

**THE CITY COLLEGE – SCHOOL OF ENGINEERING
CHEMICAL ENGINEERING CURRICULUM**

August 6, 2020

Fall 2019 - Spring 2020

Math 20100 Calculus I Pre: Math 19500 (C min.) 4 cr.	Chem 10301 General Chemistry I Pre: Math 19500 (C min.) 4 cr.	Engl 11000 Freshman Composition 3 cr.	Liberal Arts^{4a} 3 cr.		Liberal Arts^{4a} 3 cr.
Math 21200 Calculus II Pre: Math 20100 (C min.) 4 cr.	Chem 10401 General Chemistry II Pre: Chem. 10301 (C min.) 4 cr.	Phys 20700 General Physics I Pre/Co: Math 21200 4 cr.	Liberal Arts^{4a} 3 cr.		Liberal Arts^{4a} 3 cr.
Math 21300 Calculus III Pre: Math 21200 (C min.) 4 cr.	Chem 26100 Organic Chemistry I Pre: Chem 10401 (C min.) 3 cr.	Phys 20800 General Physics II Pre: Phys 20700 Pre/Co: Math 21300 4 cr.	ChE 22800 (Fall only) Intro. to Chem. Eng. Prin. & Prac. Pre: Chem. 10401 (C min.) Pre/Co: Math 21300 (C min.) 5 cr.		
Math 39100 Differential Equations Pre: Math 21300 (C min.) 3 cr.	Chem 26200 Organic Chemistry Lab I Pre: Chem. 10401 (or 10800) & Chem 26100 Pre/Co: Chem. 26300 2 cr.	Chem 26300 Organic Chemistry II Pre: Chem. 26100 (C min.) 3 cr.	ChE 31100 (Spring only) Analysis of Chemical Processes Pre: Chem. 10401 (C min.); Math 21300 (C min); Phys 20700 (C min) 3 cr.	ChE 22900 (Spring only) Chem. Eng. Thermo. II Pre: Chem. 10401 (C min.), Phys 20700 (C min.) Pre/Co: Math 39100 3 cr.	Liberal Arts^{4b} (20000 or higher) 3 cr.
Math 39200 Linear, Algebra, & Vector Analysis. Pre: Math 39100 (C min.) 3 cr.	Statistics (Math, Science, Or Engineering) Math 37500 (Elem. Prob. Stat.) or EE 31100 (Prob. & Stat.) 4 cr. or 3 cr.	Technical Elective⁵ See Note 5 below. 3 cr.	ChE 34100 (Fall only) Transport Phenomena I Pre: Math 39100 (C min.), ChE 22900 3 cr.	ChE 33000 (Fall only) Chem. Eng. Thermo. II Pre: ChE 22900, ChE 31100, Math 39100 (C min) Pre/Co: ChE 22800 (or CE 26400 for ESE majors only), Phys 20800 3 cr.	Engl 21007 Writing for Engineering Pre: Eng 11000 or FIQWS 3 cr.
Chem 33200 Physical Chemistry II Pre: ChE 22900, ChE 33000 3 cr.	ChE 31000 (Spring only) Intro. to Materials Science Pre: ChE 22900 Pre/Co: ChE 34100 3 cr.	ChE 34200 (Spring only) Transport Phenomena II Pre: ChE 34100, Math 39200 3 cr.	ChE 34600 (Spring only) Transport Operations Pre: ChE 34100 Pre/Co: ChE 34200 4 cr.	ChE 34500 (Spring only) Separation Operations Pre: ChE 22800 Pre/Co: ChE 33000, ChE 34200 3 cr.	
Technical Elective⁵ See Note 5 below. 3 cr.	ChE 43200 (Fall only) Chemical Reactions Pre: ChE 34200 & ChE 33000 3 cr.	ChE 47900 (Fall only) Process & Control Pre: ChE 34500 & ChE 34600 Pre/Co: ChE 43200 3 cr.	ChE 49500 (Fall only) Techn. Chem. Engr. Design Pre: ChE 22900, ChE 33000, ChE 34500, ChE 34600 Pre/Co: ChE 43200, ChE 47900 3 cr.	ChE 46200 (Fall only) Separ. Operns. & Contr. Lab Pre: ChE 34500, ChE 34600 3 cr.	
Technical Elective⁵ See Note 5 below. 3 cr.	Technical Elective⁵ See Note 5 below. 3 cr.	Technical Elective⁵ See Note 5 below. 3 cr.	ChE 49600 (Spring only) Chemical Eng. Design Project Pre: ChE 43200, ChE 47900 & ChE 49500 3 cr.	Liberal Arts^{4b} (20000 or higher) 3 cr.	

- 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.
- Liberal Arts electives: ChE students need to take two kinds of Liberal Arts requirements:
 - The first is the Pathways "Flexible core" Liberal Arts requirement. Students select one course from these 4 categories: Creative Expression (CE), World Culture & Global Issues (WCGI), Individual & Society (IS), U.S. experience in its diversity (US). The full list can be found here: <https://www.cuny.cuny.edu/engineering/flexible-core>
 - The second is the GSOE "College Option" Liberal Arts requirement. These should be taken after completing the Flexible core. For the College option, ChE students need two 200-level or higher courses in any subject from the "College Option" list: <https://www.cuny.cuny.edu/chemeng/undergraduate>
- Technical Elective Requirements: Five (5) technical electives. Technical electives must include at least 6 credits of engineering courses (CHE, ENGR, or another branch of engineering). Any Math, Science, or Engineering course that is level 30000 or higher will be accepted as a technical elective. In addition ENGR 27600 (Engineering Economics) will be accepted.
- Other Graduation Requirements: Apply for graduation during registration for the last semester. Minimum GPA of 2.00. Minimum QPA of zero. Residency Requirement: 33 credits of 30000-level or higher Chemical Engineering courses taken at CCNY (a maximum of 6 credits may be in non-ChE Technical Elective courses).
- New Transfer Students: Please be sure to see your general advisor each semester. For more information contact the Office of Undergraduate Affairs (ST-209, 212-650-8020)
- Program Changes: Substitution of other courses for required courses must be approved by the Chair of the Chemical Engineering Department (ST-322), and the Associate Dean of the Office of Academic Affairs (ST-209).

Total Credits: 132 - 133.