UMSL
Computer Science

BS in Computing Technology

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

Stated below are major requirements. In addition to stated required courses, students must also take six additional Cmp Sci electives 2000 and above – at most two of those can be in InfSys and must be preapproved. Program allows credit for prior learning by assessment, and for many credt technology-based courses such as those at community colleges.

All these courses must be passed with at least C- (unless noted otherwise). Students must also pass ENGL 3130. All students must also satisfy general UMSL requirements for a BS degree. Before enrolling in a course, you must first complete each of its prerequisite courses. Some waivers are possible based on experience.

Legend:

- Math required — **MATH**
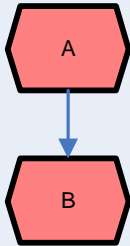- Cmp Sci required — **CMP SCI**
- Engl required — **ENGL**
- InsSys required — **InfSys**
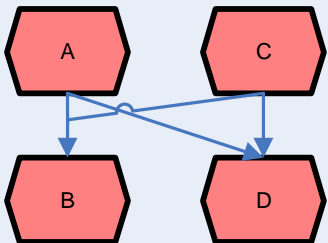- Required in all Departmental BS

A must be passed before B (prerequisite).
C must be passed before or concurrently with D (co-requisite).

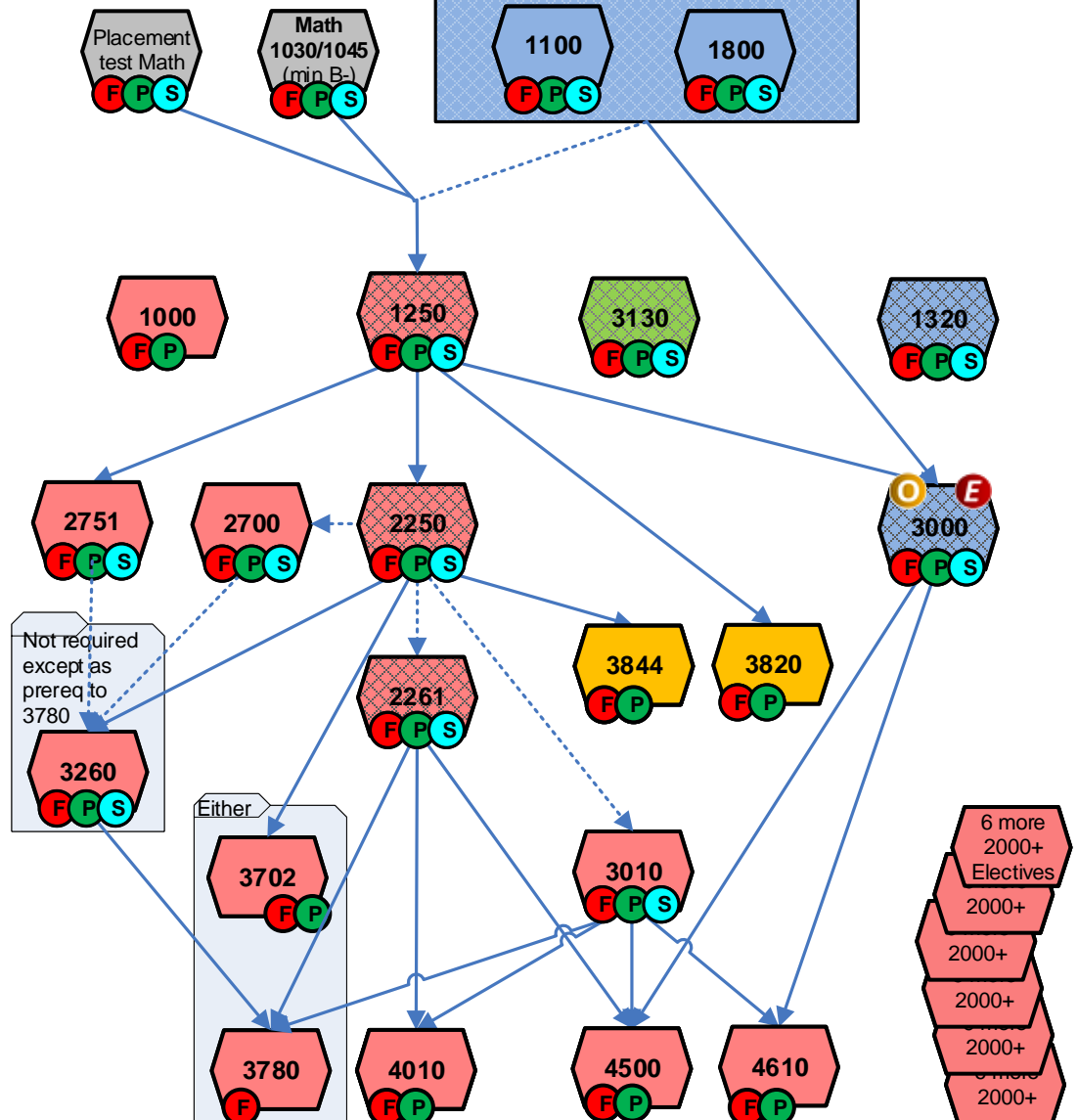**Just one of A or C must be passed before B. Both A and C must be passed before D.**

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

1100 F P S
1800 F P S

Placement test Math — F P S
Math 1030/1045 (min B-) — F P S

1000 F P
1250 F P S
3130 F P S
1320 F P S

2751 F P S
2700 F P S
2250 F P S
O E 3000 F P S

Not required except as prereq to 3780

3260 F P S

2261 F P S
3844 F P
3820 F P

Either
3702 F P

3010 F P S

3780 F
4010 F P
4500 F P
4610 F P

6 more 2000+ Electives
2000+
2000+
2000+
2000+
2000+

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) when offered. Cmp Sci 2261, 2700 and 3010 can only be taken concurrently with a full semester 2250 section.

Typical availability
Fall — F
Spring — P
Summer — S