

Electrical and Computer Engineering Department
Bachelor of Arts in Electrical Engineering

The BA degree provides a basic foundation in electrical and computer engineering that is highly flexible, permitting a student to tailor the program to his or her interests, be they broad or highly focused. Because of its flexibility and large number of free electives, the BA can be combined easily with courses from other departments to create an interdisciplinary program. This may be particularly appropriate for students planning further study in law, business, or medicine.

See the General Announcements for the general university degree requirements. A BA program must have a minimum of 120 semester hours, and include the following courses. Students who place out of required courses without transcript credit must substitute another course *in the same area*. A course can satisfy only one program requirement. For the latest information and program planning forms, consult the ECE Web site www.ece.rice.edu.

University Distribution Requirements: Groups I and II

Mathematics and Science:

MATH 101, 102, MATH 212 or CAAM 353, CAAM 335 or MATH 355,
and one from ELEC 331, MATH 355, MATH 381, or CAAM 353
PHYS 101, PHYS 102, ELEC 261 or CHEM 121

ECE Core: ELEC 220, 241, 242, 305 and 326

Computation: COMP 210 or CAAM 210

Laboratory: One from: ELEC 201, 327, 342, 433, 434, 442, 443, 444, 445, 465, or 494

Specialization: A minimum of 4 Specialization Area courses, including 2 or more in one area, and courses from at least two areas. Each course must be at least 3 semester hours. The department may add or delete courses from the areas, and graduate courses and equivalent courses from other departments may be used to satisfy area requirements with permission. Consult with department advisors and the ECE Web site for the latest area courses.

Computer Engineering: COMP 212, ELEC 322, 421, 422, 424, 425, 426, 427
428, 429, and COMP 430

Systems: Control , Communications & Signal Processing

ELEC 301, 302, 381, 430, 431, 432, 434, 436, 439, 446, 481, 482, 485, 486,
534, and 535

Electronic Circuits & Devices: ELEC 342, 435, 442, 443, 444, 445, 462, and 561

Quantum Electronics: PHYS 202, ELEC 306, 361, 462, 463, 464, 465, 563,
564, 567, 568, and 569

Unrestricted Electives: Additional courses to provide the BA minimum requirement of at least 120 semester hours.