

Catalog

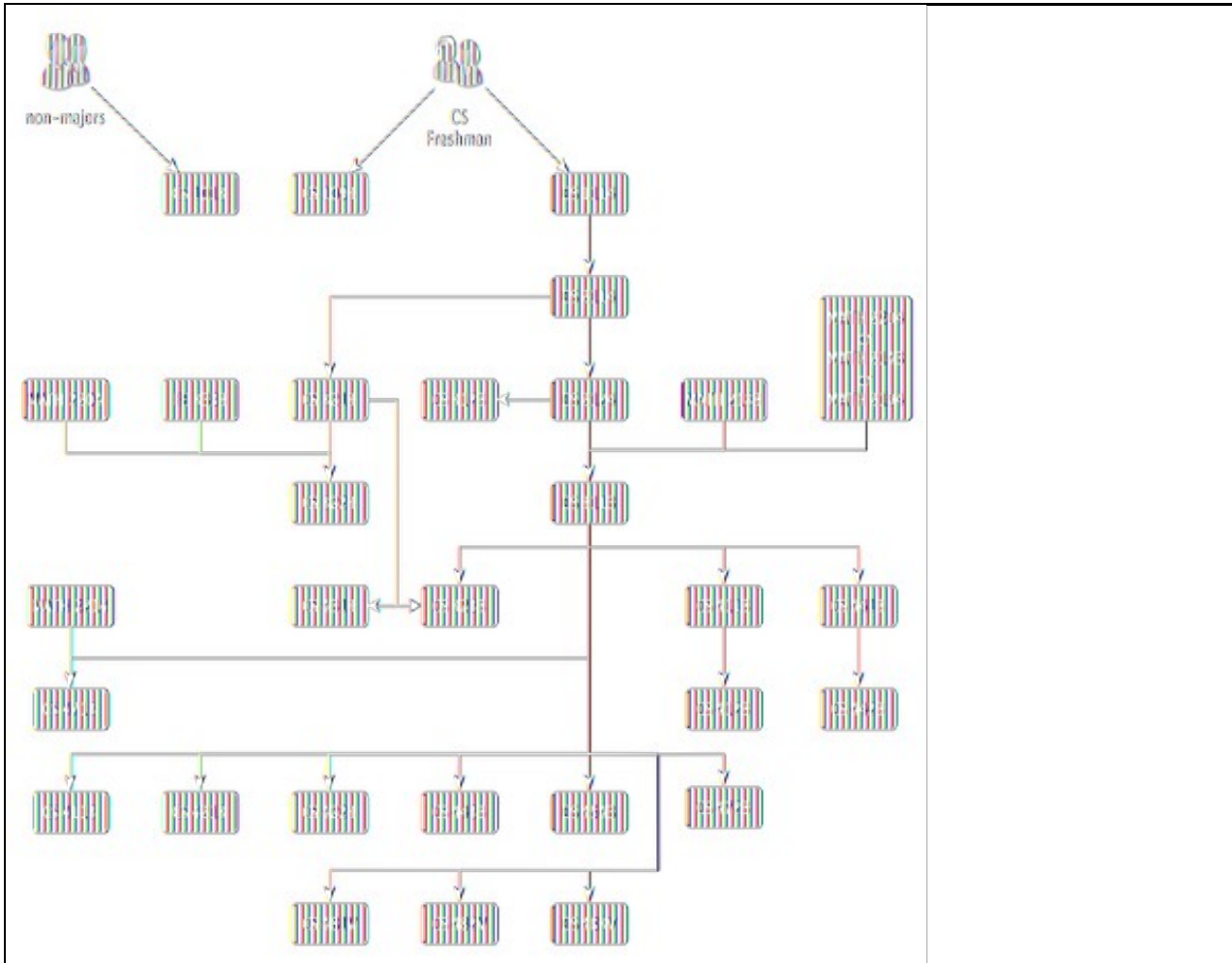
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Course Catalog and Degree Plans

To view the current course catalog and degree plans for the Computer Science Department, please refer to the current [A-State Bulletin](#).

Prerequisite Chart



Course Rotation

Course Rotation (**subject to change**)

FALL 2018

- CS 1013: Introduction to Computers
- CS 1114: Concepts of Programming & lab
- CS 2114: Structured Programming & lab
- CS 2124: OOP & Fund Data Structures & lab
- CS 3113: Algorithms & Adv Data Structures

Fall every year

- CS 3223: Computer Organization
- CS 4/5113: Software Engineering
- CS 4/5223: UNIX Systems Programming
- CS 4/5543: Database Systems
- CS 4/5713: Analysis of Algorithms

Fall even years only

- CS 4/5133: Compilers
- CS 6233: Operating System Design
- CS 6253: Heterogeneous Computing
- CS 6333: Network and Internet Security
- CS 6413: Solid Modeling

SPRING 2019

- CS 1013: Introduction to Computers
- CS 1114: Concepts of Programming & lab
- CS 2114: Structured Programming & lab
- CS 2124: OOP & Fund Data Structures & lab
- CS 3113: Algorithms & Adv Data Structures

Spring every year

- CS 3123: Programming Languages
- CS 3233: Operating Systems
- CS 3613: Web Application Development
- CS 4143: Java Application Development
- CS 4/5313: Computer Networks
- CS 4/5413: Fundamental Computer Graphics
- CS 4/5613: Mobile Application Development
- MATH 4533: Numerical Methods (*CS elective*)
- PHIL 3723: Computers, Ethics, & Society
- EE 3333/3331: Digital Electronics I & Lab

Spring odd years only

- CS 6123: Software Security
- CS 6243: Distributed Systems

Demanded

- CS 4/5723: Automata Theory
- CS 6523: Data Mining Techniques
- CS 5623: Fundamentals of Data Science

FALL 2019

- CS 1013: Introduction to Computers
- CS 1114: Concepts of Programming & lab
- CS 2114: Structured Programming & lab
- CS 2124: OOP & Fund Data Structures & lab
- CS 3113: Algorithms & Adv Data Structures

Fall every year

- CS 3223: Computer Organization
- CS 4/5113: Software Engineering
- CS 4/5223: UNIX Systems Programming
- CS 4/5543: Database Systems
- CS 4/5713: Analysis of Algorithms

Fall odd years only

- CS 4/5433: Artificial Intelligence
- CS 4/5723: Automata Theory
- CS 6223: Advanced Computer Architecture
- CS 6253: Heterogeneous Computing
- CS 6313: Data Security
- CS 6463: Image Processing
- CS 6523: Data Mining Techniques

Demanded

- CS 4/5133: Compilers
- CS 5623: Fundamentals of Data Science

Not regularly scheduled

- CS 4/5423: Interactive Computer Graphics
- CS 4811: Computer Science Seminar
- CS 482V: Special Problems
- CS 6513: Data Compression and Indexing
- CS 6813: Seminar in Computer Science

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- CS 6263: Cloud Computing
- CS 6423: Robotic Software Control
- CS 6443: Machine Learning
- CS 6713: Adv Analysis of Algorithms

Demanded

- CS 4/5723: Automata Theory
- CS 5623: Fundamentals of Data Science

SPRING 2020

- CS 1013: Introduction to Computers
- CS 1114: Concepts of Programming & lab
- CS 2114: Structured Programming & lab
- CS 2124: OOP & Fund Data Structures & lab
- CS 3113: Algorithms & Adv Data Structures
- Spring every year*
- CS 3123: Programming Languages
- CS 3233: Operating Systems
- CS 3613: Web Application Development
- CS 4143: Java Application Development
- CS 4/5313: Computer Networks
- CS 4/5413: Fundamental Computer Graphics
- CS 4/5613: Mobile Application Development
- MATH 4533: Numerical Methods (*CS elective*)
- PHIL 3723: Computers, Ethics, & Society
- EE 3333/3331: Digital Electronics I & Lab

Spring even years only

- CS 6213: Parallel Processing
- CS 6323: Computer Security
- CS 6343: Cloud Security
- CS 6543: Adv. Database Systems
- CS 6613: Bioinformatics
- CS 6723: Computability Theory

Demanded

- CS 4/5723: Automata Theory
- CS 5623: Fundamentals of Data Science

CS faculty approval required

- CS 4/583V: Internship (max 1 credit hour)
- CS 688V: Independent Study
- CS 689V: Thesis