and Utilization Advanced Mathematics (A) (2) Probability & Statistics Physics (B) (1) Introduction to Biology Biochemistry (1) Infinking and Approach of Programming	4 3 6 4 1 4 3 3 3 4 3	64 48 96 64 16 64 48 48 48 64 48	64 48 96 64 16 64 48 48 64 48	64 48 96 64 16 64 48 48 48 64 48				1 1 2 2 2 2 2 2 2 3 3 3
II143 A150 IA077 IA080 A239 N100 IA081 IA119 H003 II31 A240	Natural Science Foundation Inorganic & analytical chemistry Linear Algebra (B) Advanced Mathematics (A) (1) Organic Chemistry (1) Information Retrieval and Utilization Advanced Mathematics (A) (2) Probability & Statistics Physics (B) (1) Introduction to Biology Biochemistry (1)	4 3 6 4 1 4 3 3 3 4 3 3	64 48 96 64 16 64 48 48 48	64 48 96 64 16 64 48 48 48	64 48 96 64 16 64 48 48 48				1 1 2 2 2 2 2 2 2 2 3 3

All roa	uired to taken								
BI144	Biochemistry	3	48	48	48			1	3
BI145	Advanced Biochemistry	3	48	48	48				4
BI211	Microbiology (D)	3	48	48	48				4
BI310	Genetics (A)	2	32	32	32				4
BI307	Cell Biology (B)	3	48	48	48				5
BI318	Molecular Biology (F)	4	64	64	64				5
BI437	Applied Bioinformatics	2	32	32	32				5
BI419	Developmental Biology	2	32	32	32				6
BI461	Biostatistics & mathematical model	3	48	48	48				6
	Total Credits	25							
Special:	ized Courses							1	
F	1 Courses								
	its are required for English elective course			· -		1	ı	ı	
BI286	Anatomy & Physiology	2	32	32	32				4
BI287	Ecology & Evolution	2	32	32	32				4
BI382	Gene Engineering	2	32	32	32				5
BI423	Immunology	2	32	32	32				5
BI486	Bioreaction & Bioprocess Engineering	2	32	32	32				5
BI326	Cell Engineering	2	32	32	32				6
BI487	Protein and Enzyme Engineering	2	32	32	32				6
	Total Credits	14							
		Special	ized P	ractical Co	ourses				
	in Lab. ory Courses								
	uired to taken								_
CA156	Inorganic & Analytical Chemistry Experiment	2	64	64		64			1
CA155	Organic Experiment I	2	64	64		64			2
ME130	Eco-Tech Innovation Experiment	2	64	64		64			2
PH028	Physics Lab. I	1	24	24		24			2
BI299	Biochemistry Lab.	1.5	48	48		48			3
CA241	Physical Chemistry Experiment I	2	64	64		64			3
PH029	Physics Lab. II	1	24	24		24			3
BI285	Advanced Biochemistry Lab	1.5	48	48		48			4
BI356	Microbiology Experiment	1.5	48	48		48			4
BI357	Cell Biology Lab.	1	32	32		32			5
BI362	Gemetics Lab.	1	32	32		32			5
BI411	Comprehensive Experiments of Biotechnology	2	64	64		64			7
	Total Credits	18.5							
	hip & Practice ory Courses								
	uired to taken								
TH010	Military Training	3	48	48				48	2
BI288	Science & Technology Internship and Innovation—Biotechnology (1)	2	64				64		4
BI328	Science & Technology Internship and Innovation—Biotechnology (2)	1	32				32		5
BI344	Science & Technology Internship and Innovation—Biotechnology (3)	1	32				32		6
BI366	Professional Practice (Biotechnology)	2	64	64			64		6
D P	Total Credits	9							
	ional Comprehensive Practice uired to taken								
BS447	Undergraduate project (Thesis) (Biotechnology)	12	384	384				384	8
	Total Credits	12			l	-	ı	1	
		Λ±1	on 0	ional C	00				
6 credi	ts are required during the whole period of s		er Upt:	ional Cours	es				
ME124	Engineering Practice (B)	2	64	64				64	2 (in summer semester)
BI278	Field Trip on Biology (B)	1	32	32			32	<u> </u>	3
				l	<u>I</u>		l	I.	· ·

