COURSE SELECTION GUIDE FOR 3-YEAR MAJOR IN COMPUTER SCIENCE

All the Major and Minor programs offered by the **School of Computer Science** involve a common set of core course, so it is a good idea to take these in the U1 year, even if you are not sure which program you want to follow.

NOTE: Prerequisites are not optional but are required by the student to satisfy before taking a higher-level course. This is to ensure students are prepared to take on courses at the next level.

- **Possible Streams for 3-year Major in Computer Science with sufficient program background.**
  If you have programmed before, regardless of the language, you should start with *COMP 250: Introduction to Computer Science*, which teaches programming in Java, algorithms and data structures, introduces concepts in the complexity of algorithms and discusses special topics in different area of computer science, such as artificial intelligence, bioinformatics and cryptography.
  Note: Students can take COMP 250 and COMP 206 concurrently; in fact, it is recommended enabling students to proceed to the higher-level courses more rapidly. However if taken separately COMP 250 should be taken first.

Year	Computer Science (COMP)	Mathematics (MATH)
U1	250, 206 (Fall); 251(*252*), 273 (Winter)	222, 240, 223
U2	302, 302, 310 At least two of 330, 350, 360(*362*)	At least one of 318, 323, 324 and 340 *(minimum requirement must include at least one of 323, 340)*
U3	Remaining credits from 300-level or above.	At least one of 318, 323*, 324 and 340* *(*minimum requirement must include at least one of 323, 340)*
NOTE: • We recommend that MATH 240 be taken simultaneously with COMP 202 or COMP 250. • Students usually take 5 courses (15 credits) per term. Options and electives can be added to make up 15 credits each term.		

- Possible Streams for 3-year Major in Computer Science starting with **COMP 202.**
  If you do not have any prior programming experience, you have to start with the course *COMP 202: Foundations of Programming*, which teaches basics of programming in Java.

Year	Computer Science (COMP)	Mathematics (MATH)
U1	202 (Fall); 250, 206 (Winter)	222, 240, 223
U2	251(*252*), 273, 302, 303 Possibly 310 At least one of 330, 350, 360(*362*)	At least two of 318, 323*, 324 and 340* *(*minimum requirement must include at least one of 323, 340)*
U3	Possibly 310 At least one of 330, 350, 360(*362*) Remaining credits from 300-level or above.	
NOTE: • We recommend that MATH 240 be taken simultaneously with COMP 202 or COMP 250. • Students usually take 5 courses (15 credits) per term. Options and electives can be added to make up 15 credits each term. • COMP 202 cannot be taken for credits with COMP 250 or after.		