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FALL 2017 Catalog Year Curriculum Sheet

DEARBORN DISCOVER CORE Requirements 24

WRITTEN AND ORAL COMM. (6 credits)

Composition Placement Exam required

COMP 105 (3) and

COMP 270 (3)

Both required if not taken to fulfill DDC Written and Oral Communication

HUMANITIES AND THE ARTS (6 credits)

See DDC approved list in Degree Works or HTTPS://APP.SMARTSHEET.COM/B/PUBLISH?EQBC T=DAFF687F800B4FE89910A9CEA66B1627

SOCIAL AND BEH. ANALYSIS (9 credits)

ECON 201 or ECON 202 (3 cr) is REQUIRED If not taken in fulfillment of DDC Soc. and Beh. Analysis

Other (6 credits) must be chosen from DDC approved list in Degree Works or

HTTPS://APP.SMARTSHEET.COM/B/PUBLISH?EQBC T=DAFF687F800B4FE89910A9CEA66B1627

INTERSECTIONS (6 credits)

ENT 400 (3 cr) is a REQUIRED RE major course

Certain ANTH, HIST, POL and SOC classes can fulfill both an Intersections requirement and a Social & Beh. Analysis requirement.

Certain ARTH classes can fulfill both an Intersections and a Humanities & Arts requirement (3 cr).

Prerequisites apply. See list for courses that fulfill both requirements:

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Important DDC Notes:

- DDC requirements apply to Freshmen admitted fall 2015 and later, and to Transfers admitted fall 2017 and later.
- Many DDC courses fulfill multiple categories. However, a single DDC course may be used for a maximum of three DDC categories
- RE students MUST graduate with a minimum 125 credits

BASIC PREP Requirements 37

INTRO to ENGINEERING

ENGR 100 (2)

MATHEMATICS (16 credits) (Fulfills DDC Quant. Thinking)

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 & PHYSICS (12) (Fulfills DDC Natural Sciences)

CHEM 144 (4) Chemistry I

PHYS 150 (4) Physics I

PHYS 151 (4) Physics II

One ME course (4)

ME 265 Applied Mechanics

PROBABILITY & STATISTICS (3)

IMSE 317 (3) Engr Prob & Stats

PROFESSIONAL Requirements 64

ECE CORE – 5 Courses (20 credits)

ECE 210 (4) Circuits

ECE 270 (4) Computer Methods I

ECE 273 (4) Digital Systems

ECE 311 (4) Electronics Circuits I

ECE 3731 (4) Microprocessors and Embedded Systems

(ECE 3731 Fulfills DDC Critical and Creative Thinking)

RE CORE - 11 courses (38 credits)

ECE 347 (4) Applied Dynamics

ECE 3641 (4) Robots I w. Lab

ECE 3171 (4) Analog & Discrete Signals & Sys

IMSE 381 (4) Industrial Robots

ECE 460 (4) Automatic Control Systems//ME442Cont.

Sys. Ana & des

ECE 4641 (4) Robots II w. Lab

ME 472 (4) Prin & Appl of Mechatronic Sys

ECE 4881 (3) Introduction to Robot Vision

ECE 4951 (3) System Design w/ Microcontrollers

ECE 4987 (2) Robotics Engineering Capstone Design I

ECE 4988 (2) RoboticsEngineering Capstone Design II

(Senior Design Courses fulfill DDC Upper-Level Writing And Capstone Experience)

PROFESSIONAL ELECTIVES (6 credits) **Choose two courses from the following list**

CIS/ECE 479 (4) Artificial Intelligence

ECE 370 (4) Adv. Software. Tech. in C.E.

ECE 434 (4) Machine Learning in Eng.

ECE 471 (4) Data Communications and Networks

ECE 473 (4) Embedded System

ECE 480 (4) Digital Signal Processing

ECE 491 (1~4) Directed Studies

IMSE 489 (3) Robotics Systems Simulation

ME 3601 (4) Des and Ana. Mach Elem

** Beware NO-CREDIT

courses. **

NO-CREDIT listed at end of CECS

Handbook:

https://umich.app.box.com/s/6a5c4j9hwlc tnppzy7o2xjmvlrtumvoj