

Curriculum Leading to the Degree of B.S. in Industrial Chemistry

FRESHMAN YEAR

First Semester	Crs.	Second Semester	Crs.
Military or Air Science (Men)	2	Military or Air Science (Men)	2
English 1a	3	English 1b	3
Mathematics 17 (College Algebra)	3	Mathematics 19 (Analytics & Calc I)	3
Mathematics 18 (Trigonometry)	3	Phys. Ed.	1
Chemistry 1a (General Chemistry)	5	Eng. 6 (Pub. Spkg.)	3
Hygiene 1	1	Chemistry 1b (General Chemistry)	5
Phys. Ed.	1	*Elective, Social Studies	3
	<hr/>		<hr/>
	16-18		18-20

SOPHOMORE YEAR

First Semester	Crs.	Second Semester	Crs.
Military or Air Science (Men)	2	Military or Air Science	2
Chemistry 25a (Anat. Chem.)	5	Chemistry 25b (Anal. Chem.)	5
Mathematics 20 (Analytics & Calc II)	4	Mathematics 21 (Analytics & Calc III)	4
Physics 3a	3	Physics 3b	3
Physics 4a	2	Physics 4b	2
Humanities—Elec.	2	Engineering Drawing 2	1
	<hr/>		<hr/>
	16-18		15-17

JUNIOR YEAR

First Semester	Crs.	Second Semester	Crs.
Chemistry 130a (Organic)	5	Chemistry 130b (Organic)	5
Chemistry 140a (Physical)	3	Chemistry 140b (Physical)	3
Chemistry 144a (Physical Lab.)	2	Chemistry 144b (Physical Lab.)	2
German 21a	3	Mathematics 105 (Differential Equations)	3
Economics 51	3	*Electives, Humanities	2
Elective (Social Studies)	3	German 21b	3
	<hr/>		<hr/>
	19		18

SENIOR YEAR

First Semester	Crs.	Second Semester	Crs.
Chemistry 110a (Advanced Inorganic)	2	Chemistry 110b (Advanced Inorganic)	2
Chemistry 164a (Ind. Chem. Prin.)	2	Chemistry 160b (Ind. Chem. Proc. & Stoich.)	2
Chemistry 133 (Qualitative Organic Anal.)	3	Chemistry 164b (Ind. Chem. Prin.)	2
Chemistry 160a (Ind. Chem. Proc. & Stoich.)	2	Chemistry 141 (Chemical Thermodynamics)	3
Chemistry 181 (Chemical Literature)	1	†Chemistry 188b (Seminar)	1
†Chemistry 188a (Seminar)	0	‡Biological Science	3
‡Biological Science	3	German 24b	3
*Elective (Humanities)	2		
German 24a	3		
	<hr/>		<hr/>
	18		16

Total number of semester hours required for a degree { Exclusive of Mil. Sci.).....136
and Physical Education credits

* Electives are to be chosen from courses designated by the Department of Chemistry. A student who is planning on graduate work may substitute six semester hours of French for the requirement in the Humanities.

† Chemistry 188a, b (Undergraduate Seminar). Each senior is required to present a minimum of four reports to the student-faculty group to earn one semester hour of credit. Attendance at the seminar for two semesters is required before one hour of credit is earned.

‡ The Biological Science requirement may be met by courses in this field selected with the approval of the Department of Chemistry.

ECONOMICS

Students wishing to major in economics from the social science approach may register in the College of Arts and Sciences. This program will enable the graduate to enter many fields of governmental and private employment.