Prerequisites and required courses for SE majors, by Lisa Henderson
2011 - 2012 Degree Requirements

- CSE 1284: Introduction to Prog
- CSE 2383: Data Structures
- CSE 4503: Database Management
- CSE 4733: Operating Systems
- Technical Elective **
- Humanities (General Ed Elective)
- Technical Elective **
- CSE 1384: Intermediate Prog
- CSE 2974: Data Structures
- ECE 3714: Digital Devices
- ECE 3724: Microprocessors
- CSE 3324: DCSP
- CSE 4153: Data Com & Com Networks
- Security *** Elective
- GE 3513: Technical Writing

CSE 1002: Introduction to CSE

- CSE 2813: Discrete Structures
- ECE 3714: Digital Devices
- ECE 3724: Microprocessors
- CSE 3324: DCSP
- CSE 4153: Data Com & Com Networks
- Security *** Elective
- GE 3513: Technical Writing

MA 1713: Calculus I
MA 1723: Calculus II
MA 2733: Calculus III
MA XXXX: Math elective *
CSE 4214: Intro to Software Eng
CSE 4833: Algorithms
CSE 3981: Ethics
Humanities (General Ed Elective)

EN 1103: English Comp I
EN 1113: English Comp II
Fine Art (General Ed Elective)
IE 4613: Eng Stats I
BIO 1134: Biology I
Free Elective
3 credit hours
CSE 3213 (fall) Soft Eng Senior Project I
CSE 3223 (spring) Soft Eng Senior Project II

CH 1213: Chemistry
CO 1003/CO 1013: Pub Speaking / Intro to Comm
PH 2213: Physics I
PH 2223: Physics II
Social Science (General Ed Elective)
Social Science (General Ed Elective)
CSE 4223 (fall) Software Arch & Design Para
CSE 4223 (spring) Software Testing & QA

See reverse for Math, Technical, and Security Electives

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### Math, Technical, and Security Electives

#### **Technical Electives**
- MA 2743: Calculus IV (if not used elsewhere)
- IE 4623 (spring): Eng Stats II
- IE 4713 (irregular): Operations Research
- IE 4333: Production Control Sys I
- IE 4113 (irregular): Human Factors Engineering
- IE 4513: Eng Admin
- IE 4373 (irregular): Automation
- ECE 4723: Embedded Systems
- ECE 4743: Digital Systems Design
- IE 3913: Eng Econ
- IE 4533 (spring): Project Management
- CSE 4243 (fall): Info & Comp Security
- CSE 4273 (fall): Intro to Comp Forensics
- CSE 4383 (spring): Crypto & Network Security

#### **Math elective**
- MA 2743: Calculus IV
- MA 3253: Differential Equations
- MA 3113: Linear Algebra
- MA 3053: Foundations of Math

#### **Security Elective**
- MA 3253
- IE 4573: Process Improvement Eng
- IE 4553: Ind Qual Control I
- IE 4533 (spring): Project Management
- CSE 3XXX or 4XXX: Any upper level CSE course
- CSE 3XXX: Any lower level CSE course