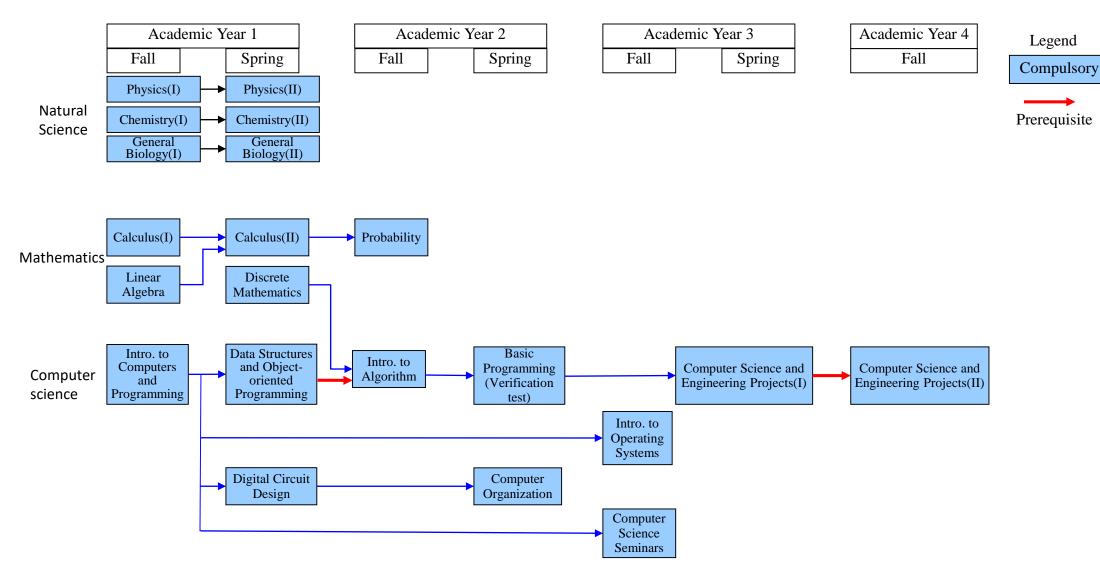
## Course Flow (Basic Science & Compulsory courses)

Academic Year 2023



## Course Flow of Seven Topics Program

Academic Year 2023

Academic Year 2 Academic Year 3 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 Information Theory and Intro. to Formal Languages Graph Theory or Foundation of Competitive Data Compression Theory of Elementary graph Numerical Methods Machine Learning Programming(I) Practices theory Computation Combinatorial Mathematics Introduction to

Intro. to Artificial Intelligence

(Theory of Computation:

Choose four courses from the right column)

Approximation

Algorithms

Randomized Algorithms

Legend

Program Compulsory

Program Compulsory

Common Compulsory of 2 Programs