Checklist for BS in Software Development:

Required 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. INTERNET 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.
- 311. DATA COMMUNICATIONS AND NETWORKING. (3) Spring.
- 336. DATABASE CONCEPTS AND APPLICATIONS. (3) Spring.
- 345. OBJECT-ORIENTED PROGRAMMING. (3) Fall, Spring.
- 349. APPLIED ALGORITHMS. (3) Fall.
- 431. INTERNET DEVELOPMENT II. (3) Spring.
- 439. COMPUTING SEMINAR. (1) Fall, Spring.
- 440. CS SOFTWARE DEVELOPMENT PROJECT. (3) Spring.
- 445. GRAPHICAL USER INTERFACE PROGRAMMING. (3) Fall.
- Math 151, 171, or 201. COLLEGE ALGEBRA, PRE-CALC, or CALCULUS I. (3-5). Fall, Spring

Five of these elective Computing/Math courses must be chosen:

Computing:

- 328. NUMERICAL METHODS. (3) Spring, even years.
- 335. FILE STRUCTURES AND ACCESS METHODS. (3) Fall, odd years.
- 367. CO-OPERATIVE EDUCATION. (3) BY arrangement with department chair.
- 425. PARALLEL PROGRAMMING. (3) Fall, even years.
- 430. ARTIFICIAL INTELLIGENCE. (3) Fall, even years.
- 446. COMPUTER GRAPHICS. (3) Spring, odd years.
- 450. INDEPENDENT STUDY. (1-3) Offered by special arrangement.
- 475. SELECTED TOPICS. (3) Offered on demand. May be repeated as content varies.

Math:

- 201. CALCULUS I (5) Fall, Spring. May not be used here if used in core above.
- 260. DISCRETE MATH (3) Fall, Spring.

Liberal Arts courses:

- 8 credits of textual Bible (Bnew, Bold, Byfe 338) including some of both testaments
- Eng 111 or 113
- Eng 211
- ComO 101
- Psy 201
- Econ 201, Pols 205 or Socs 203
- Kins 101
- Kins activity course
- Biol 111, 113 or any Biol course excluding 140, 254, 440
- PhS 111, 112, 113, 115, 116, or Phys 201, 211 or Chem 114, 121
- Art 101, Mus 101 or Thea 101
- Eng 201 or 202
- Hist 101 or 102
- Hist 110 or 111
- 6 credits of Global Lit from Anth 250; Art 434; Biol 250 (cannot count for Biol if used here); Bmis 280, 387, or 388; Engr 330 & 331; Geog 302 or 303; Hist 209, 211, 213, or 215, Hnrs 204; Hum 201; Hum 273; IB 325; IB 345; Inst 310; Nurs 305 or 413; Nurs 344; Pols 202; Socs 301; Swk 360; Thea 306; any modern foreign language (not Latin, Hebrew, or Biblical Greek)

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

Summary of hours for the B.S. in Software Development, by category:

- Major Core Courses: 42-43 credits of CS and 3-5 of Math for a total of 45-48 credits
- Major Elective Courses: 9-15 credits of CS and 0-8 of Math for a total of 15-17 credits
- Total for major is 60-65 credits.
- Total for Liberal Arts is 50 credits (Normal Liberal Arts minus Math, which is built into the major)
- Remaining Bible is 8 credits (not included in normal Liberal Arts)
- Electives: 5 to 10 credits, depending on choices made in selection of major courses.
- Total: 128 credits