

Functional Materials B.S.		
	Compulsory Course	Credit
YEAR ONE	Chemical Lab Safety	0.5
	Inorganic Chemistry I	3
	Inorganic Chemistry II	3
	Analytical Chemistry	3
	Advanced Mathematics I	4
	Advanced Mathematics II	4
	General Physics	6
	Computational Chemistry	3
	Experimental Physics	3
	Elementary Chemistry Experiment-I (Inorganic Chemistry)	2
	Elementary Chemistry Experiment-I (Analytical Chemistry)	3
	YEAR TWO	Organic Chemistry I
Organic Chemistry II		3
Physical Chemistry I		4
Molecular Simulation and Design		2
Elementary Chemistry Experiment-I (Organic Chemistry and Polymer Chemistry and Physics)		6
Elementary Chemistry Experiment-II (Physical Chemistry)		2
Frontier Chemistry Seminar I		1
Frontier Chemistry Seminar II		1
YEAR THREE	Physical Chemistry II	2
	Structural Chemistry	3
	Polymer Chemistry and Physics	4
	Fundamentals of Materials Science	4
	Basic Mechanical Drawing	2
	Solid-state Chemistry	3
	Linear Algebra	3
	Functional Polymer Materials	3
	Electron Microscopy	2
	Elementary Chemistry Experiment-II (Instrument Analysis)	2
	Elementary Chemistry Experiment-II (Chemical Engineering)	1.5
YEAR FOUR	Comprehensive Chemical Experiment	3
	Chemical Production Internship	3
	Undergraduate Project	10

Total compulsory credits for Functional Materials B.S. are 102 in Lanzhou University.

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No.	Elective Course	Credit
1	Rare-earth Materials	2
2	Techniques for Materials Fabrication	2
3	Magnetic Materials	2
4	Solid Luminescent Materials	2
5	Principle of Shaping and Processing Polymer Material	2
6	Instrumental Analysis	2
7	Elementary Chemical Engineering	2
8	Functional Organic Material	2
9	Electronic Chemicals	2
10	English for Functional Material Majors	2
11	Biomedical Materials	2
12	Coating and Adhesive Materials	2
13	Nanochemistry	2
14	Characterization Principle and Technology of Functional Materials	2
15	New Energy Materials	2
16	Polymer Composite	2
17	Aeronautical Material	2
18	Introduction of Environmental Materials	2

Notes: 6 additional elective courses (12 credits) need to be taken in third and fourth years from the above courses.