The following Table shows the anticipated course offerings for the CS Department. Course offerings depend on enrollment and small adjustments may have to be made. Also, new courses may be developed in this time period and will be added if they become available.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Course Number | Course | Spring  | Fall  | Occasional Offering |
| CS 1120 | Computational Thinking | X | X |  |
| CS 1150 | Principles of Comp Sci | X | X |  |
| CS 1450 | Data Structures & Algorithms | X | X |  |
| CS 1910 | Cybersecurity for All | X | X |  |
| CS 2020 | Intro Stats for Data Analysis | X | X |  |
| CS 2060 | Programming With C | X | X |  |
| CS 2080 | Programming With UNIX | X | X |  |
| CS 2150 | Discrete Structures | X | X |  |
| CS 2160 | Computer Organization & Assembly Language | X | X |  |
| CS 2250 | Advanced Data Structures in C++ | X |  |  |
| CS 2300 | Computational Linear Algebra | X | X |  |
| CS 2910 | Secure Mobile Cloud Computing |  | X |  |
| CS 3020 | Advanced Object Technology Using C# | X | X |  |
| CS 3050 | Computing Ethics | X | X |  |
| CS 3060 | Object Oriented Programming Using C++ | X | X |  |
| CS 3080 | Python Programming | X | X |  |
| CS 3110 | Programming the Mobile Web | X  |  |  |
| CS 3160 | Concepts of Programming Languages | X | X |  |
| CS 3300 | Software Engineering | X | X |  |
| CS 3350 | **Team-Based Game Production** | X | X |  |
| CS 3400 | UX/UI Design |  | X |  |
| CS3460 | Intelligent Robotics |  |  | X |
| CS3820 | Intro to AI | X |  |  |
| CS 3910 | System Admin & Security | X |  |  |
| CS 3920 | Intro to Defensive Cyber Org |  | X |  |
| CS 4000 | Computer Science Internship | X | X |  |
| CS 4100 | Compiler Design | X | X |  |
| CS 4200 | Computer Architecture | X | X |  |
| CS 4220 | Computer Networks | X | X |  |
| CS4300 | Advanced Software Engineering | X | X |  |
| CS 4310 | Software Requirements | X |  |  |
| CS4320 | Software Design |  | X |  |
| CS4340 | Software Maintenance | X |  |  |
| CS 4350 | Software Project Mgmt |  | X |  |
| CS4372 | Software Eng Research |  | X |  |
| CS 4410 | Quantum Software & AI Engineering |  | X |  |
| CS 4420 | Database Systems I | X | X  |  |
| CS 4435 | Data Mining |  | X |  |
| CS4460 | Intelligent Robotics |  |  | X |
| CS4470 | Data Visualization | X |  |  |
| CS 4500 | Operating Systems | X | X |  |
| CS 4550  | Real-Time Operating Systems |  |  | X |
| CS4600 | Numerical Computing |  | X |  |
| CS4610 | Applied Convex Optimization |  |  | X |
| CS 4700 | Automata | XX | X |  |
| CS 4720 | Algorithms | X  | X |  |
| CS 4730 | Algorithmic Game Theory | X |  |  |
| CS4740 | Networks, Crowds, and Markets |  |  | X |
| CS4780 | Advanced 3D Games and Digital Content Creation | X | X |  |
| CS 4790 | Wearable Comp/Complex Systems | X |  | Every 2 years |
| CS 4800 | Computer Graphics |  | X |  |
| CS 4820 | Artificial Intelligence |  |  |  |
| CS 4860 | Machine Learning |  |  | X |
| CS 4870 | Intro to Artificial Neural Networks |  |  | X |
| CS 4890  | Computational Linguistics |  |  | X |
| CS 4910 | Intro to Computer Security | X | X |  |
| CS4915 | Defensive Cyber Operations | X |  |  |
| CS 4920 | Intro to Applied Cryptography | X |  |  |
| CS 4930 | Privacy and Censorship | X |  |  |
| CS 4940  | Ethical Hacking | X |  |  |
| CS 4950 | Homeland Security |  |  | X |
| CS 4980 | System Security |  | X |  |
| CS4985 | Cybersecurity Metrics |  |  | X |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CS 5100 | Compliers | X | X |  |
| CS 5200 | Computer Architecture |   | X |  |
| CS 5220 | Computer Communication |  | X |  |
| CS 5300 | Advanced Software Engineering | X | X |  |
| CS 5310 | Software Requirements | X |  |  |
| CS 5320 | Software Design |  | X |  |
| Cs 5340 | Software Maintenance | X |  |  |
| CS 5350 | Software Produce Management  |  | X |  |
| CS 5371 | Software Mobile Testing |  |  | X |
| CS5372 | SE Research |  |  | X |
| CS5410 | Quantum Software & AI Engineering |  | X |  |
| CS 5420 | Database Systems | X | X |  |
| CS 5435 | Data Mining |  | X |  |
| CS5460 | Intelligent Robotics |  |  |  |
| CS 5470 | Data Visualization | X |  |  |
| CS 5500 | Operating Systems | X |   |  |
| CS 5550  | Real-Time Operating Systems |  |  | X |
| CS5590 | Real Time OS |  |  | X |
| CS5600 | Numerical Computing |  | X |  |
| CS5610 | Applied Convex Optimization |  |  | X |
| CS 5700 | Automata  | X | X |  |
| CS 5720 | Algorithms |   | X |  |
| CS 5730 | Algorithmic Game Theory | X |  |  |
| CS 5740 | Networks, Crowds, and Markets |  |  | X |
| CS 5750 | Computational Geometry | X |  | Every 2-4 years |
| CS 5770 | Animation and Visualization |  |  | Every 2 years |
| CS 5780 | Advanced 3D Games and Digital Content Creation | X | X |  |
| CS 5790 | Wearable Computing and Complex Systems | X |  | Every 2 years |
| CS 5800 | Computer Graphic |  | X |  |
| CS 5810 | Advanced Computer Graphics | X |  | Every2-4 years |
| CS 5820 | Artificial Intelligence |  |  | X |
| CS 5850 | Bioinfo and Computational Biology |  |  | X |
| CS 5860 | Machine Learning |   |  | X |
| CS 5870 | Neural Networks |  |  | X |
| CS 5890 | Computational Linguistics  | X |   |  |
| CS 5910 | Fundamentals of Computer/Network Security |  | X |  |
| CS5915 | Defensive Cyber Operations | X |  |  |
| CS 5920 | Applied Cryptography  |  | X |  |
| CS 5930 | Privacy and Censorship | X |  |  |
| CS 5950 | Homeland Sec & Cyber Security |  |  | X |
| CS 5960 | Wireless and Embedded Systems Security |  |  | X |
| CS 5970 | Software Security |  | X |  |
| CS 5980 | System Security |  |  | X |
| CS5985 | Cybersecurity Metrics |  |  | X |
| CS 6000 | Computer Science Research |  | X |  |
| CS 6770 | Virtual Reality and Computer-Human Interaction |  |  | X |
| CS 6910 | Advanced System Security Designs |  |  | X |
| CS 6930 | Advanced Topics in Web Security and Privacy  |   |  | X |