The senior elective program must meet the following requirements:
- at least 8 courses, denoted by \( \bullet \);  
- at least 32 units;  
- at least 2 sequences;  
- at least 1 design sequence.

Sequences are denoted by: \( \text{or} \) \( \text{or} \). Design sequences are denoted by: \( \text{or} \) \( \text{or} \) and also count towards the sequence requirement. Faculty advisors must determine, in advance, the eligibility of a proposed elective program.

There may be new courses which constitute EE electives and EE elective sequences. Consult your advisor for more information.

This chart has been simplified and is only for general guidance. Please refer to the UCSB catalog for definitive information on the course prerequisites and degree requirements.

Prerequisites are shown by arrows.

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Network programming  
Distributed systems  
Computer aided VLSI design  
Peripheral, hardware, and software interfaces  
Embedded real-time systems  
Computer engineering project  
Electrical engineering project  
MEMS  
Integrated circuit design and fabrication  
VLSI and Digital ICs  
High speed mixed ICs  
Communication electronics  
Power electronics  
Multimedia  
Communication theory  
Image processing  
Computer vision  
Visual system analysis  
Automatic and digital control systems  
Chaotic dynamics  
Robotics  
MEMS  
Integrated circuit design and fabrication  
VLSI and Digital ICs  
High speed mixed ICs  
Communication electronics  
Power electronics  
Multimedia  
Communication theory  
Image processing  
Computer vision  
Visual system analysis  
Automatic and digital control systems  
Chaotic dynamics  
Robotics  
Electromagnetic fields, waves and optics  
Quantum, solid-state & opto-electronic devices