B.S. in COMPUTER AND INFORMATION SCIENCE  (120 credits)  Date

Information System Option – CISO

Curriculum Sheet for Catalog Year  Winter 2008

CECS DISTRIBUTION Requirements  21

ENGLISH COMPOSITION  (6)
Composition Placement Exam required, and
Take both COMP 105 (3) & COMP 270 (3)

ECONOMICS  (3)
ECON 201 (3) Macroeconomics

HUMANITIES (See Notes * & **)
Two courses, 100- to 400-level, 6 credits, from
AFRICAN/AFRICAN-AM, HUM (AAAS)
AAAS 239, 275, 385, 389, 469, 470
ART HISTORY (ARTH)
COMMUNICATIONS (COMM)
COMM 220, 250, 300/400-level
COMPARATIVE LITERATURE (COML)
ENGLISH (ENGL)
FILM STUDIES (FILM)
FOREIGN LANGUAGE
MUSIC HISTORY (MIHS)
PHILOSOPHY (PHIL)
SCIENCE/TECH STUDIES, HUM (STS)
STS 300, 307, 312, 403, 410, 485, 488
WOMEN/GEN STUDIES, HUM (WGST)
WGST 275, 385, 386, 387, 416, 425, 445

BEHAVIORAL/SOCIAL SCIENCES **
Two courses, 100- to 400-level, 6 credits, from
AFRICAN/AFRICAN-AM, SSCI (AAAS)
AAAS 106, 275, 320, 322, 325, 349, 369, 403
ANTHROPOLOGY (ANTH)
ECONOMICS (ECON)
ECON 202, ECON 300-level only
GEOGRAPHY (GEOG)
GEOG 201, 205, GEOG 300-level only
HISTORY (HIST)
POLITICAL SCIENCE (POL)
PSYCHOLOGY (PSYC)
SCIENCE/TECH STUDIES, SSCI (STS)
STS 300, 308, 309, 321, 325, 340, 345,
349, 365, 374, 383, 385, 386, 409,
421, 430, 441, 442, 464
SOCIOLOGY (SOC)
WOMEN/GEN STUDIES, SSCI (WGST)
WGST 275, 325, 326, 338, 362, 370, 405, 406, 407, 420

Mathematics, Sciences, & Cognates  39

MATHEMATICS & STATISTICS  (18)
MATH 115 (4) Calculus I
MATH 116 (4) Calculus II
MATH 275 (4) Discrete Structures I
IMSE 317 (3) Probability/Statistics
MATH 227 (3) Linear Algebra

LABORATORY SCIENCE Sequence  (8)
Two courses, 8 credits, in 1 sequence from:
BIOL 130 (4) & BIOL 140 (4)
or CHEM 134 (4) & CHEM 136 (4)
or CHEM 144 (4) & CHEM 146 (4)
or GEOL 118 (4) & GEOL 218 (4)
or PHYS 125 (4) & PHYS 126 (4)
or PHYS 150 (4) & PHYS 151 (4)

BUSINESS & OPERATIONS RESRCH
The following four courses, 13 credits:
ACC 297 (3) Accounting I
OB 354 (3) Organizational Behavior
IMSE 3005 (4) Operations Research
ENGR 400 (3) Applied Bus Techniques

CECS Courses  & Electives  60
CIS CORE  – 7 courses (28 credits)
CIS 150 (4) Computer Science I
CIS 200 (4) Computer Science II
CIS 310 (4) Computer Organiztn
& Assembly Language
CIS 350 (4) Data Structures
CIS 375 (4) Software Engineering
CIS 427 (4) Computer Networks
& Distributed Systems
CIS 450 (4) Operating Systems

CISI – Programming Lang  (3 credits)
One of the following two courses:
CIS 294 (3) Visual Basic
CIS 296 (3) Java Programming

Required in CISI  – 5 courses (16 credits)
CIS 421 (4) Database Systems
CIS 4261 (4) Information Sys Dsgn I
CIS 4262 (4) Information Sys Dsgn II
CIS 4951 (2) Design Seminar I
CIS 4952 (2) Design Seminar II

CISI Electives  (6 credits)
Six (6) credits from the following:
CIS 285 (3) Software Engr Tools
CIS 297 (3) C# Programming
CIS 306 (4) Discrete Structures II
CIS 376 (4) Software Engineering II
CIS 381 (3) Industrial Robotics
CIS 400 (4) Programming Lange
CIS 405 (3) Algorithm Analys/Design
CIS 423 (3) Decision Support
& Expert Systems
CIS 435 (3) Web Technology
CIS 437 (3) Advanced Networking
CIS 447 (3) Compt & Network Security
CIS 451 (3) Computer Graphics
CIS 452 (3) Computer Animation
CIS 474 (3) Compiler Design
CIS 476 (3) Softw Arch/ Design Patterns
CIS 479 (3) Artificial Intelligence
CIS 487 (3) Computer Game Design I
CIS 488 (3) Computer Game Design II
CIS 495 (3) Embedded Systems

GENERAL ELECTIVES  (7-8 credits)
Students who took 294, 296, or 297 for
3 credits need 7 credits of Gen Electives.
Students who took 294, 296, or 297 for
2 credits need 8 credits of Gen Electives.
See note to left **

** Avoid NO-CREDIT courses.
NO-CREDIT courses posted outside
2000 EC and listed at end of CECS
.edu/SRA/pdf/Student_Handbook.pdf

NO-CREDIT courses DON`T count
for the degree.  NO-CREDIT courses
include ARTH 105, ECON 305,
POL 300, PSYC 381, SOC 383,
STAT 325, and many others.

Check the list!

* Note:  AAAS, STS, and WGST disciplines
have different sets of courses for
Humanities and Beh/Social sciences.

[1/08]