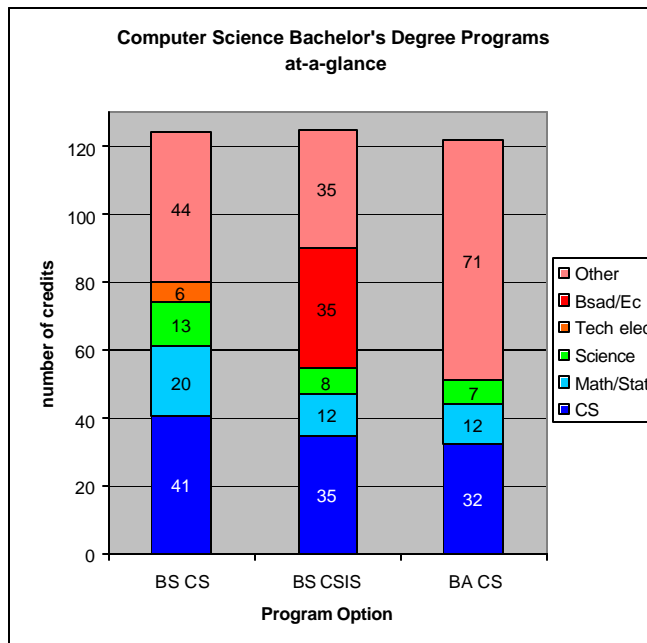


# UNDERGRADUATE COMPUTER SCIENCE AT UVM

## Bachelors Degree Options:

- 1) BS CS: Bachelor of Science in Computer Science (College of E&M) – *Most technical, follows CSAB accreditation guidelines.*
- 2) BS CSIS: Bachelor of Science, Major in Computer Science and Information Systems (College of E&M) – *Interdisciplinary program combining Computer Science and Business Administration.*
- 3) BA CS: Bachelor of Arts, Major in Computer Science (College of A&S) – *Most flexible; liberal arts education with a Computer Science major; facilitates double-majors.*



An accelerated Master's degree program is available through all options, enabling top students to earn a Master's degree in Computer Science with only one additional year of study.

## Computer Science Courses Typically Taken by CS majors

### First Year Courses:

CS 14 – Visual Basic (BS CSIS only)  
 CS 21 & CS 26 – Programming I and II

### Sophomore Courses:

CS 100 – Object-oriented programming  
 CS 101 – Computer Organization  
 CS 104 – Data Structures  
 CS 103 – Programming Languages (BS CS and BA CS)  
 CS 148 – Database Design for the Web (BS CSIS)

### Typical Junior/Senior CS electives: (BS CS – 7 courses; BS CSIS – 4 courses; BA CS – 4 courses)

|                                 |  |
|---------------------------------|--|
| CS 201 - Operating Systems      | CS 251 - Artificial Intelligence         |
| CS 202 - Compiler Construction  | CS 256 - Neural Computation              |
| CS 204 - Database Systems       | CS 260 - Parallel Programming            |
| CS 205 - Software Engineering   | CS 265 - Computer Networks               |
| CS 222 - Computer Architecture  | CS 266 - Network Security & Cryptography |
| CS 224 - Analysis of Algorithms | CS 274 - Computer Graphics               |
| CS 243 - Theory of Computation  |  |

**Senior Seminar:** CS 292 – Senior Seminar