BS-CSE Prerequisite Flowchart, part 1

Key: Prerequisite = solid arrow (not vertical)
Alternative prereq = dashed arrow
Co-requisite = solid vertical arrow
Alternative co-req = dashed vertical arrow
Required for graduation as CSE = solid outline
CSE Senior elective = dashed outline

For students who entered CoE before Fall 2016:

ENGLWRIT 112
College Writing

CS 121
Intro Problem Solving (Java)

ECE 122
Intro Programming

ECE 211
Circuit Analysis I

ECE 221/124
Digital Systems

PHYS 151
Physics I

PHYS 152
Physics II

MATH 131
Calculus I

MATH 132
Calculus II

MATH 235
Linear Algebra

MATH 331
Differential Equations

ECE 242
Data Structures

ECE 250
Intro to Computation

ECE 232/331
Hardware Organization

ECE 321
Circuit Analysis II

ECE 322
Software Engineering

ECE 323
Electronics I

ECE 324
Electronics II

ECE 353
Comp. Systems Lab I

ECE 354
Comp. Systems Lab II

ECE 355
Comp. Systems Lab III

ECE 356
Comp. Systems Lab IV

ECE 357
Comp. Systems Lab V

ECE 358
Comp. Systems Lab VI

ECE 359
Comp. Systems Lab VII

ECE 360
Comp. Systems Lab VIII

ECE 361
Comp. Systems Lab IX

ECE 362
Comp. Systems Lab X

ECE 363
Comp. Systems Lab XI

ECE 364
Comp. Systems Lab XII

ECE 365
Comp. Systems Lab XIII

ECE 366
Comp. Systems Lab XIV

ECE 367
Comp. Systems Lab XV

ECE 368
Comp. Systems Lab XVI

ECE 369
Comp. Systems Lab XVII

ECE 370
Comp. Systems Lab XVIII

ECE 371
Comp. Systems Lab XIX

ECE 372
Comp. Systems Lab XX

ECE 373
Software Engineering

ECE 374
Networks & the Internet

ECE 375
Computer Architecture

ECE 376
Computer Networking

ECE 377
Computer Systems

ECE 378
Computer Organization

ECE 379
Computer Security

ECE 380
Computer Networks

ECE 381
Computer Systems

ECE 382
Computer Architecture

ECE 383
Computer Networking

ECE 384
Computer Systems

ECE 385
Computer Organization

ECE 386
Computer Security

ECE 387
Computer Networks

ECE 388
Computer Systems

ECE 389
Computer Architecture

ECE 390
Computer Networking

ECE 391
Computer Systems

ECE 392
Computer Organization

ECE 393
Computer Security

ECE 394
Computer Networks

ECE 395
Computer Systems

ECE 396
Computer Architecture

ECE 397
Computer Networking

ECE 398
Computer Systems

ECE 399
Computer Organization

ECE 400
Computer Security

ECE 401
Computer Networks

ECE 402
Computer Systems

ECE 403
Computer Architecture

ECE 404
Computer Networking

ECE 405
Computer Systems

ECE 406
Computer Organization

ECE 407
Computer Security

ECE 408
Computer Networks

ECE 409
Computer Systems

ECE 410
Computer Architecture

ECE 411
Computer Networking

ECE 412
Computer Systems

ECE 413
Computer Organization

ECE 414
Computer Security

ECE 415
Senior Design Project I

ECE 416
Senior Design Project II

MATH 131
Calculus I

MATH 132
Calculus II

MATH 235
Linear Algebra

MATH 331
Differential Equations

PHYS 151
Physics I

PHYS 152
Physics II

ENGIN 112
Intro. to ECE

ENGLWRIT 112
College Writing

CSE 121
Intro Problem Solving (Java)

ECE 212
Intro Programming

ECE 242
Data Structures

ECE 250
Intro to Computation

ECE 232/331
Hardware Organization

ECE 211
Circuit Analysis I

ECE 212
Circuit Analysis II

ECE 323
Electronics I

ECE 324
Electronics II

ECE 353
Comp. Systems Lab I

ECE 354
Comp. Systems Lab II

ECE 355
Comp. Systems Lab III

ECE 356
Comp. Systems Lab IV

ECE 357
Comp. Systems Lab V

ECE 358
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Comp. Systems Lab VII

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Comp. Systems Lab XII

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ECE 366
Comp. Systems Lab XIV

ECE 367
Comp. Systems Lab XV

ECE 368
Comp. Systems Lab XVI

ECE 369
Comp. Systems Lab XVII

ECE 370
Comp. Systems Lab XVIII

ECE 371
Comp. Systems Lab XIX

ECE 372
Comp. Systems Lab XX

ECE 373
Software Engineering

ECE 374
Networks & the Internet

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ECE 399
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ECE 401
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ECE 402
Computer Systems

ECE 403
Computer Architecture

ECE 404
Computer Networking

ECE 405
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ECE 406
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ECE 407
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ECE 408
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ECE 409
Computer Systems

ECE 410
Computer Architecture

ECE 411
Computer Networking

ECE 412
Computer Systems

ECE 413
Computer Organization

ECE 414
Computer Security

ECE 415
Senior Design Project I

ECE 416
Senior Design Project II

NOTE: Always check SPIRE for availability, as these offerings can change.

March 2018
**BS-CSE Prerequisite Flowchart, part 2**

**NOTE:** Always check SPIRE for the availability of ECE 5xx courses, as these offerings can change.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 212</td>
<td>Circuit Analysis II</td>
<td>(Fall 2018)</td>
</tr>
<tr>
<td>ECE 313</td>
<td>Signals &amp; Systems</td>
<td></td>
</tr>
<tr>
<td>ECE 314</td>
<td>Probability &amp; Random Proc.</td>
<td></td>
</tr>
<tr>
<td>ECE 563</td>
<td>Intro Comm.</td>
<td></td>
</tr>
<tr>
<td>ECE 565</td>
<td>Digital Signal Processing</td>
<td>(Spring 2019)</td>
</tr>
<tr>
<td>ECE 564</td>
<td>Communication Systems</td>
<td></td>
</tr>
<tr>
<td>ECE 570</td>
<td>System Software Design</td>
<td></td>
</tr>
<tr>
<td>ECE 571</td>
<td>Microelectronic Fabrication</td>
<td></td>
</tr>
<tr>
<td>ECE 572</td>
<td>Optoelectronics</td>
<td></td>
</tr>
<tr>
<td>ECE 573</td>
<td>Embedded Systems</td>
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<tr>
<td>ECE 597</td>
<td>Photonics</td>
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</tr>
<tr>
<td>ECE 597NE</td>
<td>Nanoelectronics</td>
<td></td>
</tr>
<tr>
<td>ECE 333</td>
<td>Fields &amp; Waves</td>
<td></td>
</tr>
</tbody>
</table>

**Key:**
- Prerequisite = solid arrow
- Alternative prereq = dashed arrow
- Courses in a sequence not shown = dashed horizontal line
- Required for graduation as CSE = solid outline
- CSE Senior elective = dashed outline

March 2018