

Computer Science Undergraduate Track Elective Suggestions

Undergraduate certificates awarded upon graduation if required number of courses are taken in a specific track area (optional).

Software	<p><u>Software Development (Choose 5)</u> 3470: Scripting Language/Design 4230: Parallel Programming 4480: Computer Networks 4540: Web Software Architecture 5140: Data Mining 5460: Operating Systems 5470: Compilers 5530: Database Systems 5540: Human Computer Interaction 5785: Adv. Embedded Software</p> <p><u>Web/Mobile Development (Choose 4)</u> 3470: Scripting Language/Design 4480: Computer Networks 4540: Web Software Architecture 4962: iPhone/Android Development 5530: Database Systems 5540: Human Computer Interaction</p>	Artificial Intelligence	<p><u>Robotics (Choose 3)</u> 4300: Artificial Intelligence 5310: Robotics 5350: Machine Learning *6320: 3D Computer Vision *6330: Intro to Robot Control *6370 Geometric Motion Planning</p> <p><u>Artificial Intelligence (Choose 4)</u> 4300: Artificial Intelligence 4640: Image Processing Basics 5100: Foundations of CS 5130: Computational Statistics 5140: Data Mining 5320: Computer Vision 5340: Natural Language Processing 5350: Machine Learning</p>	Graphics	<p><u>Visual Computing (Choose 4)</u> 3200: Intro Sci Comp 4600: Intro Computer Graphics 4640: Image Processing Basics 5320: Computer Vision 5350: Machine Learning 5610: Interactive Comp Graphics 5630: Scientific Visualization 5650: Perception for Graphics</p>
	Computer Systems		<p><u>Computer Systems (Choose 3)</u> 4230: Parallel Programming 4480: Computer Networks 5460: Operating Systems 5470: Compilers 5490: Network Security 5530: Database Systems</p> <p><u>Programming Languages (Choose 3)</u> 3470: Scripting Language/Design 5100: Foundations of CS 5470: Compilers 5510: Programming Languages</p>		Data
Artificial Intelligence		Theory	<p><u>Theory (Choose 3)</u> 3100: Models of Computation 5100: Foundations of CS 5130: Computational Statistics 5140: Data Mining 5350: Machine Learning *6150: Adv. Algorithms</p>		

*Open to undergrads with instructor consent & permission code.