

# COMPUTER SYSTEMS ENGINEERING (MINOR)

## Program Description

Engineering challenges of the 21st century are varied, complex, and cross-disciplinary. Ranging from the nano-scale to mega-projects, they are characterized by sustainability concerns, environmental and energy constraints, global sourcing, and humanitarian goals. In the face of global competition, dwindling natural resources and the complexity of societal needs, the leaders of technological enterprises will be those who can innovate, are inventive and entrepreneurial, and understand how technology is integrated within society.

## Program Requirements

Course	Title	Credits
CSCI-SHU 11 or CSCI-SHU 101	Introduction to Computer Programming Introduction to Computer and Data Science	4
CENG-SHU 201	Digital Logic	4
EENG-SHU 251	Circuits	4
Select one of the following:		4
CENG-SHU 202	Computer Architecture	
CSCI-SHU 350	Embedded Computer Systems	
Select one of the following:		4
CSCI-SHU 350	Embedded Computer Systems	
CSCI-SHU 308	Computer Networking	
CSCI-SHU 360	Machine Learning	
CENG-SHU 202	Computer Architecture	
<b>Total Credits</b>		<b>20</b>

## Policies

### Minor Policies

Students may minor in subjects outside of their major. A minor in a secondary subject enables a student to acquire a useful understanding of concepts and analysis without the same degree of coverage as would be obtained in a major. A grade of C or better is required for a course to be counted toward a minor. If a student fails a course required for the minor, the course must be retaken at NYU; a course taken outside the University will not normally be allowed to substitute for a minor requirement. No course for the minor may be taken as pass/fail. Students may use Core Curriculum classes to fill minor requirements but at least 12 credits of the minor must be unique to the minor, meaning that it is not double-counted with any other major, minor, or core requirement.

Additionally, no single course may be used to meet more than two requirements.

### NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

### NYU Shanghai Policies

Additional academic policies can be found on the NYU Shanghai Academic Policies page (<https://bulletins.nyu.edu/undergraduate/shanghai/academic-policies/>).