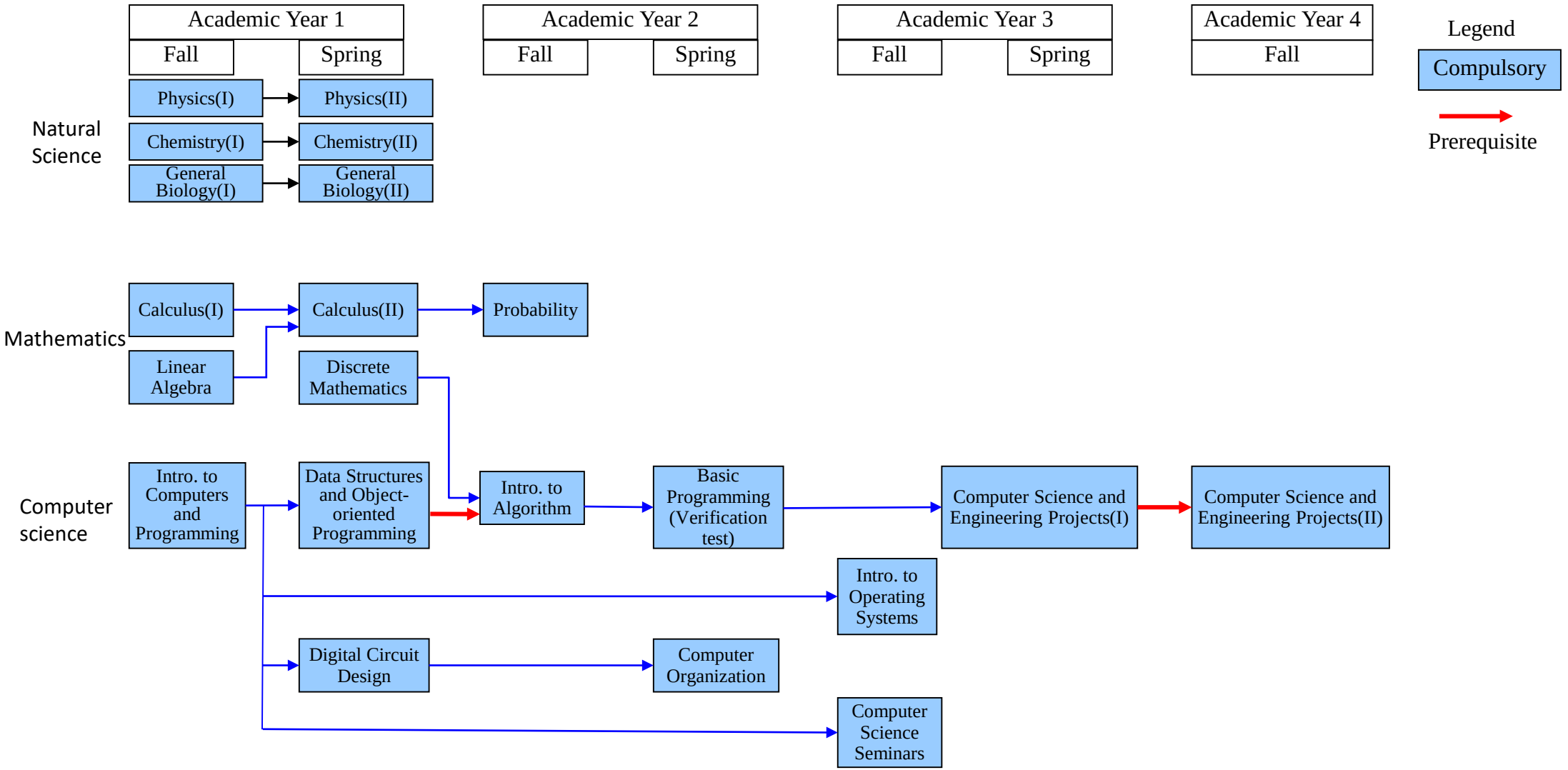
Course Flow (Basic Science & Compulsory courses)

Academic Year 2019



Course Flow of Seven Topics Program

Academic Year 2019

Legend

- Program Compulsory
- Program Compulsory
- Common Compulsory of 2 Programs

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

(Theory of Computation:
Choose four courses from the right column)