

Advanced Program in Technology of Pharmaceutical Chemistry

No	Course code	Course title	Period (Spring/Fall)	Semester	Credit
1	MI1016	Analysis I	Fall	1	4(3-2-0-8)
2	MI1036	Algebra	Fall	1	4(3-2-0-8)
3	MI1026	Analysis II	Spring	2	4(3-2-0-8)
4	MI2026	Probability and Statistics	Spring	2	4(3-2-0-8)
5	CH1012E	Chemistry I	Spring	2	2(2-1-0-4)
6	IT1016	Introduction to Computer Science	Fall	3	3(2-1-2-6)
7	CH1015E	Chemistry II	Fall	3	2(2-0-1-4)
8	CH3200E	Organic Chemistry I	Fall	3	3(3-1-0-6)
9	CH3006E	Physical Chemistry	Spring	4	3(3-1-0-6)
10	CH3330E	Analytical Chemistry	Spring	4	3(3-1-0-6)
11	CH2040E	Introduction to Process Engineering	Fall	3	3(3-1-0-6)
12	CH2041E	Process Fluid Mechanics	Fall	3	2(2-1-0-4)
13	CH3480E	Organic Chemistry Lab I	Fall	3	1(0-0-2-2)
14	CH2043E	Heat and Mass Transfer	Spring	4	3(3-1-0-6)
15	CH3231E	Organic Chemistry Lab I	Fall	5	1(0-0-2-2)
16	CH3210E	Organic Chemistry II	Fall	5	2(2-1-0-4)
17	CH2014E	General Biochemistry	Spring	4	3(3-0-0-6)
18	CH3490E	Unit Operations Laboratory II	Spring	4	1(0-0-2-2)
19	CH4510E	General Pharmaceutical Chemistry	Spring	4	2(2-1-0-4)
20	CH3007E	Physical Chemistry Lab	Spring	4	1(0-0-2-2)
21	CH3232E	Organic Chemistry Lab II	Fall	5	1(0-0-2-2)
22	CH3340E	Analytical Chemistry Lab	Spring	4	2(0-0-4-4)
23	CH4481E	Spectroscopic Identification of Organic Compounds	Fall	5	3(3-1-0-6)
24	CH4490E	Basic Pharmaceutics	Fall	5	2(2-1-0-4)
25	CH4602E	Principles of Process Engineering	Spring	4	2(2-1-0-4)
26	CH3840E	Kinetics and Reactor Design	Spring	6	3(3-1-0-4)
27	CH4400E	Process Control and Instrumentation	Spring	6	2(2-1-0-4)
28	CH3452E	Simulation and Concept Design	Spring	6	3(3-1-0-6)
29	CH4827E	Chemistry of Natural Products	Spring	6	3(3-0-0-6)
30	CH4516E	Seminar	Fall	7	3(2-2-0-6)

31	CH4517E	Structure-activity relationship	Fall	7	3(3-1-0-6)
32	CH5606E	Isolation and Purification Techniques	Fall	7	2(2-1-0-4)
33	CH4492E	Pharmaceutical Chemistry I	Fall	5	2(2-1-0-4)
34	CH4484E	Advanced Organic Synthesis of Medicinal Compounds	Spring	6	3(3-1-0-6)
35	CH4496E	Pharmaceutical Chemistry II	Spring	6	2(2-1-0-4)
36	CH4500E	Pharmaceutical Chemistry Lab I	Spring	6	2(0-0-4-4)
37	CH4502E	Research Project	Spring	6	2(0-0-4-4)
38	CH3853E	Drug Design and Development	Fall	7	2(2-1-0-4)
39	CH4501E	Pharmaceutical Chemistry Lab II	Fall	7	2(0-0-4-4)
40	BF4661E	Quality Management in Pharmaceutical and Food Industry	Spring	8	2(2-0-0-4)
41	CH4833E	Fragrances and Cosmetics	Spring	8	2(2-1-0-4)
42	ED3220	Soft Skills	Fall	3	2(1-2-0-4)
43	ED3280	Applied Psychology	Fall	7	2(1-2-0-4)
44	EM1010	Introduction to Management	Spring	8	2(2-1-0-4)
45	EM1180	Business Culture and Entrepreneurship			2(2-1-0-4)
46	ET3262	Technology and Technical Design Thinking			2(1-2-0-4)
47	TEX3123	Industrial Design			2(1-2-0-4)
48	CH3900E	Engineering practicum	Spring	8	2(0-0-4-4)
49	CH4900E	Bachelor's thesis	Spring	8	6(0-0-12-12)