

COMPUTER SCIENCE CURRICULUM CONTENT

| Area | Courses | Credit Hours |
|---------------------------------|--|--------------|
| Basic Science | Science Electives | 16 |
| | (must include a two-course lab sequence) | <u>16</u> |
| Computer Science | Computing and Algorithms I | 4 |
| | Computing and Algorithms II | 4 |
| | Computing and Algorithms III | 4 |
| | The Computing Professional | 4 |
| | Computer Science Technical Electives | 16 |
| | Discrete Mathematics | 4 |
| | Functional Languages and Parsing | 4 |
| | Operating Systems | 4 |
| | Software Engineering | 4 |
| | Systems Programming Concepts | 4 |
| | Theory of Computation | <u>4</u> |
| | 56 | |
| Computer Engineering | Digital Systems I | 4 |
| | Microcomputers I | <u>4</u> |
| | | 8 |
| General Education | Advanced Humanities Elective | 4 |
| | Advanced Social Science Elective | 4 |
| | Economic Principles | 4 |
| | Introduction to the Humanities | 4 |
| | Introduction to the Social Sciences | 4 |
| | Liberal Studies Electives | 8 |
| | Senior Seminar | 4 |
| | Written & Oral Communication I | 4 |
| Written & Oral Communication II | <u>4</u> | |
| | 40 | |
| Mathematics | Calculus I | 4 |
| | Calculus II | 4 |
| | Multivariate Calculus | 4 |
| | Probability and Statistics | 4 |
| | Mathematics Elective | <u>4</u> |
| | 20 | |
| | Free Electives | <u>16</u> |
| | | 16 |
| | Orientation | <u>1</u> |
| | | 1 |
| | Thesis | <u>4</u> |
| | | 4 |
| | Total Credits | 161 |