

UMSL

Computer Science

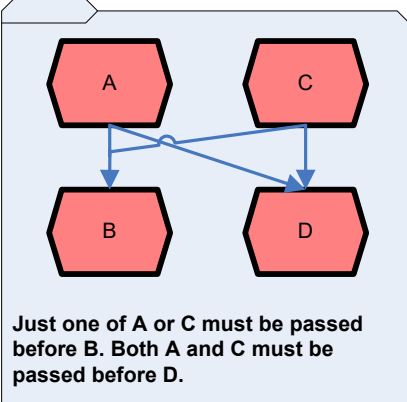
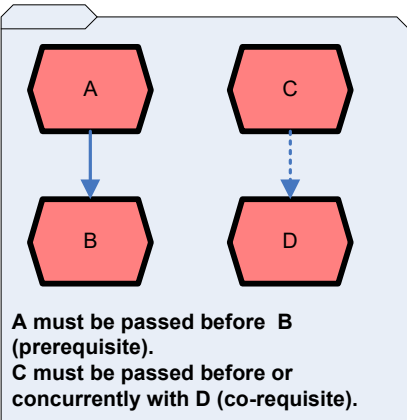
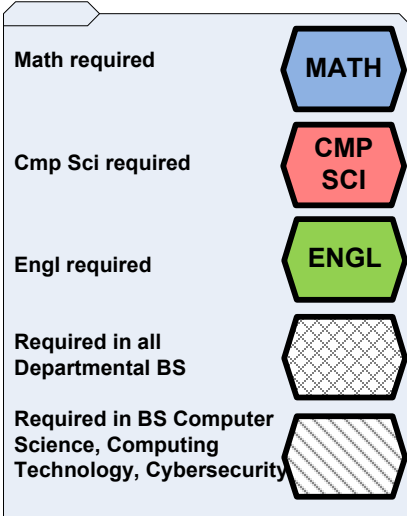
UMSL is a NSA/DHS National Center of Excellence in Cyber Defense Education



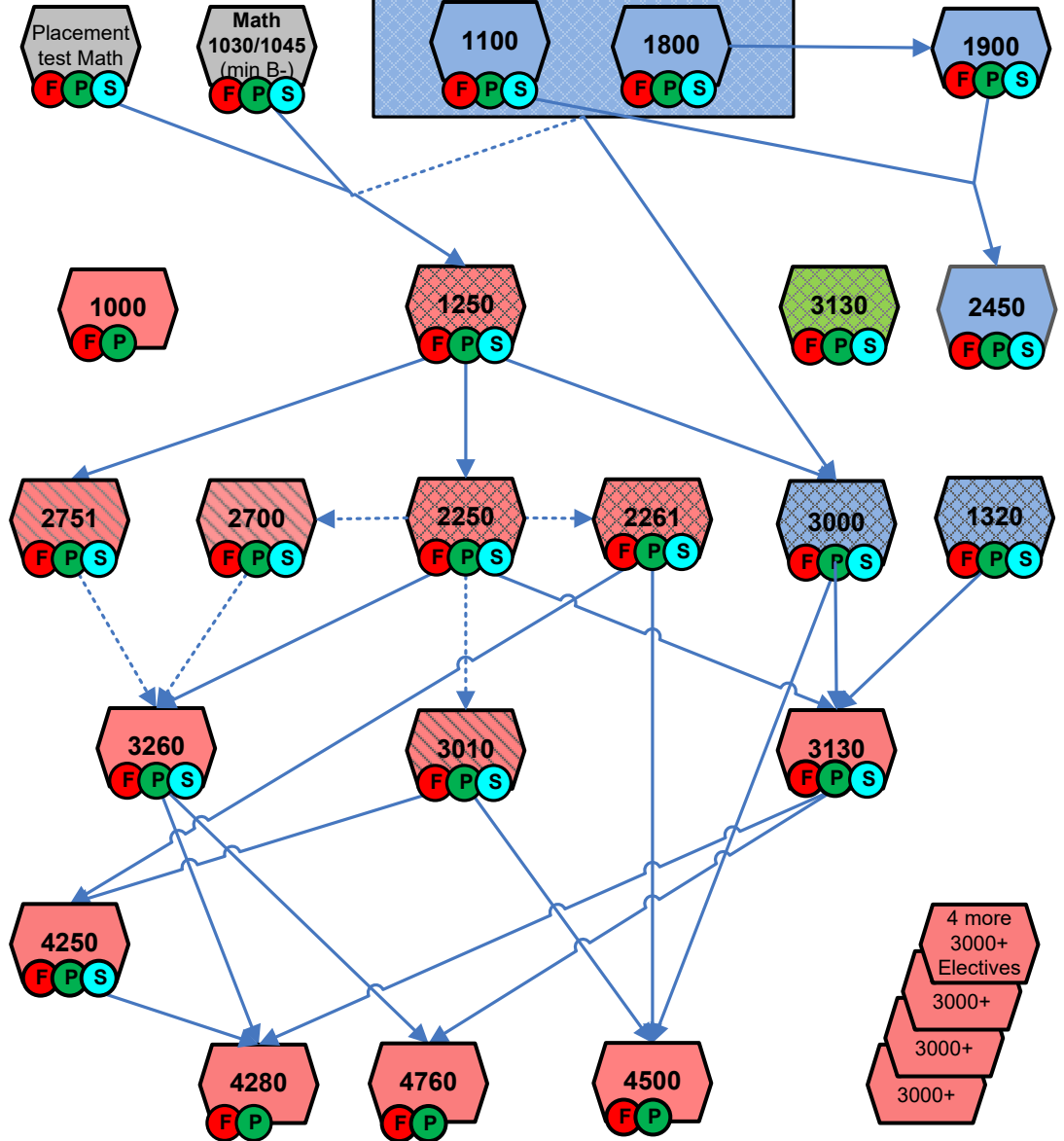
V1/12/2025

BS in Computer Science

The diagram below shows the requirements for the major. In addition to these required courses, students must also take four additional CMP SCI electives, at the 3000-level or above. All these courses require a grade of at least C-. Students must also pass ENGL 3130 and satisfy the UMSL general education requirements. Prerequisite courses should be taken first, since they must be completed before enrolling in a later course; however, waivers may be granted based on training/experience. Most courses are available both in class and online asynchronously. The program can be completed with a combination of evening/online and possibly online only courses with some arrangements.



Computing Technology and Cybersecurity require **either** Math 1100 or 1800 but Computer Science and Data Science/CS emphasis require Math 1800. Students unsure of degree should take Math 1800



Students with any introductory general purpose programming background, but without 1250 transferred in, can request to start with 2250. This may require a rudimentary review of basic Python syntax and functions if unfamiliar. Such students will have 1250 credited upon successful completion of 2250 and they can also request to register for 2261, 2700, and/or 3010 concurrently with 2250.

1250 and 2250 can be taken in half semesters, or together in one semester as a combo course (6 credits). Cmp Sci 2261, 2700 and 3010 can only be taken concurrently with a full semester 2250 section.

