

Department of Computer Science Degree Comparisons – Curriculum 2005

B. S. in Computer Science

Computer Science – 48 Credits

4 – CP SC 101 Computer Science I
 4 – CP SC 102 Computer Science II
 4 – CP SC 212 Algorithms and Data Structures
 3 – CP SC 215 Tools/Tech. For Software Development
 4 – CP SC 231 Intro. To Machine Organization
 1 – CP SC 291 Seminar in Professional Issues I
 3 – CP SC 322 Intro. to Operating Systems
 3 – CP SC 330 Computer System Organization
 3 – CP SC 350 Foundations of Computer Science
 3 – CP SC 360 Networks and Network Programming
 3 – CP SC 362 Distributed and Cluster Computing
 3 – CP SC 372 Intro. Software Development
 3 – CP SC 428 Design Implementation of Programming Languages

1 – CP SC 491 Seminar in Prof. Issues II
 6 – Computer Science Requirement

Mathematical Sciences – 17 Credits

4 – MTHSC 106 Calculus of One Variable I
 4 – MTHSC 108 Calculus of One Variable II
 3 – MTHSC 119 Intro to Discrete Methods
 3 – MTHSC 302 Stats. For Science and Engr. *or*
 3 – MTHSC 301 Stat. Theory and Methods I
 3 – MTHSC 311 Linear Algebra

English and Communications – 12 Credits

3 – ENGL 103 Advanced Composition
 3 – Literature Requirement
 3 – Oral Communications Requirement
 3 – Advanced Writing Requirement

Humanities and Social Sciences – 15 Credits

3 – Humanities Requirement (non-literature)
 6 – Social Science Requirement
 6 – Humanities/Social Science Requirement

Natural Science – 14 Credits

3 – PHYS 122 Physics with Calculus I
 3 – PHYS 221 Physics with Calculus II
 8 – Natural Science Requirement

Emphasis Area – 9 Credits

9 – Emphasis Area

Other – 7 Credits

7 – Elective

122 Total Semester Hours

B. S. in Computer Information Systems

Computer Science – 39 Credits

4 – CP SC 101 Computer Science I
 4 – CP SC 102 Computer Science II
 4 – CP SC 212 Algorithms and Data Structures
 3 – CP SC 215 Tools/Tech. For Software Development
 4 – CP SC 231 Intro. To Machine Organization
 1 – CP SC 291 Seminar in Professional Issues I
 3 – CP SC 322 Intro. To Operating Systems
 3 – CP SC 360 Networks and Network Programming
 3 – CP SC 372 Intro. Software Development
 1 – CP SC 491 Seminar in Prof. Issues II
 3 – CP SC 462 Database Management Systems
 6 – Computer Science Requirement

Information Systems– 6 Credits

3 – System Analysis Requirement
 3 – Information Systems Requirement

Business – 24 Credits

3 – ECON 211 Principles of Microeconomics
 3 – ACCT 201 Accounting Concepts I
 3 – ACCT 202 Accounting Concepts II
 3 – MKT 301 Principles of Marketing
 3 – MGT 301 Principles of Management
 3 – MGT 312 Decision Models for Management
 6 – Business Requirement

Mathematical Sciences – 17 Credits

4 – MTHSC 106 Calculus of One Variable I
 4 – MTHSC 108 Calculus of One Variable II
 3 – MTHSC 119 Intro to Discrete Methods
 3 – Statistics Requirement
 3 – Linear Algebra Requirement

English and Communications – 12 Credits

3 – ENGL 103 Advanced Composition
 3 – Literature Requirement
 3 – Oral Communications Requirement
 3 – Advanced Writing Requirement

Humanities and Social Sciences – 12 Credits

3 – Humanities Requirement (non-literature)
 6 – Social Science Requirement
 3 – Humanities/Social Science Requirement

Natural Science – 8 Credits

8 – Natural Science Requirement

Other – 4 Credits

4 – Elective
 122 Total Semester Hours

B. A. in Computer Science

Computer Science – 39 Credits

4 – CP SC 101 Computer Science I
 4 – CP SC 102 Computer Science II
 4 – CP SC 212 Algorithms and Data Structures
 3 – CP SC 215 Tools/Tech. For Software Development
 4 – CP SC 231 Intro. To Machine Organization
 1 – CP SC 291 Seminar in Professional Issues I
 1 – CP SC 491 Seminar in Prof. Issues II
 18 – Computer Science Requirement (300-level Computer Science courses or above)

Minor – 15 Credits

15 – Minor (a minimum of 5 courses in another field)

Foreign Language – 14 Credits

14 – Foreign Language Requirement (2 years of same language)

Mathematical Sciences – 14 Credits

4 – MTHSC 106 Calculus of One Variable I
 4 – MTHSC 108 Calculus of One Variable II
 3 – MTHSC 119 Intro to Discrete Methods
 3 – MTHSC 302 Stats. For Science and Engr. *or*
 3 – MTHSC 301 Stat. Theory and Methods I *or*
 3 – MTHSC 311 Linear Algebra

English and Communications – 12 Credits

3 – ENGL 103 Advanced Composition
 3 – Literature Requirement
 3 – Oral Communications Requirement
 3 – Advanced Writing Requirement

Humanities and Social Sciences – 15 Credits

6 – Social Science Requirement
 6 – Humanities Requirement
 3 – Fine Arts Requirement

Natural Science – 8 Credits

8 – Natural Science Requirement

Other – 5 Credits

5 – Elective

122 Total Semester Hours