

CS MAJOR COURSES OFFERING CYCLE SHEET

	Fall		Spring
2020 (even)	Math 135 Pre-Calculus I Math 171 Calculus I Math 172 Calculus II Math 210 Statistics Math 217 Linear Algebra Phys 221 Physics CS 112 Programming I (two sections) CS 311 Data Structures CS 489 CS Research	2021 (odd)	Math 136 Pre-Calculus II (eq.171) Math 171 Calculus I Math 172 Calculus II Math/CS 205 Logic and Proof Math 210 Statistics CS 110 VB CS 112 Programming I CS 212 Programming II CS 440 OS CS 389 CS Topics CS 489 CS Research
2021 (odd)	Math 135 Pre-Calculus I Math 171 Calculus I Math 172 Calculus II Math 210 Statistics Math 217 Linear Algebra Phys 221 Physics CS 112 Programming I (two sections) CS 212 Programming II CS 310 Computer Systems CS 311 Data Structures CS 380 Programming Languages CS 489 CS Research	2022 (even)	Math 136 Pre-Calculus II (eq.171) Math 171 Calculus I Math 172 Calculus II Math/CS 205 Logic and Proof Math 210 Statistics Math 310 Statistical Models CS 110 VB Math/CS 350 Numerical Methods CS 112 Programming I CS 212 Programming II CS 389 CS Topics CS 489 CS Research

Notes:

1. Each semester: CS 112, CS 212, Math 171, Math 172, Math 210, CS 489 (CS 389 is recommended before taking CS 489)
2. Each fall: Math 135, Math 217, Phys 221, CS 311
3. Each spring: Math 136, Math 172, Math/CS 205, CS 110, CS 389 (formerly CS 480)
4. Odd falls: CS 310, CS 380
5. Odd springs: CS 440
6. Even springs: Math 310, Math/CS 350
7. Math/CS 350 can't be counted twice for a double-major of Math and CS. In other words, if Math 350 is counted towards the math major, it can't be counted again for the CS major.

4-YEAR PLAN (B.A.)

Major Courses Starting from Math 104

Year 1

Fall: Math 104 Algebra

Spring: CS 110 Visual Basic (recommended); CS 112 Computer Programming I

Year 2

Fall: CS 112 Computer Programming I (if needed); CS 212 Computer Programming II; Math135 Pre-Calculus I

Spring: CS 212 Computer Programming II (if needed); CS 300/400 elective; Math210 Statistics

Year 3

Fall: CS 310 Computer Systems (odd year); CS 311 Data Structures

Spring: Math/CS 205 Logic and Proof; CS 389 CS Topics; CS300/400 elective

Year 4

Fall: CS 310 Computer Systems (odd year, if needed); CS 311 Data Structures (if needed); CS 300/400 elective; CS 489 CS Research Project (if needed)

Spring: CS 300/400 elective (if needed); CS 489 CS Research Project (if needed)

Note: For starting from Math 135 or Math 136, the above schedule could be done directly from year-2. That means the degree could be finished in 3 years.

4-YEAR PLAN (B.S.)

Major Courses Starting from Math 104

Year 1

Fall: Math104 Algebra

Spring: CS110 Visual Basic (recommended); CS112 Computer Programming I

Year 2

Fall: CS112 Computer Programming I (if needed); CS212 Computer Programming II; Math135 Pre-Calculus I

Spring: CS212 Computer Programming II (if needed); CS300/400 elective; Math 136 Pre-Calculus II (Eq. Math171 Calculus I); Math210 Statistics

Year 3

Fall: CS310 Computer Systems (odd year); CS311 Data Structures; CS300/400 elective; Phys 221 Physics

Spring: Math/CS205 Logic and Proof; CS389 CS Topics; CS300/400 elective

Year 4

Fall: CS310 Computer Systems (odd year, if needed); CS311 Data Structures (if needed); CS300/400 elective (if needed); CS489 CS Research Project; Math217 Linear Algebra

Spring: CS300/400 elective (if needed); CS489 CS Research Project (if needed)

Note: For starting from Math 135 or Math 136, the above schedule could be done directly from year-2. That means the degree could be finished in 3 years.