Catalog Description

The **Computer and Information Technology degree** is designed to provide students with a comprehensive understanding of key technical areas including computers, networking, servers, and security. This program prepares students for transfer, employment, and industry certification exams (CompTIA A+, CompTIA Security+, CISCO CCNA, CISCO CCNA Security, and Microsoft MCSA).

Program Requirements ...........................................38

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cit 1100</td>
<td>IT Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>Cit 1111*</td>
<td>Computer and Hardware Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>Cit 1112*</td>
<td>Computer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>Cit 1121</td>
<td>Introduction to Networks</td>
<td>3</td>
</tr>
<tr>
<td>Cit 1122*</td>
<td>Routing and Switching Essentials</td>
<td>3</td>
</tr>
<tr>
<td>Cit 1123*</td>
<td>Scaling Networks</td>
<td>3</td>
</tr>
<tr>
<td>Cit 1124*</td>
<td>Connecting Networks</td>
<td>3</td>
</tr>
<tr>
<td>Cit 1612</td>
<td>Configuring Windows PC Desktop Operating System</td>
<td>3</td>
</tr>
<tr>
<td>Cit 1613*</td>
<td>Enterprise PC Support Technician</td>
<td>3</td>
</tr>
<tr>
<td>Cit 1640*</td>
<td>Network Security Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cit 2251*</td>
<td>Enterprise Network Security</td>
<td>3</td>
</tr>
<tr>
<td>Cit 1645*</td>
<td>Internet Telephony</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
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<tr>
<td>Cit 2410*</td>
<td>Enterprise Internet Telephony</td>
<td>3</td>
</tr>
<tr>
<td>Cit 1710*</td>
<td>Introduction to Servers</td>
<td>3</td>
</tr>
<tr>
<td>Cit 2710*</td>
<td>Computer Information Technology Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

* - course has a prerequisite

Program Electives..............................................8

Select eight credits from any 1000- or 2000-level CIT course. (In addition to the courses listed above.)

General Education .............................................18

Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education. (In addition to the courses listed below.)

Under the specified General Education headings below, the following courses are required:

**Communication:** 6 credits

**Written:** (3 credits) English 1101 or 1105

**Oral:** (3 credits) Speech 1100, 1120 or 1150

**Physical and Life Sciences:** 3 to 5 credits

At least one course with a laboratory component.

**Mathematics:** 3 to 5 credits

Select a minimum of 3 credits (1000 level or above).

Suggested Course Sequence (Full Time Enrollment)

Please note: A student’s readiness to perform college-level coursework is based on the student’s placement test and/or ACT scores. Below 1000 level coursework may be required prior to the student taking courses in the suggested sequences.

**First Semester (16 credits)**

- Cit 1100 (2)
- Cit 1111 (3)
- Cit 1121 (3)
- Cit 1122 (3)
- MATH 1431(5)

**Second Semester (18 to 20 credits)**

- Cit 1112 (3)
- Cit 1123 (3)
- Cit 1124 (3)
- General Education (3 to 5)
- ENGLI 1101 or 1105 (3)
- General Education (3)

**Third Semester (15 to 17 credits)**

- Cit 1612 (3)
- Cit 1613 (3)
- Cit 1710 (3)
- Program Elective (3 to 5)
- General Education (3 to 5)

**Fourth Semester (15 to 17 credits)**

- Cit 1640 or Cit 2251 (3)
- Cit 1645 or Cit 2410 (3)
- Cit 2710 (3)
- Program Elective (3 to 5)
- General Education (3 to 5)

For more information:

If you are considering this program as an area of study, please contact the Business and Applied Technology Division office at 630-942-2592.

Program web site:

http://www.cod.edu/programs/cit/
Select Mathematics 1102, 1104 or 1120 only where required in the degree program. Only one from the following three courses may count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or Mathematics 1431.

**Humanities and Fine Arts:** 3 credits

**Social and Behavioral Sciences:** 3 credits

Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills Category. *(CIT 1100 or CIT 1121 in program requirements fulfills this requirement)*

<table>
<thead>
<tr>
<th>TOTAL CREDITS FOR AAS DEGREE</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
</tr>
</tbody>
</table>
Career Information CIT.AAS.CIT

Job Title(s): Computer Network Architects

For salary and wage information, please visit: www.onetonline.org

If you would like information regarding internships, resume development, interviewing and job search skills, please contact the Career Services Center
Phone: 630-942-2230
www.cod.edu/careerservices Twitter: @codcareercenter

Related Occupations:
Computer Systems Analysts Software Developers, Applications
Information Security Analysts Database Administrators
Computer and Information Systems Network and Computer Systems Administrators Managers
Catalog Description

The Cybersecurity and Defense degree provides a foundation in the principles of cybersecurity. Content covers function of networks, hardware, and operating systems. This program prepares students for employment in entry level positions in information systems.

Program Requirements ..................................................39
Cit 1121 Introduction to Networks.................................3
Cit 1122* Routing and Switching Essentials .................3
Cit 1123* Scaling Networks ........................................3
Cit 1124* Connecting Networks ................................3
Cit 1640* Network Security Fundamentals ................3
Cit 1710 Introduction to Servers ................................3
Cit 2173* Virtualization: Install, Configure, Manage ......3
Cit 2251* Enterprise Network Security .......................3
Cit 2510* Advanced Server Administration ..................3
Cit 2511* Advanced Server Configuration ....................3
Cit 2640* Ethical Hacking .........................................3
Cis 1450* Introduction to Linux/Unix Operating Systems ....3
Crimj 1165 Computers and Criminal Justice ...............3

Program Electives ..........................................................7
Select seven credits from any 2000-level CIT courses. (In addition to the courses listed above.)

* - course has a prerequisite

General Education .........................................................18
Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education. (In addition to the courses listed below.)

Under the specified General Education headings below, the following courses are required:

Communication: 6 credits
Written: (3 credits) English 1101 or 1105
Oral: (3 credits) Speech 1100, 1120 or 1150

Physical and Life Sciences: 3 to 5 credits
At least one course with a laboratory component.

Mathematics: 3 to 5 credits
Select a minimum of 3 credits (1000 level or above).

Suggested Course Sequence (Full Time Enrollment)

Please note: A student's readiness to perform college-level coursework is based on the student's placement test and/or ACT scores. Below 1000 level coursework may be required prior to the student taking courses in the suggested sequences.

First Semester (17 credits)
- Cit 1121 (3)
- Cit 1122 (3)
- Cit 1710 (3)
- Cit 2510 (3)
- Math 1431 (5)

Second Semester (18 credits)
- Cit 1123 (3)
- Cit 1124 (3)
- Cit 2511 (3)
- Engli 1101 or 1105 (3)
- General Education (3)
- General Education (3)

Third Semester (15 to 17 credits)
- Cit 2251 (3)
- Cit 1640 (3)
- Cis 1450 (3)
- General Education (3 to 5)
- Program Elective (3)

Fourth Semester (16 credits)
- Cit 2173 (3)
- Cit 2640 (3)
- Crimj 1165 (3)
- Program Elective (4)
- General Education (3)

For more information:
If you are considering this program as an area of study, please contact the Business and Applied Technology Division office at 630-942-2592.

Program web site:
http://www.cod.edu/programs/cit/
Select Mathematics 1102, 1104 or 1120 only where required in the degree program. Only one from the following three courses may count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or Mathematics 1431.

**Humanities and Fine Arts:** 3 credits

**Social and Behavioral Sciences:** 3 credits

Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills Category (*CIT 1121 in program requirements fulfills this requirement.*)

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Career Information CIT.AAS.CYBER

**Job Title(s):** Information Security Analysts


For salary and wage information, please visit: [www.onetonline.org](http://www.onetonline.org)

If you would like information regarding internships, resume development, interviewing and job search skills, please contact the Career Services Center

Phone: 630-942-2230

[www.cod.edu/careerservices](http://www.cod.edu/careerservices) Twitter: @codcareercenter

**Related Occupations:**

- Logistics Analysts
- Computer and Information Systems Managers
- Computer Systems Analysts
- Database Administrators
- Software Quality Assurance Engineers and Testers
- Network and Computer Systems Administrators