

2011

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CECS DISTRIBUTION Requirements 24**ENGLISH COMPOSITION**

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

HUMANITIES AREA (See Notes * & **)

Two courses, 100- to 400-level, 6 credits, from

AFRICAN/AFRICAN-AMERICAN (AAAS)

AAAS 239, 275, 385, 389, 469, 470

ART HISTORY (ARTH)

COMMUNICATIONS (COMM)

COMM 220, COMM 300/400-level

COMPARATIVE LITERATURE (COML)

ENGLISH (ENGL)

JOURNALISM & SCREEN STUDIES (JASS)

FOREIGN LANGUAGE

MUSIC HISTORY (MHIS)

PHILOSOPHY (PHIL)

SCIENCE/TECH STUDIES (STS)

STS 300, 307, 312, 403, 410, 485, 488

WOMEN/GENDER STUDIES (WGST)

303, 385, 386, 387, 416, 425, 445, 487

BEHAVIORAL/SOCIAL SCIENCES (* & **)

Two courses, 100- to 400-level, 6 credits, from

AFRICAN/AFRICAN-AMERICAN (AAAS)

AAAS 106, 275, 316, 320, 322, 325, 345,

349, 368, 369, 371, 386, 387, 403, 404

ANTHROPOLOGY (ANTH)

ECONOMICS (ECON)

GEOGRAPHY (GEOG)

GEOG 201, 205, GEOG 300-level only

HISTORY (HIST)

POLITICAL SCIENCE (POL)

PSYCHOLOGY (PSYC)

SCIENCE/TECH STUDIES (STS)

STS 300, 308, 309, 321, 325, 340, 345,

349, 365, 374, 383, 385, 386, 409,

421, 430, 441, 442, 464

SOCIOLOGY (SOC)

WOMEN/GENDER STUDIES (WGST)

WGST 303, 325, 326, 338, 362, 370,

405, 406, 407, 420

* SEQUENCE W/ UPPER-LEVEL COURSE:

Two of the four courses above, in either the Humanities Area OR the Behavioral /Social Sciences Area, must be **in the same discipline** and at least one of them **300- or 400-level**.

ECONOMICS (3 credits)

ECON 201 or ECON 202 (*Macro or Micro*)

Requirements below for all engineering majors, **except NOT** for Bioengineering:

FIFTH COURSE (3 credits) **

One Humanities Area or Behav/Social Sciences

Area course, 100 to 400 level, from above

OR one CECS 300/400-level course in the major.

BASIC PREP Requirements**INTRO to ENGINEERING**

ENGR 100 (2 credits)

MATHEMATICS (16 credits)

MATH 115 (4) *Calculus I*

MATH 116 (4) *Calculus II*

MATH 205 (3) *Calculus III*

MATH 216 (3) *Diff Equations*

MATH 217 (2) *Matrix Algebra*

CHEMISTRY I

CHEM 144 (4)

(CHEM 134 for Bioengineering)

PHYSICS I and II

PHYS 150 (4)

PHYS 151 (4)

PROFESSIONAL Requirements**BIOENGINEERING**

ENGR 126 (2) *Computer Graphics*

CHEM 136 (4) *Chemistry II*

BIO 103 (4) *Anatomy & Physiology*

BIO 140 (4) *Molecular & Cell Bio*

ENGR 250 (3) *Engr Materials*

ENGR 216 (2) *Computer Methods*

ME 230 (4) *Thermodynamics*

ME 265 (4) *Design Stress Analysis*

OTHER specific credits to total 128

COMPUTER ENGINEERING

OR

ELECTRICAL ENGINEERING

ECE 210 (4) *Circuits*

ECE 270 (4) *Computer Methods I*

ECE 273 (4) *Digital Systems*

IMSE 317 (3) *Probability & Stats*

OTHER specific credits to total 125

INDUSTRIAL & SYSTEMS ENGR

OR

MANUFACTURING ENGINEERING

ENGR 126 (2) *Computer Graphics*

One of the following 2 courses:

CHEM 146 (4) *Chemistry II*

BIO 103 (4) *Anatomy & Phys*

ENGR 250 (3) *Engr Materials*

IMSE 255 (3) *C Programming*

ME 265 (4) *Applied Mechanics*

IMSE 317 (3) *Probability & Stats*

OTHER specific credits to total 128

MECHANICAL ENGINEERING

ENGR 126 (2) *Computer Graphics*

CHEM 146 (4) *Chemistry II*

ENGR 250 (3) *Engr Materials*

ENGR 216 (2) *Computer Methods*

ME 230 (4) *Thermodynamics*

ME 260 (4) *Design Stress Analysis*

OTHER specific credits to total 128

IMPORTANT NOTE!

Curriculum requirements sheets for the latest catalog in each major, including CIS and Software Engineering, are available online:

www.engin.umd.umich.edu/SRA/circ_requir.php <link>

The B.S. in Computer and Information Science or in Software Engineering have different sets of requirements. (120 credits). [11/10]

** **Avoid NO-CREDIT courses.**

List posted by 2000 EC & listed at end of CECS Handbook: <link>

www.engin.umd.umich.edu/SRA/pdf/Student_Handbook.pdf

NO-CREDIT courses DON'T count towards the degree. NO-CREDIT courses include: ARTH 105, ECON 305, PSYC 381, SOC 383, and many others! **Check the list!**