14+5+4
2021-22 Course Map to a BS in Computer Science
Concentration: Robotics & Embedded Systems

**CS 13011: CS-IA Procedural Programming**
**CS 13012: CS-IB Object Oriented Programming**
**CS 23022 Discrete Structures**

14 CS Core Courses

- CS 35101 Computer Organization
- CS 23001:CS-II Data Structures
- CS 33211 Operating Systems
- CS 32301 Human Interface Computing
- CS 44001:CS-III Programming Patterns
- CS 33101 Programming Languages

- CS 35201 Computer Networks
- CS 33901 Software Engineering
- CS 33007 Database Design
- CS 46101 Algorithms

- CS 49999 Capstone

4 Math Courses

- MATH 12002 Calculus I
- Math 20011 Decision Making Under Uncertainty
- MATH 21002 Applied Linear Algebra
- MATH 12013 Brief Calculus II

Use 5 CS Electives to build concentration(s) or breadth

- CS 23301/2 Robotic & Embedded Systems Lab I & II
- CS 43302, CS 43303, QR CS 43334

**Concentration Elective**
**CS 3/4xxxx**

**Concentration Elective**
**CS 4xxxx**

**Can be CS 43016, 43105, 43118, 43203, 43301, 43302, 43303, or 43334**