

**YSU College of Science, Technology, Engineering & Mathematics**  
**Bachelor of Science in Applied Science (BSAS) degree**  
**Major: Computer Information Systems**  
**(Effective Fall 2013)**

**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
- \_\_\_ 45-47 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/ CIS program coordinator after graduation evaluation is complete

*Advisement for the CIS major*

**PRE – CIS:**  
 Students will be eligible to transfer to the CIS major once they have completed all pre-college Math (through MATH 1507) and Writing (through ENGL 1540) course work and at least one course applicable toward the CIS 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 CIS” to CIS and meet with an advisor in Meshel Hall

<b>General Education Requirements (GER)</b>				
Dept	Catalog	Course Description	s.h	Grade
Engl	1550	Writing I (CRPT)	3	
Engl	1551	Writing II (Engl 1550)	3	
Math	1570	Applied Calculus 1 (prerequisite Math 1513 or Level 50 on MPT)	4	
Cmst	1545	Communications Foundations (Eligible to take Engl 1550)	3	
<b>Additional GER Courses</b>				
<b>Natural Science (NS) 2 courses</b>				
<b>Arts &amp; Humanities (AH) 2 courses</b>				
PHIL	2625	Introduction to Professional Ethics	3	
<b>Social Science (SS) 2 courses</b>				
<b>Social &amp; Personal Awareness (SPA) 2 courses</b>				
<b>First Year Experience Course</b>				
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](http://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 CIS (45-47 sh) + Support Courses				
Dept	Cat. #	Course Description	sh	gr
CSIS	1590	Survey of Computer Science & Information Systems (Math 1507 or Level 40 on MPT)	3	
CSIS	1595 and	Fundamentals of Programming & Problem Solving 1 (CSIS 1590 or MATH 1507)	3	
CSIS	2605 or	Fundamentals of Programming & Problem Solving 2 (CSIS 1595 or concurrent MATH 1513 or 1552 or Lvl 50 on MPT)	3	
CSIS	2610	Programming and Problem Solving (MATH 1513 or Level 50 on MPT)	4	
CSIS	3722	Development of Databases (CSIS 1590)	3	
CSIS	3723	Networking Concepts & Administration (CSIS 2605 or CSIS 2610)	3	
CSIS	3726	Visual/Object-Oriented Programming (CSIS 2605 or CSIS 2610)	4	
CSIS	3760	Electronic Commerce Programming (CSIS 2605 or CSIS 2610)	3	
CIS	4840	Business System Analysis and Design (CIS 3760, CSIS 3722, CSIS 3723, and 3 additional SH of upper-division departmental courses)	4	
<b>21 hours Electives</b> (UD CIS/CSIS/CSCI or CSIS 1525 or CSIS 2620)				
<b>Support Courses</b>				
Dept	Cat. #	Course Description	sh	gr
ACCT	2602	Financial Accounting	3	
ACCT	2603	Managerial Accounting	3	
PHIL	2619	Introduction to Logic	3	
STAT	3717	Statistical Methods (MATH 1552 or 1570)	4	
ENGL	3743	Professional & Technical Communication	3	

**Select required upper division electives from:**

- Any 37xx, 48xx, or 58xx CIS, CSCI, or CSIS courses.
- Any course with PRIOR written approval.

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

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

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

**Notes:**