#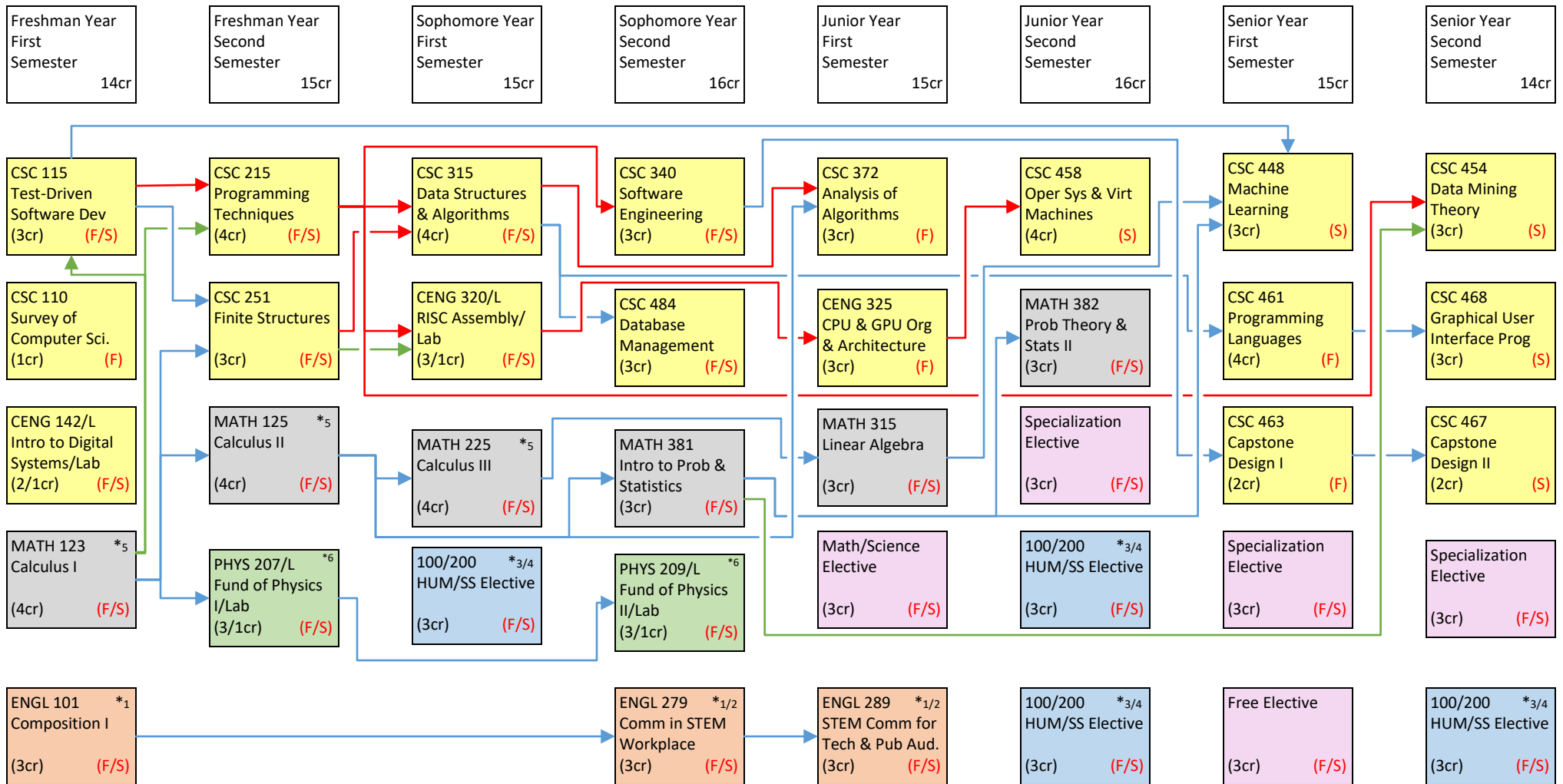 BS Computer Science: Artificial Intelligence and Machine Learning Specialization Curriculum Flowchart (2024-25)—120 Credits

Freshman Year First Semester 14cr	Freshman Year Second Semester 15cr	Sophomore Year First Semester 15cr	Sophomore Year Second Semester 16cr	Junior Year First Semester 15cr	Junior Year Second Semester 16cr	Senior Year First Semester 15cr	Senior Year Second Semester 14cr
CSC 115 Test-Driven Software Dev (3cr) (F/S)	CSC 215 Programming Techniques (4cr) (F/S)	CSC 315 Data Structures & Algorithms (4cr) (F/S)	CSC 340 Software Engineering (3cr) (F/S)	CSC 372 Analysis of Algorithms (3cr) (F)	CSC 458 Oper Sys & Virt Machines (4cr) (S)	CSC 448 Machine Learning (3cr) (S)	CSC 454 Data Mining Theory (3cr) (S)
CSC 110 Survey of Computer Sci. (1cr) (F)	CSC 251 Finite Structures (3cr) (F/S)	CENG 320/L RISC Assembly/ Lab (3/1cr) (F/S)	CSC 484 Database Management (3cr) (F/S)	CENG 325 CPU & GPU Org & Architecture (3cr) (F)	MATH 382 Prob Theory & Stats II (3cr) (F/S)	CSC 461 Programming Languages (4cr) (F)	CSC 468 Graphical User Interface Prog (3cr) (S)
CENG 142/L Intro to Digital Systems/Lab (2/1cr) (F/S)	MATH 125 *5 Calculus II (4cr) (F/S)	MATH 225 *5 Calculus III (4cr) (F/S)	MATH 381 Intro to Prob & Statistics (3cr) (F/S)	MATH 315 Linear Algebra (3cr) (F/S)	Specialization Elective (3cr) (F/S)	CSC 463 Capstone Design I (2cr) (F)	CSC 467 Capstone Design II (2cr) (S)
MATH 123 *5 Calculus I (4cr) (F/S)	PHYS 207/L *6 Fund of Physics I/Lab (3/1cr) (F/S)	100/200 *3/4 HUM/SS Elective (3cr) (F/S)	PHYS 209/L *6 Fund of Physics II/Lab (3/1cr) (F/S)	Math/Science Elective (3cr) (F/S)	100/200 *3/4 HUM/SS Elective (3cr) (F/S)	Specialization Elective (3cr) (F/S)	Specialization Elective (3cr) (F/S)
ENGL 101 *1 Composition I (3cr) (F/S)		ENGL 279 *1/2 Comm in STEM Workplace (3cr) (F/S)	ENGL 289 *1/2 STEM Comm for Tech & Pub Aud. (3cr) (F/S)	100/200 *3/4 HUM/SS Elective (3cr) (F/S)	Free Elective (3cr) (F/S)	100/200 *3/4 HUM/SS Elective (3cr) (F/S)

Courses that are offered in Fall ONLY or Spring ONLY are indicated by F or S semesters, respectively.
Courses indicated F/S are offered Fall and Spring semesters.
*1-6 Indicates courses that may be used to satisfy goals 1-6 of the system general education requirements.
Refer to the 2024-25 academic catalog for additional information regarding system general education requirements, elective courses, pre-/co-requisites and grade requirements.
A list of approved or recommended electives and other supplemental information may be obtained from your academic department.
Revised: July 2024

CLICK HERE FOR ACCESSIBILITY

Prerequisite →
Pre or Corequisite →
Prerequisite with C or higher →