

Curriculum for Students Admitted Fall 1919

This is the curriculum for the Bachelor of Science in Mechanical Engineering adopted when Newark Technical School became Newark College of Engineering in 1919. Five students completed these requirements and graduated in Spring 1923.

First Year	Hours per week	Points
Advanced Algebra (512), Trigonometry (514), Analytical Geometry (516)	4	8
General Physics (530)	3	6
Electricity (537)	4	4
General Chemistry (540)	3	6
Mechanical Drafting (744)	4	4
English (820a)	3	6
Modern Language (Spanish or French) (840-850)	3	6
Shop Practice in the Industries, 18 weeks	44	10
Second Year		
Calculus (517)	4	8
Analytical Mechanics (531)	2	4
Chemistry (Quantitative Analysis) (544)	4	4
Elements of Electrical Engineering (621.3)	4	4
Electrical Engineering Laboratory (621.3a)	4	4
General Lectures on Applied Electricity and Electrical Industries (621.3m)	2	4
Mechanical Drafting (744a)	4	4
English (820b)	3	6
Modern Language (Spanish or French) (868-848)	3	6
Shop Practice in the Industries, 18 weeks	44	10
Third Year		
General Lectures on Mechanical Industries (621.a)	2	4
Differential Equations (517.38)	1	1
Mechanics of Materials (620.1)	4	6
Heating and Ventilating Machines (698.8)	2	2
Mechanics of Machinery (531.8)	4	2
Prime Movers (621.2)	4	4
Pattern Making, Foundry and Machine Shop (694.9-725.43)	3	1
Machine Design (620.4)	2	2
General Economics (331)	2	4
Thermodynamics and Gas Engines (536.6-536.2)	2	2
Mechanical Drafting (744b)	2	2
Psychology (150)	2	4
Industrial Cooperation	44	10

Fourth Year		
Industrial Corporations (620.05)	4	6
English (820c)	1	1
Gas Power Plant and Motor Car (621.4)	2	2
Rapid Production Machinery (338.4)	2	2
Hydraulics (532)	6	3
Engineering Works Management (620.06)	2	2
Refrigeration (621.5)	2	2
Engineering Ethics (620.07)	1	1
Prime Movers (621.2)	2	2
Contracts and Specifications (620.03)	2	2
Electrical Engineering (621.3)	3	3
Pumps and Compressors (621.6)	2	2
Machine Design (Advanced) (620.04a)	2	2
Cooperation	44	10