

Checklist for BS in Computer Science

Required COMP courses:

- 150-151. PROGRAMMING I and II (3,3) Fall, Spring or
- 170. INTRODUCTION TO SOFTWARE DEVELOPMENT. (5) Fall, Spring
- 245. DATA STRUCTURES. (3) Fall, Spring
- 250. WEB DEVELOPMENT I. (3) Fall, Spring
- 268. COMPUTER ARCHITECTURE AND ASSEMBLER PROGRAMMING. (3) Fall, Spring
- 301. SOFTWARE ENGINEERING. (3) Fall, Spring
- 310. OPERATING SYSTEMS CONCEPTS. (3) Fall, Intercession
- 311. DATA COMMUNICATIONS AND NETWORKING. (3) Spring
- 336. DATABASE CONCEPTS AND APPLICATIONS. (3) Spring
- 345. OBJECT-ORIENTED PROGRAMMING. (3) Fall, Spring
- 439. COMPUTING SEMINAR. (1) Fall, Spring
- 440. CS SOFTWARE DEVELOPMENT PROJECT. (3) Spring

BS requires three of these elective COMP courses:

- 328. NUMERICAL METHODS. (3) Spring, even years
- 335. FILE STRUCTURES AND ACCESS METHODS. (3) Fall, odd years
- 349. APPLIED ALGORITHMS.(3) Fall
- 367. COOPERATIVE EDUCATION. (3) By arrangement with department chair
- 425. PARALLEL PROGRAMMING. (3) Fall, even years
- 430. ARTIFICIAL INTELLIGENCE. (3) Fall, even years
- 431. WEB DEVELOPMENT II. (3) Spring
- 445. GRAPHICAL USER INTERFACE PROGRAMMING. (3) Fall
- 450. INDEPENDENT STUDY. (3) Offered by special arrangement
- 475. SELECTED TOPICS. (3) Offered with sufficient enrollment. **May be repeated as content varies.**
- EEngr 220. Circuits I. (4) Fall

Required Math courses for BS degree:

- 201. ANALYTICS AND CALCULUS I. (5) Fall, Spring.
- 251. ANALYTICS AND CALCULUS II. (5) Fall, Spring.
- 260. DISCRETE MATH (3) Spring.
- 313. LINEAR ALGEBRA. (3) Fall.
- 318. PROBABILITY. (3) Spring.

Liberal Arts courses:

- Math 151 or 200 (Covered by BS math courses)
- See Liberal Arts Requirements at <http://harding.catalog.acalog.com/>

- Minimum of 45 upper level credits (250 and above)
- Minimum of 128 credits total needed for graduation