2012 Program Electives

Computer Science

Elective Courses
Three additional elective courses. Select two from Group A and one from Group B.

Group A
CSCD 303 Computer & Information Security (4)
CSCD 305 C++ Programming (4)
CSCD 306 .NET Programming (4)
CSCD 316 Practical Problem Solving (2, 2) \(^1\)
CSCD 378 Web Application Development (4)
CSCD 379 .NET Web Application Development (4)
CSCD 409 Scientific Programming (4)
CSCD 416 3D Modeling & Animation II (4) \(^2\)
CSCD 417 3D Modeling & Animation III (4)
CSCD 418 (3D Modeling & Animation IV (4)
CSCD 420 Automata (4)
CSCD 421 Automata & Languages (4)
CSCD 422 Compiler Design (4)
CSCD 427 Advanced Database Systems (4)
CSCD 429 Data Mining (4) \(^2\)
CSCD 433 Advanced Network Concepts (4)
CSCD 434 Network Security (4)
CSCD 435 Principles of Programming Languages (4)
CSCD 437 Secure Coding (4)
CSCD 454 Design Patterns (4)
CSCD 460 Advanced Architecture and Organization (4)
CSCD 461 Embedded Systems (4)
CSCD 467 Concurrent Systems (4)
CSCD 470 3D Computer Graphics Principles (4)
CSCD 471 Advanced 3D Computer Graphics (4) \(^3\)
CSCD 474 Computer Game Development (4)
CSCD 487 Human Computer Interface (4)
CSCD 495 Internship (two 4-5-credit internships are allowed)

CSCD 396, 398, 399, 3xx, 439, 496, 498, 499, 4xx (4-5) prior departmental approval of topic content is required.

Group B
Must choose at least one course from the following list:
Any General Education Natural Science Course
BIOL 173 Biology III (4)
CHEM 153 General Chemistry III (5)
GEOL 122 Historical Geology (5)
MATH 163 Calculus III (5)
MATH 241 Calculus IV (5)
MATH 370 Survey of Geometrics (5)
MATH 401 Advanced Formal Logic (5)
PHIL 301 Introduction to Formal Logic (5)
PHYS 153 General Physics III (4)

And one of the following not previously taken:
PHYS 161 Mechanics Laboratory (1)
PHYS 162 Heat and Optics Laboratory (1)
PHYS 163 Instrumentation Lab I (1)
PHYS 164 Instrumentation Lab II (1)
Other course with prior approval of the department required.

Notes:
No course may be used to satisfy both an elective and an advanced coursework requirement
\(^1\) CSCD 316 must be taken twice for 4 credits to be counted as an elective
\(^2\) CSCD 216 prerequisite for CSCD 416
\(^3\) CSCD 470 prerequisite for CSCD 471

3/16/12