

# B.S. in Computer Science

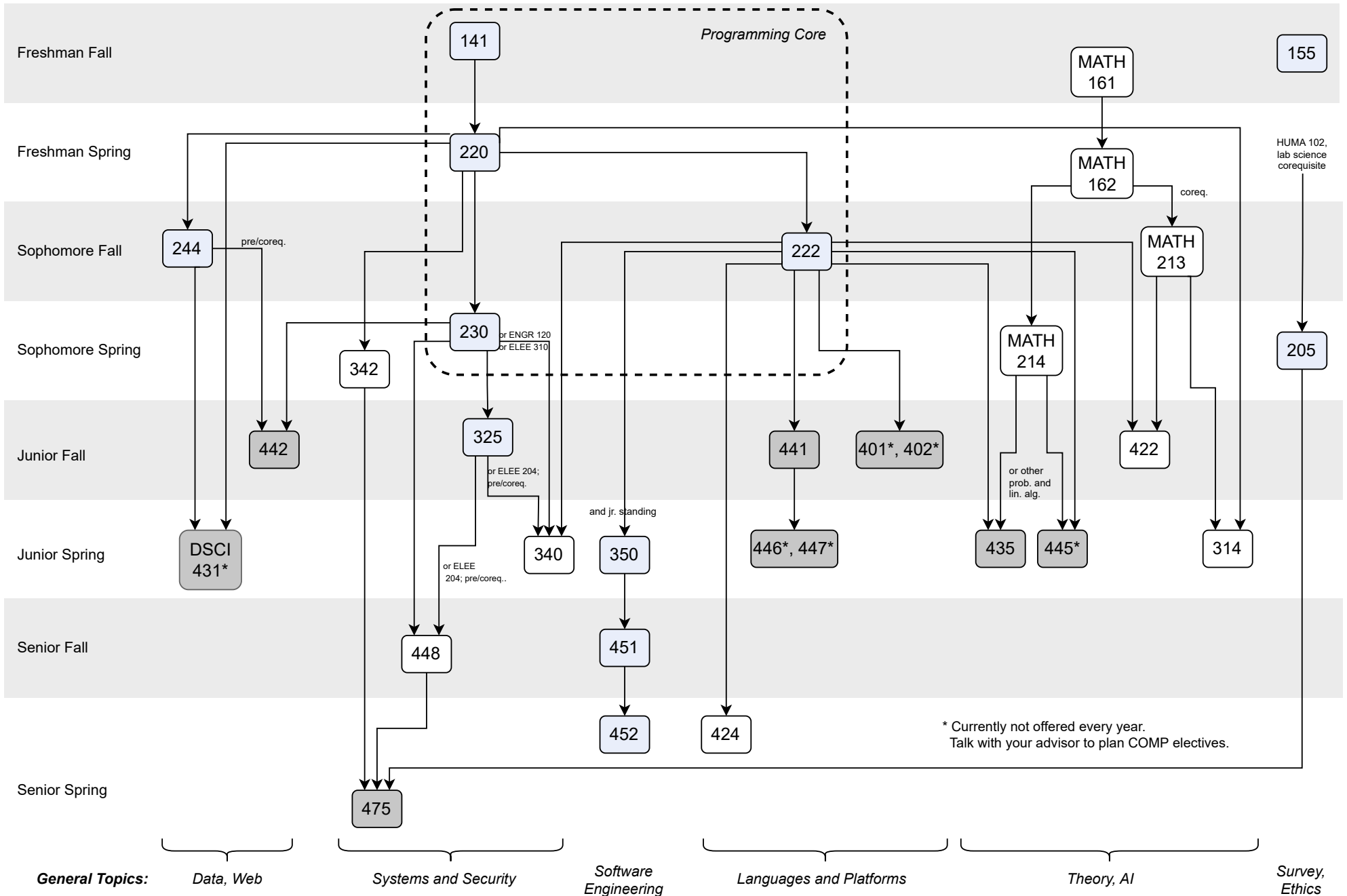
This is an unofficial visualization of the required COMP and MATH courses. Consult the college bulletin for official degree requirements and prerequisites.

Courses are COMP unless otherwise noted. Arrows indicate prerequisites.

Required for B.S. in Computer Prog.

Electives

See bulletin for full requirements, which include one of COMP 340 or 342 and three math courses



## **Course Titles**

COMP 141: Computer Programming I

COMP 155: Introduction to Computer Science

COMP 205: Ethics, Faith, and the Conscious Mind

COMP 211: Python Programming

COMP 220: Computer Programming II

COMP 222: Introduction to Data Structures and Algorithms

COMP 230: Advanced Programming

COMP 244: Database Management Systems

COMP 314: Automata Theory

COMP 325: Computer Architecture and Organization

COMP 340: Operating Systems

COMP 342: Data Communication and Networking

COMP 350: Software Engineering

\*COMP 401: Principles of iOS Programming

\*COMP 402: Principles of Android Programming

COMP 422: Theory of Algorithms

COMP 424: Parallel and Distributed Computing

COMP 435: Introduction to Machine Learning

COMP 441: 2D Game Design and Development

COMP 442: Web Programming Technologies

\*COMP 445: Introduction to Artificial Intelligence

\*COMP 446: 3D Game Design and Development

\*COMP 447: Networked Game Design and Development

COMP 448: Computer Security

COMP 451: Senior Project I

COMP 452: Senior Project II

COMP 475: Advanced Security

DSCI 201: Introduction to Data Science

\*DSCI 431: Introduction to Big Data

DSCI 450: Applied Modeling and Visualization

MATH 161: Calculus I

MATH 162: Calculus II

MATH 213: Discrete Math for Computer Science

MATH 214: Applied Probability and Linear Algebra