

Information System Option – CISICurriculum Sheet for Catalog Year **Winter 2008**

ID _____

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 (MHIS)

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,

368, 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*

CIS 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) and BIOL 140 (4)

or CHEM 134 (4) and CHEM 136 (4)

or CHEM 144 (4) and CHEM 146 (4)

or GEOL 118 (4) and GEOL 218 (4)

or PHYS 125 (4) and PHYS 126 (4)

or PHYS 150 (4) and PHYS 151 (4)

BUSINESS & OPERATIONS RESRCH

The following four courses, 13 credits:

ACC 298 (3) *Accounting I*

OB 354 (3) *Organizational Behavior*

IMSE 3005 (4) *Operations Research*

ENGR 400 (3) *Applied Bus Techniques*

CIS 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 Organizatn
& 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 Langs*

CIS 405 (3) *Algorithm Anlys/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*

CCM 404 (3) *Dynamical Systems*

CCM 472 (3) *Numerical Analysis*

CCM 473 (3) *Matrix Computation*

ECE 372 (4) *Microprocessors*

ECE 473 (4) *Embedded Systems*

GENERAL ELECTIVES (7-8 credits)

Students who took CIS 294 or 296 for
3 credits need 7 credits of Gen Electives.

Students who took CIS 294 or 296 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
Handbook: www.engin.umd.umich.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!

[2/08]

* Note: AAAS, STS, and WGST disciplines
have different courses for Humanities and
for the Behavioral or Social sciences.