

YSU College of Science, Technology, Engineering & Mathematics
Bachelor of Science (BS) degree
Major: Computer Science
Effective 2012

Department of
Computer Science & Information Systems
Dr. Coskun Bayrak, Chair
Meshel Hall, Room 339
(330) 941-3134; fax (330) 941-2284
<http://www.csis.ysu.edu/>

Requirements for Graduation:

- ___ Min. of 120 total SH
- ___ 41-43 SH in major + Support Courses
- ___ GER model complete
- ___ Residency requirement (transfer students only)

- ___ By 85 sh a request for “graduation evaluation” **MUST** be made with the Academic Advising Center in Moser Hall, Room 2325

- ___ Meet w/ CS program coordinator after graduation evaluation is complete

Advisement for the CS major

PRE – CS:
 Students will be eligible to transfer to the CS major once they have completed all pre-college Math (through MATH 1571) and Writing (through ENGL 1550) course work and at least one course applicable toward the CS major. Further, a departmental GPA of 2.40 or better and an overall YSU GPA of 2.00 or better is required.

Once students have met the above requirements they can transfer their major from “Pre CS” to CS and meet with an advisor in Meshel Hall.

General Education Requirements (GER)				
Dept	Catalog	Course Description	s.h	Grade
Engl	1550	Writing I (CRPT)	3	
Engl	1551	Writing II (Engl 1550)	3	
Math	1571	Calculus 1 (prerequisite Math 1513 or Level 70 on MPT)	4	
Cmst	1545	Communications Foundations (Eligible to take Engl 1550)	3	
Additional GER Courses				
Natural Science (NS) 2 courses				
Arts & Humanities (AH) 2 courses				
PHIL	2625	Introduction to Professional Ethics	3	
Social Science (SS) 2 courses				
Social & Personal Awareness (SPA) 2 courses				
First Year Experience Course				
STEM	1520	STEM First Year Orientation		

*Consult GER website or your advisor
for list of courses meeting GERs*

<http://cms.ysu.edu/general-education/>

- Consult the GER website or your advisor for the list of courses meeting GERs: www.ysu.edu/ger
- Engl. 1550 & 1551 must be completed by 62 SH.
- Placement exam in English and Math required before registration of classes. (Foreign Language placement test is optional.)
- MATH 1500, 1501, 1502, 1503, 1504, 1507, 1508 ENGL 1509, 1512, 1539, 1540, RSS 1510A, B & C. STEM 1511 & CHEM 1501 are remedial and will not count toward graduation total hours.
- A grade of “C” or better is required in the Major and Minor and support courses. Credit/NC Option not permitted in Major/Minor
- Upper division courses have a catalog number of 3700 and above.
- Classes taken and/ or repeated out of sequence will **not** count toward graduation. **Check prerequisites.**
- Residency rule states that the last 30 SH must be completed at YSU; 16 SH in major and 21 SH in Upper Division at YSU.
- Request for **senior evaluation form must be filed by 85 SH**

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Required courses for CS (41 sh) + Support Courses				
Dept	Cat. #	Course Description	sh	gr
CSIS	2610	Programming & Problem Solving (CSIS 1590)	4	
CSIS	3700	Data Structures and Objects (CSIS 2610)	4	
CSIS	3701	Advanced Object-Oriented Programming (CSIS 3700)	3	
CSIS	3740	Computer Organization (CSIS 2610)	3	
CSCI	3710	Introduction to Discrete Structures (CSIS 2610 and Math 1571, or Math 1585H, or Math Placement Level 9 or 90)	3	
CSCI	4890	Computer Projects – <i>Capstone</i> (24 s.h. of computer science including at least 3 s.h. of upper-division CSCI courses)	2-4	
CSCI	5806	Operating Systems (CSIS 3700 and CSIS 3740)	3	
CSCI	5801 or 5814	Software Engineering (CSIS 3701) Computer Architecture (CSIS 3700 and CSIS 3740)	3	
CSCI	5870	Data Structures and Algorithms (CSIS 3700 and CSCI 3710)	3	
12 SH CSCI Electives (From approved list)				

Minor Courses **				
Minors are listed in the Undergraduate Bulletin-minimum of 18sh (6 sh must be upper division) unless otherwise stated by the Department				
Dept	Cat. #	Course Description	sh	gr
Math	1571	Calculus 1 (Math 1513 or MPT score of 70)	4	
Math	1572	Calculus 2 (Math 1571)	4	
Math	3720	Linear Algebra and Matrix Theory (Math 1572)	3	
Stat	3743	Probability and Statistics (Math 1572 or 1585H)	4	
Math	3760	Numerical Analysis 1 (Math 3720 and CSIS 2610)	3	
3-4 hours of course work with MATH 1572 as a prerequisite				

Electives (needed to meet the minimum of 120 sh total)				
Dept	Cat. #	Course Description	sh	gr

Support Courses				
Dept	Cat. #	Course Description	sh	gr
ENGL	3743	Professional & Technical Communication	3	
PHIL	2619	Introduction to Logic	3	
		Free Elective		
		Free Elective		
		Free Elective		
		Free Elective (Upper-Division)		
		Free Elective (Upper-Division)		

Remedial Course Work (will not be counted toward graduation hours)				
Dept	Cat. #	Course Description	sh	gr

Notes:
