

## Suggested Course Sequence – B. S. in Computer Science - AY 08-09

This is a **sample** sequence of courses and should only be used as a guide for establishing your schedule. Keep in mind that requirements do change from year to year. The Undergraduate Bulletin (the year you matriculated) is used to establish the specific requirements for the degree.

Fall		<b>Freshman</b>	Spring	
CS114 (Computer Prog. I)	4		CS115 (Computer Prog. II)	4
M144 (Calculus I)	4		M145 (Calculus II)	4
RPW110 (Reading & Writing I)	3		RPW111 (Reading & Writing II)	3
AUCW (AUC Western Heritage)	3		AUCA (AUC Arts)	3
DIA100 (Freshman Dialog P/F)	1			
<i>Total Credits</i>	15		<i>Total Credits</i>	14
Fall		<b>Sophomore</b>	Spring	
CS211 (Arch. & Assembly Lang.)	4		CS220 (Data Structures)	3
M221 (Discrete Math I)	4		<b>M260</b> ♦ (Data Analysis)	4
ECE231 (Digital System Logic)	3		<b>Lab Science</b> ① ♦	4
ECE232 (Digital Laboratory)	1		CMM115 (Communications)	3
PHI110 (Philosophy)	3		AUCC (AUC Culture)	3
<i>Total Credits</i>	15		<i>Total Credits</i>	17
Fall		<b>Junior</b>	Spring	
<b>CS340</b> ♦ (F. Lang. & Automata)	3		CS320 (Programming Languages)	3
CS Elective ③	3		CS360 (Software Development)	3
<b>Lab Science</b> ① ♦	4		<b>M220</b> ♦ (Linear Algebra)	3
ENG140 or Foreign Lang. Lit.	3		<b>Lab Science</b> ① ♦	4
HIS100 or 101 (History)	3		POL100 (Politics)	3
<i>Total Credits</i>	16		<i>Total Credits</i>	16
Fall		<b>Senior</b>	Spring	
CS Elective ③	3		CS451 (Operating Systems)	3
CS Elective ③	3		M/CS Elective ②	3-4
AUCS (AUC Social Context)	3		Social Science Elective	3
Two General Electives	6		Two General Electives	6
<i>Total Credits</i>	15		<i>Total Credits</i>	15-16

### Notes:

- ① Sci. for B.S. in CS: BIO122-123 or CH110-111 or PHY112-113 plus one more 4-credit lab science course.
- ② One upper level mathematics or computer science course.
- ③ One of three upper level computer science courses.
- ♦ This requirement differs from the B. A. in CS. The B. S. requires 3 lab science courses (two of which are sequential sciences for the science major), M260, M220, and CS340. The B. A. requires 2 lab science courses (can be non-sequential), no M260, M220 or CS340 – however an extra Arts course must be taken.
- Computer science majors must take two writing intensive courses.
- Minimum overall average in major: 2.33, all courses in major must be for letter grade (no P/NP).
- A & S requires 120 credit hours for graduation.
- Current base language for the department is Java.
- Students that transfer to CS may have a different set of requirements based on their work at other institutions.