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

Information System Option – CISI  

Curriculum Sheet for Catalog Year Fall 2006  

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 or 275; AAAS 385, 389, 464, 470  
ART HISTORY (ARTH)  
COMMUNICATIONS (COMM)  
COMM 220 or 250; COMM 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; STS 307, 312, 403, 410, 485, 488  
WOMEN’S STUDIES, HUM (WST)  
WST 275; WST 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 or 275; AAAS 320, 322, 325, 349, 369, 403  
ANTHROPOLOGY (ANTH)  
ECONOMICS (ECON)  
ECON 202; ECON 300-level only  
GEOGRAPHY (GEOG)  
GEOG 201 or 205; GEOG 300-level only  
HISTORY (HIST)  
POLITICAL SCIENCE (POL)  
PSYCHOLOGY (PSYC)  
SCIENCE/TECH STUDIES, SSCI (STS)  
STS 300; STS 308, 309, 321, 325, 340, 345, 349, 365, 374, 383, 385, 386, 409, 421, 430, 441, 442, 464  
SOCIOLOGY (SOC)  
WOMEN’S STUDIES, SSCI (WST)  
WST 275; WST 325, 326, 338, 362, 370, 405, 406, 407, 420  

Mathematics, Sciences, & Cognates  34  

MATHEMATICS & STATISTICS (13)  
MATH 115 (4) Calculus I  
MATH 116 (4) Calculus II  
One of the following two (Matrix/Linear Alg)  
MATH 217 (2) [or MATH 227 (3)]  
One of the following two (Prob/Statistics)  
IMSE 317 (3) or MATH 425 (3)  

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 297 (3)  
MATH 115 (4)  
MATH 116 (4)  
six (6) credits from the following:  

CIS Courses & Electives  65  

CIS CORE – 8 courses (32 credits)  
CIS 150 (4) Computer Science I  
CIS 200 (4) Computer Science II  
CIS 275 (4) Discrete Structures  
CIS 310 (4) Computer Organization & Assembly Language  
CIS 350 (4) Data Structures  
CIS 375 (4) Software Engineering  
CIS 427 (4) Computer Networks & Distributed Systems  
CIS 450 (4) Operating Systems  

Required in CISI – 5 courses (18 credits)  
One of the following prog lang courses:  
CIS 294 (2) Visual Basic  
CIS 296 (2) Java programming  
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  

CIS Electives for CISI Majors (6 credits)  
Six (6) credits from the following:  
CIS 285 (2) Software Engineering Tools  
CIS 376 (4) Software Engri II  
CIS 381 (3) Industrial Robots  
CIS 423 (3) Decision Support & Expert Systems  
CIS 435 (3) Multimedia Web Dsgn  
CIS 400 (4) Programming Langs  
CIS 451 (3) Computer Graphics  
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  

GENERAL ELECTIVES (9 credits)  
See note below **  

** Avoid NO-CREDIT courses.  
NO-CREDIT courses posted outside 2000 EC and listed at end of CECS Handbook: www.engin.umich.edu/student_services/advising/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 WST disciplines have different sets of courses for Humanities and Beh/Social sciences.  

[3/06]