COMPUTER SCIENCE (C S)

C S 1. Computer - GenEd Requirement. 1-5 Credit Hours.
Computer General Education Requirement Course for Transfer Credit Modeling.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 1213. Programming with Python. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 1300. Computational Thinking. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 1303. Computational Thinking. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 1313. Programming For Non-Majors. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 1314. Computer Programming. 4 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 1321. Java for Programmers. 1 Credit Hour.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 1323. Introduction To Computer Programming. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 1324. Intro prog for non-programmers. 4 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 1813. Discrete Mathematics. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 2281. Engineering Co-Op Program. 1 Credit Hour.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 2334. Programming Structures And Abstractions. 4 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 2413. Data Structures. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 2603. Applied Logic-Hard- & Software. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 2613. Computer Organization. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 2614. Computer Organization. 4 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 2813. Discrete Structures. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 2970. Special Topics/Seminar. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3053. Graphical User Interfaces. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3113. Introduction To Operating Systems. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3202. Software Requirements & Specs. 2 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3203. Software Engineering. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3323. Princ-Programming Languages. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3440. Mentored Research Experience. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3723. C S Numerical Meth Engr Comput. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3823. Theory Of Computation. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3960. Honors Reading. 1-3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3970. Honors Seminar. 1-3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3980. Honors Research. 1-3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 3990. Independent Study. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4004. Graduate Preparation Ii. 4 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4005. Graduate Preparation I. 5 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4013. Artificial Intelligence. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4023. Introduction To Intelligent Robotics. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4033. Machine Learning. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4053. Computer Graphics. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4063. Human Computer Interaction. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4113. Operating Systems Theory. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4133. Data Networks. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4163. Embedded Systems. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4173. Computer Security. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4263. Software Engineering I. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4273. Software Engineering Ii. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4313. Programming Language Concepts. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4323. Compiler Construction. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4410. Programming Competition. 0 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4413. Algorithm Analysis. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4433. Computational Methods In Discrete Optimization. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4473. Intro to Parallel Programming. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4513. Database Management. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4613. Computer Architecture. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4743. Scientific Computing I. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4823. Cryptography. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4910. Senior Reading And Research. 1-3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4970. Undergraduate Seminar. 1-3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4973. Special Topics. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 4990. Independent Study. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5004. Grad Prep II. 4 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5005. Grad Prep I. 5 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5013. Artificial Intelligence. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5023. Introduction To Intelligent Robotics. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5033. Neutral Networks. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5043. Fuzzy Logic. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5053. Computer Graphics. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5063. Computer Vision. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5073. Art. Neural Netwks & Evolution. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5083. Data Mining. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5093. Visual Analytics. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5113. Operating Systems Theory. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5123. Systems Modeling And Performance Evaluation. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5133. Data Networks. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5143. Network Design And Management. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5153. Network Security. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5163. Embedded Systems. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5173. Computer Security. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5193. Special Topics In Networks And Distributed Systems. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5213. Software Engineering Processes. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5293. Text Analytics. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5413. Computational Complexity. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5433. Computational Methods In Discrete Optimization. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5443. Advanced Discrete Optimization And Networks. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5453. Empirical Methods. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5463. Adv Computer Architecture. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5473. Intro to Parallel Programming. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5483. Network Science. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5513. Advanced Database Management. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5593. Data Mining. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5613. Computer Networks And Distributed Processing. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5633. Advanced Computer Architecture. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5703. Machine Learning Practice. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5713. Computational Learning Theory. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5743. Scientific Computing I. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5753. Scientific Computing Ii. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5813. Formal Languages. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5823. Cryptography. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5970. Graduate Seminar. 1-6 Credit Hours.
Prerequisite: Permission of instructor. May be repeated with a change of subject matter maximum credit six hours. Selected topics of current research interest not covered by regularly scheduled coursework. (F, Sp, Su)
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5973. Special Topics In Computer Science. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5980. Research For Master's Thesis. 2-9 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 5990. Independent Studies. 1-3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 6143. Wireless And Mobile Networks. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 6973. Advanced Topics In Computer Science. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 6980. Research For Doctoral Dissertation. 2-16 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).

C S 6990. Independent Study. 3 Credit Hours.
Course Type: Lecture
This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (https://ou-public.courseleaf.com/courses/).