The Computer Science Major is open to all NCAS and UCN students, and as a second major to other Rutgers Newark undergraduates. A total of 60 credits is required for the Computer Science Major.

**Required Courses**
- 21:198:101 – Computers & Programming I (3 credits)
- 21:198:102 – Computers & Programming II (3 credits)
- 21:198:251 – Computer Organization (3 credits)
- 21:198:280 – Programming Language Concepts (3 credits)
- 21:198:288 – Intensive Programming in Linux (3 credits)
- 21:198:335 – Data Structure & Algorithm Design (3 credits)
- 21:198:435 – Advanced Data Structures & Algorithm Design (3 credits)
- 21:198:490 – Software Engineering (3 credits)
- 21:198:491 – Computer Science Project (3 credits)

**Additional Computer Science Electives**
9 credits at the 300 – 400 course level. No more than 3 credits may be taken from 21:198:493, 494, 495, and 496. Computer Science courses are the preferred electives, but Information Systems courses at the 300 – 400 course level are also allowed.

Information Systems 247 is also a valid Computer Science elective.

Information Technology courses do not count as Computer Science electives.

**Other Required Courses**
- 21:640:135 – Calculus I (4 credits)
- 21:640:136 – Calculus II (4 credits)
- 21:640:235 – Calculus III (4 credits)
- 21:640:237 – Discrete Structures (3 credits)