Artificial Intelligence Minor

(All colleges, not open to computer science majors)

24 credits

Courses listed in more than one category may be counted only once.

Code	Title	Credits
CS 120	Software Design I	4
CS 220	Software Design II	4
CS 225	Discrete Computational Structures	3
CS 340	Software Design III: Abstract Data Types	4
CS 452	Artificial Intelligence	3
CS 457	Machine Learning	3
Select three credits of electives at the 300 or 400-level (see below)		3
Total Credits		**24**

Computer science major electives

Code	Title	Credits
CS 202	Introduction to Web Design	3
CS 224	Introduction to Programming Language	1-3
CS 227	Competitive Programming	1
CS 342	Software Testing Techniques	3
CS 351	Simulation	3
CS 353	Analysis of Algorithm Complexity	3
CS 356	Software Exploitation	3
CS 372	Hardware/Software Integration	3
CS 395	Independent Study	1-3
CS 402	Web Application Development	3
CS 410	Free and Open Source Software Development	3
CS 418	Mobile Application Development	3
CS 419	Topics in Computer Science	1-3
CS 431	Introduction to Robotics	3
CS 443	Topics in Operating Systems	3
CS 449	Advances in Software Engineering	3
CS 451	User Interface Design	3
CS 452	Artificial Intelligence	3
CS 453	Introduction to Theory of Computation	3
CS 454	Digital Image Processing	3
CS 455	Fundamentals of Information Security	3
CS 456	Secure Software Development	3
CS 457	Machine Learning	3
CS 461	Introduction to Data Science	3
CS 464	Advanced Database Management Systems	3
CS 470	Parallel and Distributed Computing	3
CS 471	Computer Networks	3
CS 472	Internet of Things	3
CS 475	Computer Graphics and Modeling	3
CS 476	Data Visualization	3
CS 499	Research in Computer Science	1-3
CPE 212	Digital Logic	3
CPE 227	Introduction to Prototyping	1
CPE 301	Introduction to Transient Analysis	3
CPE 302	Introduction to Control Systems	3
CPE 309	Systems Development	3
CPE 321	Introduction to Digital Signal Processing	3
CPE 395	Independent Study	1-3
CPE 406	Architecture of Parallel Systems	3
CPE 419	Topics in Computer Engineering	1-3
CPE 420	Digital Design	3
CPE 446	ASIC Design	3
CPE 463	Advanced Computer Architecture	3
CPE 466	Code Generation and Optimization	3
CPE 478	Virtual Machines	3
CPE 483	Engineering Project Management	1
CPE 499	Research in Computer Engineering	1-3
MTH 208	Calculus II	4
MTH 317	Graph Theory	3
MTH 371	Numerical Methods	3
PHY 335	Electronics	4