**BS Electrical Engineering Requirements 2018**

Updated: Nov-18

*Reference document only, the official 4-year plan is in the University Catalog. More information found at advise.eecs.wsu.edu*

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**Course Number**
**Course Name**
**Certification Course**
**Number of credits**

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### Freshman Year
- **Math 171**
  - Calculus 1 [QUAN]
  - 4
- **Math 172**
  - Calculus 2
  - 4
- **Math 220**
  - Linear Algebra
  - 2
- **Phys 201**
  - Physics 1
  - 4
- **CptS 121/131**
  - Program Design
  - 4
- **Hist 105**
  - Contemporary Issues [ROOTS]
  - 3

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### Sophomore Year
- **Math 273**
  - Calculus 3
  - 2
- **Econ 101/102**
  - Micro or Macroeconomics
  - 3
- **Phys 202**
  - Physics II
  - 4
- **EE 120**
  - Data Structures
  - 4
- **Engl 101/105**
  - Composition [WRTG]
  - 3
- **EE 214**
  - Logic Circuits
  - 4

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### Junior Year
- **Math 315**
  - Differential Equations
  - 3
- **EE 261**
  - Electric Circuits
  - 3
- **EE 262**
  - Circuits Lab
  - 1
- **Chem 105**
  - Principles [PSCI]
  - 4
- **EE 234**
  - Microprocessors
  - 4
- **EE 302**
  - Professional Skills
  - 3

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### Senior Year
- **EE 331**
  - Field and Waves
  - 3
- **EE 321**
  - Electric Circuits 2
  - 3
- **EE 311**
  - Electronics
  - 3
- **EE 352**
  - EE Lab 1
  - 3
- **Engr Sci I**
  - One of 4
  - 3
- **Engr Sci II**
  - One of 4
  - 3

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**Track Electives:** Students follow one of five tracks: 15 credits are required for each track. Electives within a track must be chosen from the list of approved technical electives (ATE). **Power Track** required: E E 362 [M], 491, at least 6 credits from E E 486, 489, 492, 493, 494, and remaining credits from list of ATE; **Microelectronics Track** required: E E 351, 362 [M], 489, with a maximum of 3 credits from 488 and 499 combined; **Systems Track** required: E E 464, 489, at least one from E E 432, 451, and one from E E 351, 432, 451, 470, and remaining credits from list of approved technical electives; **General Track** at least one from E E 324 [M], 351, 362 [M], 489, and remaining credits from list of ATE with a minimum of nine credits 400-level E E courses; or **Computer Engineering Track** required: E E 434, 466, at least one from E E 324 [M], 334, 431, 476, CptS 360, and remaining credits from list of ATE with a minimum of three credits 400-level E E courses.

**Technical Electives** approved for Power Track, General Track (minimum 9 credits 400-level E E courses), and Computer Engineering Track (minimum 3 credits 400-level E E courses) include: ASTRONOM 435, CE 463, CHEM 331, 333, 345, MATH 320 [M], 325, 340, 364, 401 [M], 402 [M], 415, 420, 421 [M], 440, 441, 448, 453, 464, 466, ME 304, 401, MSE 402, 403, PHYSICS 303, 304, 320, 443, 450, and 463, or any 300-400-level CptS or E E course not used to fulfill other requirements.

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Apply for certification: advise.eecs.wsu.edu/ “C” or better in required courses O with 2.5 WSU GPA.