Prerequisites and required courses for : Software Engineering

- Prerequisite
- Prerequisite with a C or better
- Prerequisite or Corequisite
- Check comments for other prerequisites and other important information

First Semester	Second Semester	Third Semester	Fourth Semester	Fifth Semester	Sixth Semester	Seventh Semester	Eighth Semester
CSE 1284 Introduction to Prog	CSE 1384 Intermediate Prog	CSE 2383 Data Structures	CSE 4503 Database Management	CSE 4733 Operating Systems	Technical Elective Elective **	Humanities (General Ed Elective)	CSE 4763 Legal & Ethical Issues
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 XXXX Math Elective *	BIO 1134 Biology I	CSE 4214 Intro to Software Eng	CSE 4833 Algorithms	CSE 4223 (fall) Manage Software Project	Humanities (General Ed Elective)
EN 1103 English Comp I	EN 1113 English Comp II	Fine Art (General Ed Elective)	IE 4613 Eng Stats I	Science Elective ****	Free Elective 4 credit hours	CSE 3213 (fall) Soft Eng Senior Project I	CSE 3223 (spring) Soft Eng Senior Project II
CH 1213 Chemistry I	CO 1003 / CO 1013 Pub Speaking/Intro to Comm	PH 2213 Physics I	MA 3113 Linear Algebra	Social Science (General Ed Elective)	Social Science (General Ed Elective)	CSE 4233 (fall) Software Arch & Design Para	CSE 4283 (spring) Software Testing & QA
CH 1211 Chemistry I Lab							

*Math elective

- MA 2733 Calculus III
- MA 4143 Graph Theory
- MA 4173 Number Theory
- MA 3053 Foundations of Math

**Technical Electives

- CSE 3XXX or 4XXX Any upper level CSE Course
- ECE 3XXX or 4XXX Any upper level ECE Course
- MA 2743 Calculus IV
- MA 3XXX or 4XXX Any upper level CSE Course
- IE 3913 Engineering Economy I
- IE 4113 (Irregular) Human Factors Engineering
- IE 4333 Production Control Sys I
- IE 4373 (Irregular) Automation
- IE 4513 Engineering Admin
- IE 4573 Process Inprovement Eng
- IE 4623 (Spring) Engineering Stats II
- IE 4653 Industrial Quality Control
- IE 4733 Linear Programming I
- BIS 4523 Business Prog w/ COBAL
- BIS 4533 Decision Support Systems

***Security Elective

- CSE 4243 (fall) Info & Comp Security
- CSE 4253 Secure Software Engineering
- CSE 4273 Intro to Comp Forensics
- CSE 4173 Cryptography

****Science Elective

- PH 2223 Physics II
- BIO 1144 Biology II
- CH 1223 Chemistry II
- CH 1221 Chemistry II Lab