A.S. ENGINEERING SCIENCE
DEPARTMENT: Physical Sciences
TOTAL CREDITS: 66-70

Requirements for Matriculants

COLLEGE REQUIREMENTS

• Successful completion of CUNY Tests in Reading and Writing and the COMPASS Math Skills Test with passing examination scores, unless otherwise exempt, or developmental courses may be required.

• One (1) Writing Intensive course in any discipline from any category below is required. Participation in a Learning Community that includes ENG 1200 or 2400 also satisfies this requirement.

• Two (2) Civic Engagement experiences—satisfied by CE-Certified or CE-Component courses or approved outside activity. See Graduation Requirements in this catalog.

CUNY CORE:
Courses approved at the time of this catalog’s publication for CUNY Flexible Core, Groups A-D, are listed in the General Education: CUNY Pathways section on page 43, and identified in the Course section, beginning on page 99.

REQUIRED CORE
- ENG 1200.............................................................3 credits
- ENG 2400.........................................................................3
- Mathematical & Quantitative Reasoning .....................4
  - MAT 1500+ or MAT 1600
- Life and Physical Sciences: General Chemistry I ..............4
  - CHM 1100 or CHM 1200 or PHY 1300 or PHY 1400

FLEXIBLE CORE
One course from each Group A – E plus an additional course from Group E. No more than two courses in the same discipline.

A. World Cultures and Global Issues
B. U.S. Experience in its Diversity
C. Creative Expression
D. Individual and Society
E. Scientific World
  - MAT 1500+ or MAT 1600 or CS 1200+ or CHM 1100
  - or CHM 1200 or PHY 1300 or PHY 1400
  (if not taken for Required Core)

Plus another course selected from Group E list above
  (if not taken for Required or Flexible Core)

DEGREE REQUIREMENTS §
If not taken for the CUNY Required Core or Flexible Core, the following are required:
- Calculus I and II and III (MAT 1500 and MAT 1600 and MAT 2100)..........................................................12 credits
- Differential Equations (MAT 5500).................................................3
- Linear Algebra (MAT 5600).......................................................4
- Introduction to Computing (CS 1200)........................................4
- General Chemistry I and II (CHM 1100 and CHM 1200) .....8
- Advanced General Physics I and II (PHY 1300 and PHY 1400).....................................................................8
- Engineering Design (EGR 2100)...............................................3
- Introduction to Electrical Engineering (EGR 2200).........3
- Introduction to Engineering Thermodynamics (EGR 2300)......3

+ COMPASS scores of 35 on Part I, 55 on Part II, 60 on Part III and 51 on Part V or pre-requisite courses required.

◆ This program has a waiver to require particular courses in the Common Core, otherwise more than the minimum credits for the degree may be necessary.

§ Consultation with the Department Advisor is required.