Curriculum for B.S. Computer Science

Rowan University

Intro to Object-Oriented Programming

CS Learning Community ("LiBBy")

Discrete Math

Calculus I

Calculus II

Object-Oriented Programming & Data Abstraction

Humanistic Literacy

Computers and Society

Introductory Mechanics

Linear Algebra

Deep Learning

Prob. & Stat for CS

Foundations of Computer Science

Computer Organization

Data Structures & Algorithms

Requires, as pre- or co-requisite

Computer Lab Techniques

Intro Android Programming

Intro IOS Programming

Intro to Computer Animation

Machine Learning

Cyber Operations

OR

Adv. Android Programming

Adv. IOS Programming

Permission of instructor

CS Research I

CS Research II

Cyber Security

Principles of Digital Computing

Cloud Computing and IoT

Intro to IoT Upper Stack

Bank 1

Does not need DSA as a prereq

Needs DSA as a prereq

Intro to Data Mining

Distributed Systems

Database Systems

Web Program.

Human Computer Interaction

Object Oriented Design

Computer Vision

Data Comm and Networking

Design & Analysis of Algorithms

Web & Text Mining

Intro to Info Visualizatn

Selected Topics in CS

Intro to Computer Graphics

Intro Comp. Game Design

Intro Sys Simulation & Modeling

Artificial Intelligence

Computer Cryptography

Advanced Computer Architecture

Intro Tech Writing

Writing Intensive

Robotics

OR Cryptography & Blockchain Essentials as prereqs

Parallel and Concurrent Programming

Requires, as pre- or co-requisite

Operating Systems

College Comp. II

Public Speaking

Principles Network Security

Theory Of Computing

Big Data Tools and Techniques

Software Engineering I

Permission of instructor

Wireless Networks

TCP / IP and Internet Technologies

Computer Lab Techniques

Blockchain Programming

Programming Languages

Computer Lab Techniques

Data Warehousing

Topics Mobile Programming

Embedded Systems Programming

Software Engineering II

Adv Learning Asst Experience

Must take four restricted electives which must include at least one from Bank 1

Cyber Operations

Compiler Design

System Program. and O.S. Internals

Comp. Field Experience

Senior Project

Required CS course

Bank 1 Restricted CS elective

Bank 2 Restricted CS elective

Required Math course

Free Elective

Required non-CS course

Lab/Science Course

CS Pre-requisite

non-CS Pre-requisite

Co- or Pre-requisite (Arrow points to pre-/co-req)

Fall 2023