

## English-medium Courses for undergraduate students at TJU (2014)

No.	Subjects	Faculty	Credit units	Credit hours
1	Programming in C++	Computer Software	3.5	64
2	Advanced C++ Object-Oriented Programming	Computer Software	3	56
3	Java Programming Design	Computer Software	1.5	32
4	Specialized Courses Design	Computer Software	3	16
5	Process Safety Engineering	Chemical Engineering	2	32
6	Bioreactor Design	Chemical Engineering	2	32
7	Transport Phenomena	Chemical Engineering	2	32
8	College Chemistry	Science	2	32
9	Modern Instrumental Analysis 1A	Science	2	32
10	Modern Instrumental Analysis 2	Science	2	32
11	Signal Analysis and Processing	Electrical Engineering and Automation	3	40
12	Basis of Circuits 4A	Electrical Engineering and Automation	4	48
13	Basis of Circuits 4B	Electrical Engineering and Automation	4	48
14	Descriptive Geometry & Engineering Graphics A\B	Civil Engineering	6	96
15	Theoretical Mechanics	Civil Engineering	4	64
16	Mechanics of Materials	Civil Engineering	5	80
17	Structural Mechanics 1	Civil Engineering	3	48
18	Structural Mechanics 2	Civil Engineering	3	48
19	Construction Materials	Civil Engineering	3	48
20	Engineering Geology	Civil Engineering	4	64
21	Hydraulics	Civil Engineering	6	96
22	Engineering Surveying	Civil Engineering	3	48
23	Principles of Concrete Structure	Civil Engineering	5	80
24	Principles of Steel Structure	Civil Engineering	4	64
25	Soil Mechanics	Civil Engineering	4	64

26	Engineering Economics	Civil Engineering	2	32
27	Foundations of Elasticity	Civil Engineering	2	32
28	Engineering Construction	Civil Engineering	3	48
29	Curriculum Design of Civil Engineering Construction	Civil Engineering	1	16
30	Software in Hydraulic Engineering	Civil Engineering	2	32
31	Introduction to Civil Engineering	Civil Engineering	2	32
32	Load and Principle of Structural Design	Civil Engineering	2.5	40
33	Design of Building Steel Structures	Civil Engineering	4	64
34	Design of Concrete Structure	Civil Engineering	4	64
35	Bridge Engineering	Civil Engineering	4	64
36	Underground Engineering	Civil Engineering	4	64
37	Engineering Hydrology	Civil Engineering	3	48
38	Hydraulic Structure	Civil Engineering	4	64
39	Hydropower Station(including hydraulic machinery)	Civil Engineering	4	64
40	Water Resources and Hydropower Planning	Civil Engineering	3	48
41	Wave Mechanics of Ocean Engineering	Civil Engineering	3	48
42	Offshore Pile foundation Platform	Civil Engineering	3	48
43	Mobile Offshore Structures	Civil Engineering	3	48
44	Subsea Pipeline Engineering	Civil Engineering	3	48