Students may apply for certification into the Bachelor of Science in Computer Engineering degree program after completion of the following courses with a grade of C or better: Chem 105; CptS 121, 122; EE 214; Math 171, 172, 216; Phys 201, 202. Required for certification.

No courses listed in this schedule of study may be taken on a pass/fail basis. All listed EE and CptS courses, pre-requisites to these courses, and required electives must be completed with a grade of C or better. This policy applies to transfer courses as well as courses completed at WSU.

Course descriptions, including prerequisites, are available in the WSU catalog: http://catalog.wsu.edu.

Requests for transfer credit for EECS courses must include a complete syllabus from the transfer institution.

### BS Computer Engineering Requirements (123 Hours)

#### First Semester 15 credits
- CptS 121 Program Design & Develop 4
- Engl 101 Composition [W] (GER) 3
- Chem 105 Chemistry [P] GER 4
- Math 171 Calc I [N] (GER) (Prereq Math 107) 4

#### Second Semester 15 Credits
- CptS 122 Data Structures (Prereq CptS 121) 4
- Math 172 Calculus II (prereq Math 171) 4
- Math 216 Discrete (Prereq Math 107, philo 201) 3
- Phys 201 Engineering Physics [P] GER (Prereq Math 171 with C or better) 4

#### Third Semester 15 Credits
- EE 214 Logic Circuits (Prereq Math 171 with C or better) 4
- Gened 110 or 111 World Civ [A] GER 3
- Math 273 Calculus III (Prereq Math 172) 2
- Math 220 Linear Algebra (Prereq Math 171) 2
- Phys 202 Engineering Physics [P] GER (Prereq Math 172 and Phys 201 both with C or better) 4

#### Fourth Semester 17 Credits
- EE 261 Electrical Circuits I 3
- EE 262 Electrical Circuits Lab 1
- EE 234 Microprocessor Systems (Prereq CptS 122 or EE 221; EE 214) 3
- Gened 110 or 111 World Civ [A] (GER) 3
- Math 315 Differential Equations (Prereq Math 273 & 220 both with C or better) 3
- CptS 223 Advanced Data Structures 3

**COMPLETE WRITING PORTFOLIO**

→ after 60 credit hours

#### Fifth Semester 16 Credits
- EE 311 Electronics 3
- EE 321 Electrical Circuits II (Prereq EE 261) 3
- EE 324 Fund of Digital Systems (Prereq EE 214) 4
- EE 352 EE Lab II (Prereq EE 311, 321, or c/l) 3
- Engl 402/403 Technical Writing [W] GER (Prereq English 101/105) 3

#### Sixth Semester 16 Credits
- EE 334 Computer Architecture (Prereq EE 234) 3
- Biological Science [B] GER 3
- Stat 360 Probability & Statistics (Prereq Math 172) 3
- Engineering Science Elective 1 3
- CptS 360 Systems Programming (Prereq CptS 223; CptS 260 or EE234) 4

#### Seventh Semester 14 Credits
- Senior Design Elective 2 3
- EE 415 Design Project Management (Prereq Senior standing, completion of Econ 101 or 102 and all required 300 level courses) 2
- CptE Technical Elective 3 3
- Arts/Hum Elective [H] or [G] GER 3
- EconS 101 or 102 [S] GER 3

#### Eighth Semester 15 Credits
- Arts/Humanities [HD] or Social Science [SD] 3
- EE 416 Elec Eng Design [M] [T] (Prereq EE 415, Engl 402/403) 3
- CptE Technical Elective 3 3
- CptE Technical Elective 3 3
- Intercultural [I,G or K] GER 3

**COMPLETE EXIT INTERVIEW AND SURVEY**

→ must be complete for degree to be awarded

*Elective courses are listed on the back.
1. Engineering Science Elective: Choose from EE 331, EE 341, ME 301, MSE 302.
   (Note: If either EE 331 or EE 341 is taken as an engineering science elective, it cannot also count as a technical elective.)

2. Senior Design Electives adhere to one of the following sequences:
   - EE 434 and EE 416: ASIC & Digital Systems
   - EE 466 and EE 416: VLSI Design
   - CptS 466 and EE 416: Embedded and Microcomputer Systems

3. Any of the following courses may be chosen to fulfill technical elective requirements:
   - EE 331, 341, 351, 431, 432, 434, 451, 464, 466, 470, 476, 489, 496
   - CptS 317, 322, 355, 422, 423, 430, 440, 442, 443, 450, 451, 452, 455, 460, 466
   - One only of Math 325, 340, 364, 415, 421, 440, 441, 448, 453, 464, 466