

# A.S. ENGINEERING SCIENCE

Total credits: 66-70

## Requirements for Matriculants

### COLLEGE REQUIREMENTS

Successful completion of CUNY/ACT Tests in Reading and Writing and the COMPASS Math Skills Test with passing examination scores or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 01200.....	3 credits
ENG 02400.....	3
HE 01400 .....	1

A passing score on the CUNY Proficiency Exam (CPE) is required for graduation and must be taken following the completion of 45 credits.

### DEPARTMENT REQUIREMENTS §

General Chemistry I and II (CHM 01100, 01200) .....	8 credits
+Calculus I, II and III (MAT 01500, 01600, 02100).....	12
Differential Equations (MAT 05500).....	3
Linear Algebra (MAT 05600).....	4
Introduction to Computing (CS 01200).....	4
Advanced General Physics I and II (PHY 01300, 01400).....	8
Engineering Design (EGR 02100).....	3
Introduction to Electrical Engineering (EGR 02200).....	3
Introduction to Engineering Thermodynamics (EGR 02300) .....	3

### GENERAL EDUCATION REQUIREMENTS — 9 CREDITS

A minimum of three (3) credits from Group A, three (3) credits from Group B, and 3 credits from either Group A or Group B in a different discipline. Credits from Group C satisfied by department requirements.

**Group A** — ARTS AND HUMANITIES.....3 - 6 credits

Disciplines: *Art - Foreign Language - Literature – Media & Film Studies – Music - Philosophy -  
Speech - Theatre Arts*

Excluded are Art studio, Music studio, Theatre production & skills courses

**Group B** — BEHAVIORAL AND SOCIAL SCIENCES .....3 - 6 credits

Disciplines: *Anthropology – Economics – History – Political Science – Psychology – Sociology*

**Group C** — MATHEMATICS AND SCIENCES — *Satisfied by Department Requirements*

**ELECTIVES:** 3 – 6 sufficient to satisfy total of 66 – 70 credits

§ Consultation with the Department Advisor is required.

• This program is within the Physical Sciences Department.

+ Prerequisites must be met or additional credits may be required.