

College of Science, Technology, Engineering & Math -YSU
Bachelor of Science in Applied Science (BSAS) degree
Major: Information Technology (IT) – Security Option
(Effective Fall 2013)

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

Requirements for Graduation:

- ___ GER model complete
- ___ 62-65 sh in major (includes support courses)
- ___ Min 18 sh in minor
- ___ Support courses complete
- ___ 48 sh of upper division (3700+)
- ___ Min. of 124 ♦ total sh
- ___ Residency requirement (transfer students only)
- ___ Min. of a 2.00 overall GPA

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

- ___ Meet w/your dept. chair after graduation evaluation is complete

Advisement for the IT major

PRE – IT:

Students are initially advised from the Academic Advising Center, College of Science, Technology, Engineering, & Mathematics (STEM) in Moser Hall, 2nd floor, until they have completed the following requirements: English 1539/1540; Math 1507; CSIS 1590 or 2605/2610 with a “B” or higher; overall GPA of 2.00.

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

General Education Requirements (GER)				
Dept	Catalog	Course Description	sh	Grade
Engl	1550	Writing I (CRPT)	3	
Engl	1551	Writing II (Engl 1550)	3	
Cmst	1545	Comm Theory & Practice (eligibility to take Engl 1550)	3	
Math	1552	Applied Math for Management (prerequisite Math 1507 or Level 4 on MPT)	4	
or Math	1570	Applied Calculus 1 (prerequisite Math 1513 or Level 5 on MPT)	4	
or Math	1571	Calculus I (prerequisite Math 1513 or Level 7 on MPT)	4	
Natural Sciences (NS) - 2 courses				
Arts & Humanities (AH) - 2 courses				
Social Science (SS) - 2 courses				
Social & Personal Awareness (SPA) – 2 courses				
GER Elective				
1 course from any of the above domains: 3 s.h.				

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

<http://web.ysu.edu/ger>

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- 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*

Information Technology Systems - BSAS Security Option

Required courses for IT (62-65 sh)				
Dept	Cat. #	Course Description	sh	gr
CSIS	1525	Survey of Modern Operating Systems (CSIS 1500)	3	
CSIS	1590	Survey of Computer Science & Info Systems (Math 1507 or Level 4 on placement)	3	
CSIS	1595	Fundamentals of Programming & Problem Solving 1 (CSIS 1590 or MATH 1507)	3	
	2605	Fundamentals of Programming & Problem Solving 1 (CSIS 1595 or concurrent MATH 1513 or 1552 or Lvl 5 on MPT)	3	
	2610	Programming & Problems Solving (Math 1513 or Level 5 on MPT)	4	
CSIS	3722	Development of Databases (CSIS 1590)	3	
CSIS	3723	Networking Concepts & Administration (CSIS 2605 or CSIS 2610)	3	
	3782	Cisco Networking Academy I (CSIS 1590 and either CSIS 2605 or 2610) By permit only.	4	
CSIS	3755	Information Assurance (CSIS 1590)	3	
CSIS	3756	Security Design (Either CSCI 5806 or CSIS 3755 and either CSIS 1525 or CIS 3718)	3	
CSIS	3757	Computer Forensics (CSIS 3755)	3	
CSIS	5824	Applied Artificial Intelligence (CSIS 3700 and 3 s.h. of upper-division departmental courses, or CSIS 6901)	3	
CSIS	5857	Encoding and Encryption (CSIS 2605 or 2610; Math 1548 or 1571; and at least 3 s.h. of upper-division departmental courses.	3	
INFO	2663	IT Management (CSIS 1590)	3	
INFO	3704	Business Communication (Engl 1551)	3	
INFO	3774	Multimedia Technology (CSIS 1590)	4	
INFO	4880	Information Technology Analysis & Design (CSIS 3722; CSIS 3723 or 3782)	3	
Required Electives (15sh)				
At least 15 sh of upper division IT, CSIS, CIS or CSCI courses. (In addition to the above courses.)				
Support Courses				
STAT	2601	Introductory Statistics (MATH 1507 or level 40 on MPT)	3	

Select required upper division electives from:

- Any 37xx, 48xx, or 58xx CSIS or INFO courses.
- Any 48xx or 58xx CIS or CSCI 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 124 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: