

THE CITY COLLEGE – GROVE SCHOOL OF ENGINEERING

**Electrical Engineering Curriculum
FALL 2026 - SPRING 2027**

Math 20100 Calculus I Pre: Math 19500 (C min.) 4 cr.	Chem 10301 General Chemistry Pre: Math 19500 4 cr.	Engr 11000 Freshman Composition 3 cr.	Engr 10100 ⁷ Engineering Design Pre/Co: Math 19500 (C min) 1 cr.	Liberal Arts ⁴ (10000 or higher) 3 cr.	Liberal Arts ⁴ (10000 or higher) 3 cr.
Math 21200 Calculus II Pre: Math 20100 (C min) 4 cr.	Phys 20700 General Physics I Pre/Co: Math 20100 4 cr.		CSc 10200 Introduction to Computing Pre: Math 19500 (C min) Pre/Co: Math 20100 (C min.) 3 cr.	Engr 21007 Writing for Engineering Pre: Engr 11000 3 cr.	Liberal Arts ⁴ (10000 or higher) 3 cr.
Math 21300 Calculus III Pre: Math 21200 (C min) 4 cr.	Phys 20800 General Physics II Pre: Phys 20700 Pre/Co: Math 21200 4 cr.	Engr 20400 Electrical Circuits Pre/Co: Phys 20800 (C min), Math 21300 (C min) 3 cr.		EE 21000 Switching Systems Pre/Co: Math 21200 (C min) 3 cr.	Engr 10300 Computer-Aided Analysis Tools for Engineers Pre: Math 20100 (C min) 2 cr.
Math 39100 Differential Equations Pre: Math 21200+21300 (C min) 3 cr.	Math 34600 Lin. Algebra Pre/Co: Math 21300 3 cr.	EE 20500 Linear Systems I Pre: Engr 10300, Engr 20400 Pre/Co: Math 39100 3 cr.	EE 22100 EE Lab I Pre: EE 21000 & Engr 20400 Pre/Co: Engr 10300 1 cr.	EE 24100 Electronics I Pre: Phys 20800 (C min) Pre/Co: EE 20500 & EE 21000 3 cr.	EE 31100 Probability & Statistics Pre: Math 21300 (C min) 3 cr.
EE 30600 Linear Systems II Pre: EE 20500 3 cr.	Phys 32300 Quantum Mechanics for Engr Pre: Phys 20800, Math 39100 & Math 34600 3 cr.	EE 32200 EE Lab II Pre: EE 22100 & EE 24100 1 cr.	EE 33000 Electromagnetics Pre: Math 39100 (C min.), Math 34600 (C min.) & Phys 20800 (C min.) 3 cr.	EE Restricted Elective See the list below 3 cr.	EE 25900 Programming for EE Pre: CSc 10200 & Engr 10300 Pre/Co: Math 39100 (C min.) & Math 34600 (C min.) 4 cr.
EE 31200 Communication Theory Pre: EE 20500 & EE 31100 3 cr.	EE 42500 Computer Engineering Lab Pre: EE 22100 Pre/Co: EE 34400 or [CSc 21000 & CSc 34200] 1 cr.	Lecture Electives See the list below 3 cr.	EE 33900 Semiconductor Materials & Devices Pre: EE 33000, Phys 32300 3 cr.	EE 34400 Digital Computer Systems Pre: EE 21000 Pre/Co: EE 25900 3 cr.	Lecture Elective See the list below 3 cr.
Engr 27600 Engineering Economics Pre: Math 20100 (C min.) 3 cr.	Lecture Electives See the list below 3 cr.	EE Restricted Elective See the list below 3 cr.	Liberal Arts ⁴ (10000 or higher) 3 cr.	Liberal Arts ⁴ (20000 or higher) 3 cr.	EE 59866 Senior Design Project I Pre: EE 25900, EE 30600, EE 31200, EE 32200, EE 33900, EE 34400, EE 42500 3 cr.
Lecture Electives Chem 10401: Gen. Chem. II (C min) Csc 31800: Internet Programming Csc 34200: Computer Organization Math 32800: Num Analysis Engr 10600: Appl. Algebra (GPA 2.75) Engr 11100: Engr Anal (GPA 2.75) Engr 11200: Complex Var. (GPA 2.75) Engr 22800: AI & Machine Learn. for Engr Engr 23000: Thermodynamics Engr 30100: Intro to Sat Remote Sens EE 33300: Antennas & Fiber-Optics EE 33700: Cybersecurity Operations EE 34200: Electronics II EE 35700: Electric Power Engr EE 37100: Control & Feedback Sys. EE 43800: Mgt Concepts for Engr EE 44100: Solid State Devices EE 45000: Microwave Networks EE 45100: Comm. Electronics 6 cr.		(2 courses) – See Note 5 below EE 45300: Digital Signal Proc EE 45400: Phys Electronics EE 45500: Elem. of Power System EE 45600: Elements of Ctrl Theory EE 45700: Digital Integ Circuit EE 45800: Introd. to Lasers EE 45900: Microprocessors EE 46000: Data & Computer Comm. EE 46200: Photonic Engr EE 46300: Wireless Comm. EE 46400: VLSI Design EE 47100: Intro to Digital Image Proc. EE 47200: Digital Design, Verilog EE 51000: Independent Study EE 59804: Power Syst Control Gen EE 59838: Neural Ntwrks/Deep Learn EE 59865: IP Routing EE 59889: Cybersecurity Operations EE 59892: AI in Cybersecurity Lab Phys 45200: Adv. Optics	Lab Elective (2 courses) Csc 34300: Comp. Syst. Design Lab (co: Csc 34200) EE 32300 : EE lab III (pre: EE 32200 & EE 34200) EE 42100: LAN Lab (pre: EE 22100, pre/co: EE 46000) EE 42200: Comm. Syst. Design (pre: EE 22100 & EE 31200) EE 42300: Microwave (pre/co: EE 45000) EE 42600: Control Lab (pre: EE 22100, pre/co: EE 37100) EE 42700: Digital Sys. (pre: EE 34400 or Csc 21000 & Csc 34200) EE 42800: Photonics Lab (pre: EE 33000) EE 42900: Solid State (pre/co: EE 44100) 2 cr.	Lecture Elective (1 course) See the list 3 cr.	EE 59867 Senior Design Project II Pre: EE 598.66 3 cr.
EE Restricted Electives (As instructed above choose 2 of 4 courses listed below) EE 33300: Antennas & Fiber-Optics (Pre: EE 33000) EE 34200: Electronics II (Pre: EE 24100) EE 37100: Control & Feedback Sys. (Pre: EE 205; Math 39100 & Math 34600 (both C min)) EE 44100: Electronic Devices & Semiconductor Materials (Pre: EE 33900)					

- The latest version of the curriculum sheet supersedes any curriculum and pre-/co-requisite information in the Undergraduate Bulletin or online.**
- “C” Passing Grade Requirement:** Courses in shaded area (■) require a minimum passing grade of “C.”
- Skills tests:** Certain students may be required to pass CUNY Assessment Tests in one or more subjects within 1 or 2 years of admission.
- General Education / Liberal Arts Requirements:** EE students must take five approved courses and Engr. 27600 (Engineering Economics) for a total of 18 credits (six courses) of which at least 6 credits (two courses) must be at the 20000 level or higher. A list of approved courses can be viewed at https://www.ccnycuny.edu/engineering/gsoe-liberal-arts?srsId=AfmBOoqE-Sl-eY4trKk3Jz3ESuogAwHWg45W5Vj_8RMLRIHtFzteq1m7
- Lecture Elective Requirements:** Total 6 courses (18 credits) with at least 3 courses (9 credits) from EE courses.
- Other Graduation Requirements:** Apply for graduation during registration for the last semester. Minimum GPA of 2.00. Minimum QPA of zero. Residency Requirement: 36 credits of 30000-level or higher Electrical Engineering courses taken at CCNY.
- Transfer students** with credit for Math 21200 are considered too advanced for Engr 10100. They should take a 1-credit advanced EE lab instead.
- Program Changes:** Substitution of other courses for required courses must be approved by the Chair of the Electrical Engineering Department (ST-602) and the Associate Dean of the Office of Undergraduate Affairs (ST-209).

Total Credits: 133