Requirements for the Bachelor’s Degree in Computer Science and Engineering

Mathematics Courses: Mathematics 2A-B, 2D, 2J, 6A-B, 6C or 3A, and 67.

Basic Science Courses: Physics 7A-B-D, 7LA-LB-LD.

Engineering and Computer Science Topics Courses: Students must complete a minimum of 72 units of engineering topics, which includes 24 units of engineering design, and a minimum of 60 units of computer topics, which includes 36 units of upper-division computer topics. The following courses must be completed:


Students select, with the approval of a faculty advisor, any additional engineering and computer topics courses needed to satisfy school and department requirements.

Tracks: Students must complete one of the tracks listed below:

Algorithms: Students complete ICS 163, ICS 164.

Artificial Intelligence: Students complete ICS 171 and one course from ICS 172, ICS 173, ICS 175A, or ICS 175B.

Embedded Systems: Students complete ICS 53, ICS 53L.

Parallel Computing: Students complete EngrECE 137, ICS 158.

(The nominal Computer Science and Engineering program will require 190 units of courses to satisfy all university and major requirements. Because each student comes to UCI with a different level of preparation, the actual number of units will vary.)

NOTE: Students majoring in Computer Science and Engineering may not complete the major in Computer Engineering or the major or minor in Information and Computer Science.