**College of Science, Technology, Engineering & Math -YSU**  
**Bachelor of Science in Applied Science (BSAS) degree**  
**Major: Information Technology (IT) – Security Option**  
**Effective 2012**

**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**
- **58-60 sh in major**
- **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**

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**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 1500/1501; CSIS 1590 or 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.

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

[http://web.ysu.edu/ger](http://web.ysu.edu/ger)

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- 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**
# Information Technology Systems - BSAS

## Security Option

### Required courses for IT (58-60 sh)

<table>
<thead>
<tr>
<th>Dept</th>
<th>Cat. #</th>
<th>Course Description</th>
<th>sh</th>
<th>gr</th>
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<tbody>
<tr>
<td>CSIS</td>
<td>1525</td>
<td>Survey of Modern Operating Systems (CSIS 1500)</td>
<td>3</td>
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<tr>
<td>CSIS</td>
<td>1590</td>
<td>Survey of Computer Science &amp; Info Systems (Math 1501 or Level 3 on placement)</td>
<td>3</td>
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</tr>
<tr>
<td>CSIS</td>
<td>1560 or 2610</td>
<td>Basic Programming or Programming &amp; Problems Solving (CSIS 1590)</td>
<td>3 or 4</td>
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<tr>
<td>CSIS</td>
<td>3722</td>
<td>Development of Databases (CSIS 1590)</td>
<td>3</td>
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<tr>
<td>CSIS</td>
<td>3723 or 3782</td>
<td>Networking Concepts &amp; Administration (CSIS 1590) or Cisco Networking Academy I (CSIS 1590)</td>
<td>3 or 4</td>
<td></td>
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<tr>
<td>CSIS</td>
<td>3755</td>
<td>Information Assurance (CSIS 1590)</td>
<td>3</td>
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<tr>
<td>CSIS</td>
<td>3756</td>
<td>Security Design (Either CSCI 5806 or CSIS 3755 and either CSIS 1525 or CIS 3718)</td>
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<tr>
<td>CSIS</td>
<td>3757</td>
<td>Computer Forensics (CSIS 3755)</td>
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<tr>
<td>CSIS</td>
<td>5824</td>
<td>Applied Artificial Intelligence (CSIS 3700 and 3 s.h. of upper-division departmental courses)</td>
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<tr>
<td>CSIS</td>
<td>5857</td>
<td>Encoding and Encryption (CSIS 1560 or 2610; Math 1548 or 1571; and at least 3 s.h. of upper-division departmental courses.</td>
<td>3</td>
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<tr>
<td>INFOT</td>
<td>2663</td>
<td>IT Management (CSIS 1590)</td>
<td>3</td>
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<tr>
<td>INFOT</td>
<td>3704</td>
<td>Business Communication (Engl 1550)</td>
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<tr>
<td>INFOT</td>
<td>3774</td>
<td>Multimedia Technology (CSIS 1590)</td>
<td>3</td>
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<tr>
<td>INFOT</td>
<td>4880</td>
<td>Information Technology Analysis &amp; Design (CSIS 3722; CSIS 3723 or 3782)</td>
<td>3</td>
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### Required Electives (15sh)

At least 15 sh of upper division IT, CSIS, CIS or CSCI courses.

(In addition to the above courses.)

### Minor Courses

Minors are listed in the Undergraduate Bulletin—minimum of 18sh (6 sh must be upper division) unless otherwise stated by the Department

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### Electives (needed to meet the minimum of 124 sh total)

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### Remedial Course Work

(Will not be counted toward graduation hours)

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### Notes:

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.