

Schedule of Required Undergraduate Course for Department of XXX

CRS.	No.	Course Title Abbreviation	FALL	SPRING	SUMMER	Computer Science	Software Engineering
CSE	1001	Fundamentals of Software Development 1	*	*	*	Required	Required
CSE	1002	Fundamentals of Software Development 2	*	*	*	Required	Required
CSE	1010	Ideas and Impact of Computing	*	*		Outside Departments	Outside Departments
CSE	1101	Computing Disciplines and Careers	*			Required	Required
CSE	1301	Introduction to Computer Applications	*	*	*	Outside Departments	Outside Departments
CSE	1400	Applied Discrete Mathematics	*	*		Required	Required
CSE	1502	Introduction to Software Development w/C++	*	*	*	Outside Departments	Outside Departments
CSE	1503	Introduction to Software Development w/Fortran	*	*		Outside Departments	Outside Departments
CSE	2010	Algorithms and Data Structures	*	*	*	Required	Required
CSE	2050	Programming in a Second Language		*		Required	Required
CSE	2120	Computer Organization		*		Required	Required
CSE	2234	Introduction to System Administration	*			Elective	Elective
CSE	2400	Applied Statistics	*			Required	Required
CSE	2410	Introduction to Software Engineering		*		Required	Required
CSE	2500	Combinatorics and Graph Theory		*		Elective	Elective
CSE	3030	Legal, Ethical and Social Issues in Computing	*			Required	Required
CSE	3102	Computer Organization	*			Elective	Elective
CSE	3120	Computer Architecture	*			Required	Required
CSE	3411	Software Testing	*		*	Elective	Required
CSE	3421	Software Design Methods	*			Elective	Required
CSE	4001	Operating Systems Concepts	*	*	*	Required	Required
CSE	4020	Database Systems	*		*	Elective	Elective
CSE	4051	Advanced Java Concepts	*			Elective	Elective
CSE	4081	Introduction to Analysis of Algorithms	*			Required	Required
CSE	4082	Introduction to Parallel and Real-Time Algorithms		*		Elective	Elective
CSE	4083	Formal Languages and Automata Theory		*	*	Required	Required
CSE	4101	Computer Science Projects 1	*	*		Required	Required
CSE	4102	Computer Science Projects 2	*	*		Required	Required
CSE	4201	Software Development Projects 1	*	*		Required	Required
CSE	4201	Software Development Projects 2	*	*		Required	Required
CSE	4232	Computer Network Programming		*		Elective	Elective
CSE	4234	Web Applications		*		Elective	Elective
CSE	4250	Programming Language Concepts	*			Required	Elective

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CSE	4251	Compiler Theory		*		Elective	Elective
CSE	4257	Graphical User Interfaces		*		Elective	Elective
CSE	4272	Computer and Information Security	*	*		Elective	Elective
CSE	4285	Game Design		*		Elective	Elective
CSE	4280	Computer Graphics Algorithms	*	*		Elective	Elective
CSE	4301	Introduction to Artificial Intelligence	*			Elective	Elective
CSE	4303	Speech Recognition Programming	*	*		Elective	Elective
CSE	4400	Independent Study in Computer Science	*	*	*	Elective	Elective
CSE	4401	Independent Study in Computer Science	*	*	*	Faculty Request Only	Faculty Request Only
CSE	4410	Software Project Management	*			Need Basis	Need Basis
CSE	4415	Software Testing 2		*	*	Elective	Required
CSE	4510	Special Topics in Computer Science	*	*	*	Elective	Elective
CSE	4520	Special Topics in Software Engineering	*	*	*	Elective	Elective
CSE	4610	Requirements Engineering		*		Elective	Required
CSE	4621	Software Metrics and Modeling		*		Elective	Required