# BRAC University
## CSE Program
(For students admitted in Spring 2005 or later)

### Standard Sequence of Courses

| Semester | Courses | | | | |
|---|---|---|---|---|---|
| 1 | ENG 101: English Fundamentals (3 credits) | MAT 110: Mathematics I (3 credits) | CSE 110: Programming Language I (3 credits) | PHY 111: Principles of Physics I (3 credits) | |
| 2 | ENG 102: English Composition (3 credits) | MAT 120: Mathematics II (3 credits) | DEV 101: Bangladesh Studies (3 credits) | HUM 103: Ethics and Culture (3 credits) | STA 201: Elements of Statistics and Probability (3 credits) |
| 3 | CSE 111: Programming Language II (3 credits) | PHY 112: Principles of Physics II (3 credits) | MAT 215: Mathematics III (3 credits) | *COD I<br>BNG101 | |
| 4 | CSE 220: Data Structures (3 credits) | CSE 230: Discrete Mathematics (3 credits) | CSE 250: Circuits and Electronics (3 credits) | *COD II<br>ECO101 | |
| 5 | MAT216: Mathematics IV (3 credits)<br>HQU | CSE 221: Algorithms (3 credits) | CSE 251: Electronic Devices and Circuits (3 credits) | CSE 260: Digital Logic Design (3 credits) | |
| 6 | CSE 330: Numerical Methods (3 credits) | CSE 340: Computer Architecture (3 credits) | *COD III<br>BUS102 | *COD IV | |
| 7 | CSE 341: Microprocessors (3 credits) | CSE 350: Digital Electronics and Pulse Techniques (3 credits) | *COD V | *COD VI | |
| 8 | CSE 310: Object Oriented Programming (3 credits) | CSE 321: Operating System (3 credits) | CSE 331: Automata and Computability (3 credits) | CSE 360: Computer Interfacing (3 credits) | |
| 9 | CSE 320: Data Communications (3 credits) | CSE 470: Software Engineering (3 credits)  MSI | CSE 370: Database Systems (3 credits) | CSE 423: Computer Graphics (3 credits) | |
| 10 | CSE 420: Compiler Design (3 credits) | CSE 421: Computer Networks (3 credits) | CSE 460: VLSI Design (3 credits) | CSE 471: Systems Analysis and Design (3 credits) | |
| 11 | CSE 400: Internship/ Thesis (4 credits) | CSE 422: Artificial Intelligence (3 credits) | CSE 461: Digital System Design (3 credits) | *COD VII | |

*COD = COURSE OUTSIDE DEPARTMENT i.e. this course cannot be a CSE/CS course (3 Credits)