

Computer Systems Engineering Electives (12 credits). Course approval is required from your CSE Faculty Advisor

BSE students specializing in Computer Systems Engineering are required to take 12 credits of CSE Electives. At least 6 of those credits must be from classes with the CSE prefix. The other credits can be from any of the courses listed under CSE Electives. Most courses require prerequisites and faculty advisor approval is required. Students should coordinate the other degree requirements to satisfy any prerequisite requirements. Other courses may be accepted upon advisor approval.

CSE Electives

<u>Course Number</u>	<u>Description</u>	<u>Credits</u>	<u>Prerequisites</u>
CSE A442	VLSI Circuit Design	3	CSE A342
CSE A445	Computer Design & Interfacing	4	EE A204 and EE A241 and CSE A225
CSE A451	Digital Signal Processing	3	EE A354 and (ES A302 or STAT A307)
EE A324/L	Electromagnetics II (and Lab)	4	EE A314 and MATH A302
EE A354	Engineering Signal Analysis	3	EE A353 and MATH A302
EE A441	Integrated Circuit Design	3	EE A204 and CHEM A105 and (EE A353 or PHYS A303)
EE A465	Telecommunications	3	EE A354

>>>Other courses may also be taken for Advanced Computer Systems Engineering Electives but must first be approved by your CSE faculty advisor and petitioned.

ES/MATH Elective (3 or 4 credits). Course approval is required from your CSE Faculty Advisor

BSE students specializing in Computer Systems Engineering are required to take 3 or 4 credits of Engineering Science or Math Electives. If you are planning to take the Fundamentals of Engineering (FE) Exam, you should take ES208 (Engineering Mechanics). If you are not planning to take the FE Exam, taking a 300- or 400-level MATH course will complete the requirements for a minor in Math. Other courses may be accepted upon advisor approval.

ES/MATH Electives

<u>Course Number</u>	<u>Description</u>	<u>Credits</u>	<u>Prerequisites</u>
ES A208	Engineering Mechanics	4	(ENGR A151 or ES A111) and MATH A201
MATH A314	Linear Algebra	3	MATH A202
MATH A410	Introduction to Complex Analysis	3	MATH A202
MATH A422	Partial Differential Equations	3	MATH A302
MATH A423	Advanced Engineering Mathematics	3	MATH A302
STAT A307	Probability and Statistics in Science	4	MATH A201

>>>Other courses may also be taken for ES/MATH Electives but must first be approved by your CSE faculty advisor and petitioned.