Database Concentration 2020 – 2021

ITEC 110 Principles of Information Technology

MATH 125 or 138 >= C; or MATH 126, 168, or 171 credit; or permission.

+ ITEC 120 Principles of Computer Science I

MATH 151, 169, or 171

Math: See Catalog

* MATH 171 Calculus

STAT 200 or STAT 301

+ ITEC 220 Principles of Computer Science II

ITEC 225 Web Programming I

ITEC 345 Intro. to Info. Security

ITEC 322 Discrete Mathematics

ITEC 3/4XX CSDB Technical Elec.

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ITEC 340 Database. I

ITEC 320 Procedural Analysis and Design

ITEC 324 Principles of Computer Science III

ITEC 490 Senior Seminar / IT Professionalism

ITEC 325 Web Programming II

ITEC 445 Computer System and Database Security **OR** ITEC 645 Information Security, Privacy, and Reliability

ITEC 441 Database. II

ITEC 442 Data Warehousing, Mining, and Reporting

Offered Only In Fall

Offered only in Spring

Fall and/or Spring offerings are expected, but not guaranteed.

Prerequisite

Prerequisite: must have >= "C" to advance

* **MATH 171** can be replaced by MATH 168 & MATH 169.
+ **ITEC 120 & ITEC 220** can only be attempted twice, including Withdrawals

Courses in bold boxes must be passed with a grade of "C" or better

Major GPA Requirement: 2.0 in all ITEC, MATH, STAT courses applied to the major, excluding courses used to meet the B.S. Requirement.
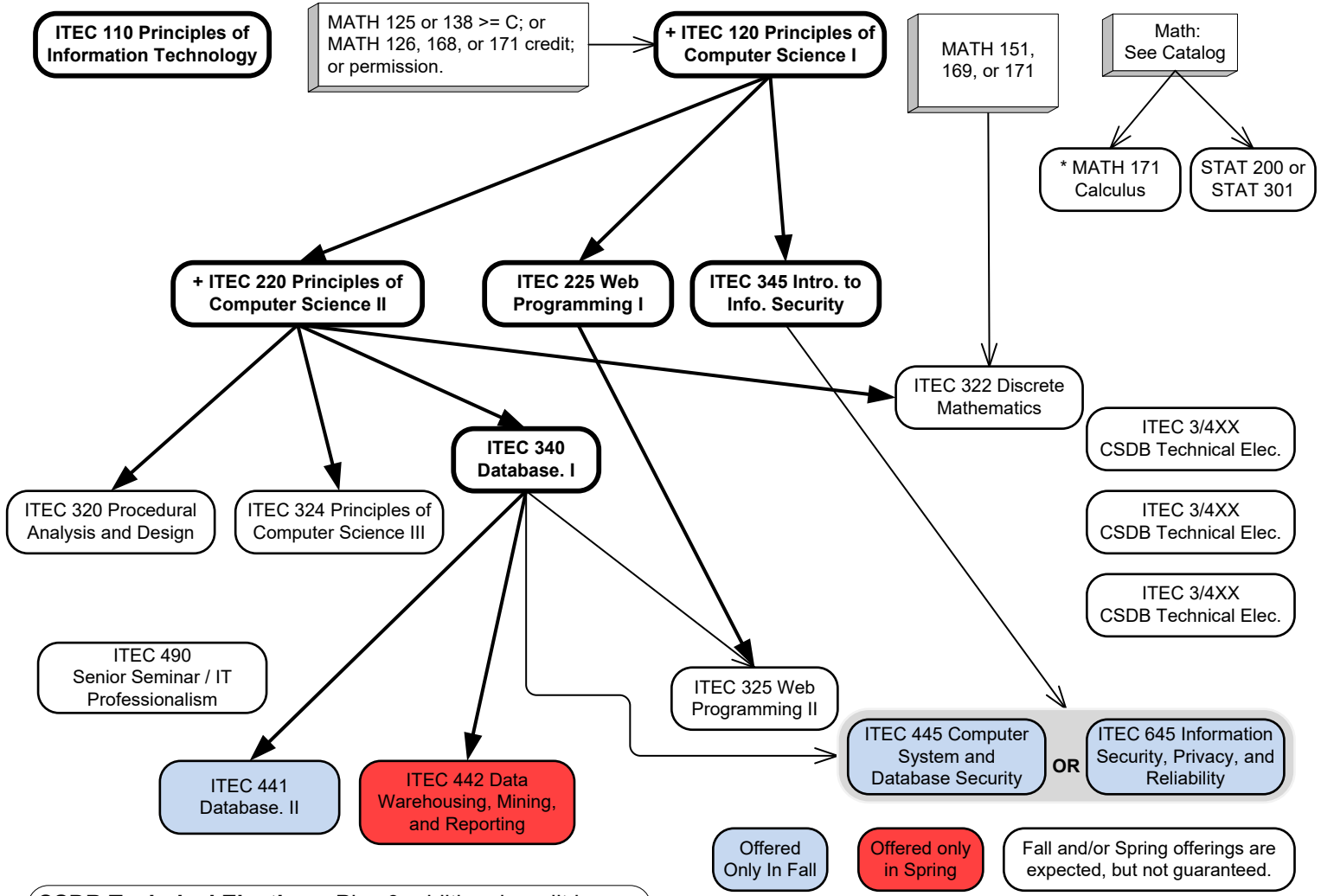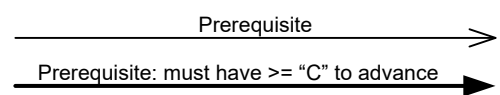
CSDB Technical Electives: Plus 9 additional credit hours chosen from any 300 or 400-level ITEC courses (except ITEC 301, ITEC 304, ITEC 307, ITEC 369, ITEC 381, ITEC 395, ITEC 398, ITEC 466, ITEC 493, ITEC 495, ITEC 496, ITEC 497, or ITEC 498) or any 500 or 600-level ITEC course approved by the Department Chair.

B.S. Requirements (6-8 credits):
Any 200-level, 300-level, or 400-level ITEC course (except ITEC 281, ITEC 301, ITEC 304, ITEC 307, ITEC 369, ITEC 381, ITEC 398, ITEC 495, ITEC 496, ITEC 497, and ITEC 498) or any 500 or 600-level ITEC course approved by the Department Chair; MATH 172; any 200-level or above Math course; ASTR 111, ASTR 112, any Biology (except BIOL 301 and BIOL 302); any Chemistry; any Geology, GEOS 250 or ITEC 250, any Physics, or PHSC 301.

Courses used to meet the B.S. Requirements for a degree cannot be used to meet any other requirements for that degree.

Students with more than one concentration and/or major should evaluate each independently.

Core Curriculum:
MATH 171 is approved for Core Curriculum credit in the Mathematical Sciences.

Students in the IT Department are required to take a Natural Science course to fulfill the College Core B Mathematical or Natural Sciences Requirement.

See 2020 - 2021 Catalog for additional requirements and prerequisites.

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