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DEARBORN DISCOVERY CORE (DDC)

Requirements 27

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)

PHIL/CRJ 240 (3) *Ethics* is REQUIRED

If not taken in fulfillment of DDC Humanities and Arts

Other (3 credits) must be chosen from DDC approved list in Degree Works or

[HTTPS://APP.SMARTSHEET.COM/B/PUBLISH?EQBCT=DAFF687F800B4FE89910A9CEA66B1627](https://app.smartsheet.com/b/publish?EQBCT=DAFF687F800B4FE89910A9CEA66B1627)

SOCIAL AND BEH. ANALYSIS (9 credits)

Take one of the following two courses:

ECON 201 (3) *Macroeconomics*

ECON 202 (3) *Microeconomics*

Take OB 354 (3) *Organizational Behavior*

Take CRJ 200 (3) *Intro to Criminal Justice*

All three courses required if not taken in fulfillment of DDC Soc. and Beh. Analysis

INTERSECTIONS (6 credits)

Courses must be chosen from DDC approved list in Degree Works or

[HTTPS://APP.SMARTSHEET.COM/B/PUBLISH?EQBCT=DAFF687F800B4FE89910A9CEA66B1627](https://app.smartsheet.com/b/publish?EQBCT=DAFF687F800B4FE89910A9CEA66B1627)

The following CIA ELECTIVES satisfy the Intersections requirement: CIS 479 (3), ENGR 400 (3), ENT 400 (3), IMSE 421 (3)

MATHEMATICS and COGNATES 28

MATHEMATICS and STATISTICS (17)

(Fulfills DDC Quant. Thinking)

MATH 115 (4) *Calculus I*

MATH 116 (4) *Calculus II*

CIS 275 (4) *Discrete Structures I*

IMSE 317 (3) *Probability/Statistics*

One of the following two courses:

MATH 217 (2) *Matrix Algebra*, or

MATH 227 (3) *Linear Algebra*

LABORATORY SCIENCE SEQUENCE (8)

(Fulfills DDC Natural Sciences)

Two courses, 8 credits, in a sequence from:

BIOL 130 (4) and BIOL 140 (4)

or CHEM 134 (4) and CHEM 136 (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 (3)

ACC 298 (3) *Financial Accounting*

CIA COURSES and ELECTIVES 68

CIA CORE (35)

CIS 150 (4) *Computer Science I*

CIS 200 (4) *Computer Science II*

CIS 310 (4) *Computer Organization and Assembly Language*

CIS 350 (4) *Data Structures*

CIS 375 (4) *Software Engineering I*

(Fulfills DDC Upper-Level Writing)

CIS 421 (4) *Database Management Systems*

CIS 427 (4) *Computer Networks and Distributed Systems*

CIS 435 (3) *Web Technology*

CIS 450 (4) *Operating Systems*

Choose either the DF Concentration or the CP Concentration

CIA-DF Concentration REQUIRED (29)

CIS 387 (4) *Digital Forensics I*

CIS 467 (4) *Digital Forensics II*

Take one course from the following:

CIS 447 (3) *Intro. Comp. & Network Security*

ECE 426 (3) *Multimedia Forensics*

ECE 427 (3) *Digital Content Protection*

CRJ 468 (3) *Criminology*

CRJ 475 (3) *Digital Evidence*

CRJ 487 (3) *Forensic Science Evidence*

Take one of the following courses:

CRJ 409 (3) *Intel and Homeland Security*, or

CRJ 474 (3) *Cybercrimes*

Electives (6)* From Approved list below

CIA-CP Concentration REQUIRED (29)

CIS 280 (3) *Practical Computer Security*

CIS 447 (3) *Computer and Network Security*

CIS 490B (3) *Wireless & Mobile Computing Security*

CIS 4851 (3) *Data Security and Privacy*

CRJ 409 (3) *Intelligence and Homeland Security*

ECE 427 (3) *Digital Content Protection*

MATH 396 (3) *Introduction to Cryptography*

Electives (8)* From Approved list below

CAPSTONE (4)

CIS 4951 (2) *Design Seminar I*

CIS 4952 (2) *Design Seminar II*

(Senior Design Courses fulfill DDC

Critical/Creative Thinking And Capstone

Experience)

***CIA ELECTIVES**

Select electives not used to fulfil the requirements of your concentration

CIS 280 (3) *Practical Computer Security*

CIS 285 (3) *Software Engineering Tools*

CIS 299 (1) *Coop/Internship*

CIS 376 (4) *Software Engineering II*

CIS 381 (4) *Industrial Robotics*

CIS 387 (4) *Digital Forensics I*

CIS 399 (1) *Coop/Internship*

CIS 425 (4) *Information Systems*

CIS 436 (3) *Mobile Application Design and Implementation*

CIS 437 (3) *Advanced Networking*

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
- CIA students **MUST** graduate with a minimum **123 credits**

**** Beware NO-CREDIT courses. ****

NO-CREDIT listed at end of CECS Handbook:
<https://umich.app.box.com/s/6a5c4j9hw1ctnppzy7o2xjmv1rtumvoj>

CIS 447 (3) *Computer and Network Security*
CIS 467 (4) *Digital Forensics II*
CIS 476 (3) *Software Architecture and Design Patterns*
CIS 479 (3) *Artificial Intelligence*
CIS 487 (3) *Computer Game Design & Implementation I*
CIS 499 (1) *Coop/Internship*
CRJ 474 (3) *Cybercrimes*
CRJ 475 (3) *Digital Evidence*
CRJ 487 (3) *Forensic Science Evidence*
CRJ 490J (3) *Intel and Homeland Security*
ECE 372 (4) *Microprocessors*
ECE 426 (3) *Multimedia Forensics*
ECE 427 (3) *Digital Content Protection*
ECE 428 (3) *Cloud Computing*
ECE 435 (4) *Intro to Mobile/Smart Device and Tech*
ECE 473 (4) *Embedded Systems*
ENGR 399 (1) *Prof Pract Engr & CS*
ENGR 400 (3) *Applied Business Techniques*
ENT 400 (3) *Introduction to Entrepreneurship*
IMSE 421 (3) *Engineering Economy and Decision Analysis*
ITM 383 (3) *Information Technology Security*