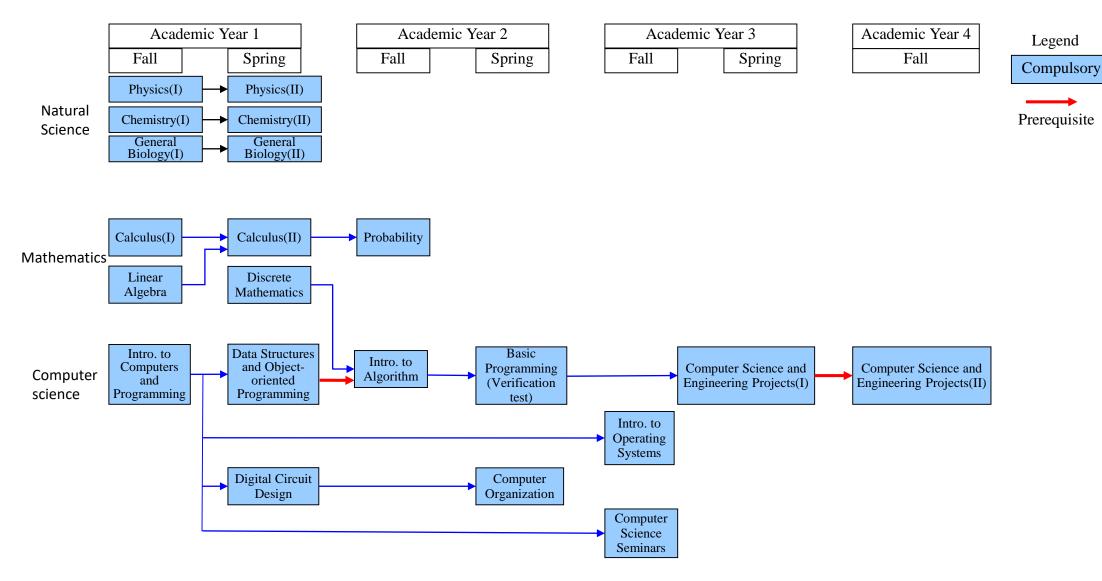
Course Flow (Basic Science & Compulsory courses)

Academic Year 2022



Course Flow of Seven Topics Program

Academic Year 2022

Academic Year 3 Academic Year 2 Academic Year 4 **Topics** Fall Spring Fall Fall Spring **Spring** Intro. to Artificial Intro. to Machine Intro. to Artificial AI and Data Database Intelligence Learning Intelligence Systems Science Capstone Computer Computer Intro. to Cryptography Security or Cryptography Security Capstone Intro. to Engineering Intro. to Network Computer Programming Principles of Networks Network Systems Network Communications Capstone and Wireless Engineering Networks Multimedia and Intro. to Multimedia Intro. to Image Numerical Computer **Human Computer** Processing Engineering Methods Graphics Interaction Capstone Advanced System Computer Operating Systems Programming in System Software the UNIX Capstone Intro. to Compiler Administration Environment Design Software and Digital Microprocessor Embedded Circuit Lab. Hardware Systems: Principles System Capstone and Implementation Integration Algorithmic Randomized Intro. to Formal Languages Graph Theory or Foundation of Competitive Algorithms Theory of Elementary graph Machine Learning Numerical Methods Programming(I) theory Computation Combinatorial Mathematics Information Theory and Introduction to

Intro. to Artificial Intelligence

(Theory of Computation:

Choose four courses from the right column)

Legend

Program Compulsory

Program Compulsory

Common Compulsory of 2 Programs

Data Compression

Practices

Approximation

Algorithms