

Computer Engineering Curriculum Spring 2008

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| Math 20100 Calculus I Pre: Math 19500 (min. C) 3 cr. | General Chemistry Chem 10301 Pre/Co: Math 19500 4 cr. | Engl 11000 Freshman Composition 3 cr. | Engr 10100⁶ Engineering Design I Pre/Co: Math 19500 (min. C) 1 cr. | 2 Liberal Arts⁴ (10000 or higher) 6 cr. |
| Math 20200 Calculus II Pre: Math 20100 (min. C) 3 cr. | Phys 20700 General Physics I Pre/Co: Math 20200 4 cr. | CSc 10200 Introduction to Computing Pre: Math 20100 (min. C) 3 cr. | CSc 10400 Discrete Math Structure I Pre: Math 20100 (min. C) 3 cr. | Engr 10300 Analysis Tools for Eng'rs Pre: Math 20100 (min. C) 2 cr. |
| Math 20300 Calculus III Pre: Math 20200 (min. C) 4 cr. | Phys 20800 General Physics II Pre: Phys 20700 Pre/Co: Math 20300 4 cr. | EE 21000 Switching Systems Pre: Math 20200 (min. C) 3 cr. | Engr 20400 Electrical Circuits Pre/Co: Phys 20700 (min. C), Math 20300 (min. C) 3 cr. | CSc 21200 Data Structures Pre: CSc 10200 & CSc 10400 3 cr. |
| Math 39100 Differential Equations Pre: Math 20300 3 cr. | Math 39200 Linear Algebra & Vector Pre: Math 20300 3 cr. | EE 20500 Linear Systems I Pre: Engr 20400 Pre/Co: Engr 10300, Math 39100 (Cmin) 3 cr. | EE 24100 Electronics I Pre: Phys 20800 (min. C); Pre/Co: EE 20500 & EE 21000 3 cr. | EE 31100 Probability & Rand. Proc. Pre: Math 20300 3 cr. |
| EE 22100 EE Lab I Pre: EE 21000, Engr. 20400 Pre/Co: Engr 10300 1 cr. | EE 30600 Linear Systems II Pre: EE 20500 3 cr. | EE 31200 Communication Theory Pre: EE 31100 3 cr. | EE 33000 Electromagnetics Pre: Math 39100 (min. C), Math 39200 (min. C) & Phys 20800 (min. C) 3 cr. | CSc 21000 Assembly Language Pre: CSc 10200 3 cr. |
| EE 32200 EE Lab II Pre: EE 22100 & EE 24100 1 cr. | EE 45700 Digital Integrated Circuits Pre: EE 24100 3 cr. | CSc 33200 Operating Systems Pre: CSc 22000 3 cr. | Csc 34300 Computer Organize Lab Coreq: Csc 34200 1 cr. | Csc 32200 Software Engineering Pre: Csc 22000 & Csc 22100 & Engr 21007 4 cr. |
| EE 42500 Computer Engineering Lab Pre: EE 44400 or [CSc 21000 (min. C) & CSc 34200] 1 cr. | Csc 59866 Senior Design Project I Pre/Co: Seniors, Perm Two Consecutive Semesters 3 cr. | EE 59866 (59868) Senior Design Project I Pre: EE 32200 Pre/Co: Any EE lab Elective CpE majors do not require EE Lab Elective. Two Consecutive Semesters. | Eng'ng Sci. Elective Engr 23000: Thermo, EE 33900: Semicond. Mat's & Devices 3 cr. | EE 46000 Computer Communic. Pre: EE 31200 3 cr. |
| Comp Engr Elective (from EE Lists) 3 cr. | Csc 59867 Senior Design Project II Pre: Csc 59868 3cr. | EE 59867 (59869) Senior Design Project II Pre: EE 59866 3 cr. | Practice / Ethics Issues (1 Course) CSc 37500: Social Iss. Comp. Engr 27600: Eng. Economics EE 43800: Mng't Conc. Eng Engr 30000: Impact Bio Tech Phil 34902: Computer Ethics 3 cr. | 2 Liberal Arts⁴ (20000 or higher) 6 cr. |

| Computer Science Electives | | | | | | Electrical Engineering Electives | | | |
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| Csc 30100 | Csc 41200 | CSc 43200 | CSc 44600 | CSc 47100 | CSc 47900 | BME 50500 | EE 44100 | EE 45300 | EE 46000 |
| Csc 30400 | CSc 42000 | CSc 43500 | CSc 44800 | CSc 47200 | CSc 48000 | EE 33300 | EE 45100 | EE 45400 | EE 46200 |
| Csc31100 | CSc 42200 | CSc 43800 | CSc 45000 | CSc 47300 | CSc 48600 | EE 33900 | EE 45200 | EE 45600 | EE 46300 |
| Csc 32200 | CSc 42800 | CSc 44000 | CSc 45400 | CSc 47500 | Csc 51003 | EE 34200 | | EE 45800 | EE 46400 |
| Csc 33500 | CSc 43000 | CSc 44200 | CSc 47000 | CSc 47800 | | EE 35700 | | EE 45900 | EE 51000 |
| Csc 33600 | | | | | | EE 37100 | | EE 51003 | |

- New freshmen engineering students are no longer required to take **NSS 10000: New Freshman Seminar** (0 cr.).
- "C" Passing Grade Requirement:** Courses in shaded area (■) require a minimum passing grade of "C".
- CUNY CPE, ACT & SKAT Requirements:** Students must pass the CUNY/ACT in Reading and Writing and CUNY Mathematics Skills Assessment Test (SKAT) before completing 61 credits. Students must pass the CUNY Proficiency Examination (CPE) before graduation.
- General Education / Liberal Arts Requirements:**
CpE students must take six approved courses (18 credits) of which at least two (6 credits) must be at the 20000 level or higher. The six courses must satisfy at least three of the four approved general education clusters.
Only courses in these four clusters are eligible: **Professional and Ethical Responsibilities Cluster** (Outcome f), **Communication Cluster** (outcome g), **Global and Societal Context Cluster** (outcome h), and **Contemporary Issues Cluster** (Outcome j). A list of approved courses is posted on the School of Engineering web site at <http://www.cuny.cuny.edu/engineering/genreq.html> and can be viewed at the Office of Undergraduate Affairs (ST-209) or the Office of Student Programs (ST-2M). This list is subject to periodic review and updates.
- Other Graduation Requirements:** Apply for graduation during registration for the last semester. Minimum GPA of 2.00. Minimum QPA of zero. Pass CUNY Proficiency Exam (CPE). Residency Requirement: 36 credits of 30000-level or higher Computer Science or Electrical Engineering courses **taken at CCNY**.
- New Transfer Students** who have already completed the equivalent of Calculus II (Math 20200) should not take Engr 10100. They are required to complete an additional 1-credit advanced laboratory elective course from Computer Science or Electrical Engineering.
- Program Changes:** Substitution of other courses for required courses must be approved by the Computer Science Department (NAC 8/206) for CSc courses or Electrical Engineering Department (ST-602) for EE courses, and submitted in writing to the Office of Undergraduate Affairs (ST-209).
- Declaring Your Major:** Freshmen, sophomores, juniors and new transfer students with the code **008** (Waiting for Computer Engineering) who have taken calculus I, or who are currently taking calculus I, should file for the code **F16** (Computer Engineering). For an application and submission of the form go to room ST-209 Steinman Hall.
- Note, that the latest version of the program curriculum sheet supersedes the curriculum reported in the Undergraduate Bulletin.**

Total Credits: 134 - 135.