**BA CS Foundations 2015 Electives**

- three additional elective courses (12 credits minimum)
- CSCD 303 Computer and Information Security (4)
- CSCD 305 C++ Programming (4)
- CSCD 316 Practical Problem Solving (2, 2)
- CSCD 340 Operating Systems (5)
- CSCD 370 Graphical User Interface Programming (4)
- CSCD 371 .NET Programming (4)
- CSCD 372 Android Mobile Development (4)
- CSCD 373 iOS Mobile Development (4)
- CSCD 378 Web Application Development (4)
- CSCD 379 .NET Web Application Development (4)
- CSCD 409 Scientific Programming (4)
- CSCD 416 3D Modeling and Animation II (4)
- CSCD 417 3D Modeling and Animation III (4)
- CSCD 418 3D Modeling and Animation IV (4)
- CSCD 420 Automata (4)
- CSCD 427 Advanced Database Management Systems (4)
- CSCD 429 Data Mining (4)
- CSCD 433 Advanced Computer Networks (4)
- CSCD 434 Network Security (4)
- CSCD 435 Principles of Programming Languages (4)
- CSCD 437 Secure Coding (4)
- CSCD 440 Advanced Operating Systems (4)
- CSCD 443 Distributed Multiprocessing Environments (4)
- CSCD 460 Advanced Architecture and Organization (4)
- CSCD 461 Embedded Systems (4)
- CSCD 462 Embedded Real-Time Control (4)
- CSCD 467 Concurrent Systems (4)
- CSCD 470 3D Computer Graphics Principles (4)
- CSCD 471 Advanced 3D Computer Graphics Programming (4)
- CSCD 474 Computer Games Development (4)
- CSCD 480 Intelligent Systems (4)
- CSCD 487 Human Computer Interface (4)
- CSCD 495 Internship (up to two 4 credit internships are allowed)
- CSCD 396, 398, 399, 3xx, 439, 496, 498, 499, 4xx (4) prior departmental approval of topic content is required.

Note: many of these elective courses have prerequisites.

Note: any course used as a requirement may not also be used as an elective.

Note: 1CSCD 316 must be taken twice for 4 credits total to be used as an elective.