INFORMATION TECHNOLOGY, B.S.

The Information Technology (INTE) major at Millersville University helps students to gain comprehensive knowledge in this field with practical hands-on skills crucial to support organizational Information Technology infrastructure and users. Information Technology is the application of technology to solve organizational problems and increase business operation efficiency. Information Technology incorporates the selection, creation, application, communication technologies, integration, and administration of computing devices to meet the organizational needs, individual user demands, and society at large. This program addresses the importance of applied skills and practical experiences in Information Technology by allowing students to gain hands on experiences with fundamental Information Technology topics and get prepared for emerging careers in Information Technology.

Major in Information Technology, BS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTE 120</td>
<td>Integrated Information Technology Application Projects</td>
<td>4</td>
</tr>
<tr>
<td>INTE 130</td>
<td>Fundamentals of Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>INTE 230</td>
<td>Network Concepts, Security and Administration</td>
<td>4</td>
</tr>
<tr>
<td>INTE 240</td>
<td>The Fundamentals of Web Technology</td>
<td>4</td>
</tr>
<tr>
<td>INTE 360</td>
<td>IT Risk Management and Security</td>
<td>4</td>
</tr>
<tr>
<td>INTE 410</td>
<td>IT Project Management</td>
<td>4</td>
</tr>
<tr>
<td>INTE 420</td>
<td>Fundamentals of Operating Systems Management</td>
<td>4</td>
</tr>
<tr>
<td>INTE 440</td>
<td>Human-Computer Interaction</td>
<td>4</td>
</tr>
</tbody>
</table>

REQUIREMENTS FOR INFORMATION TECHNOLOGY, GENERAL

INTE/CSCI Electives can include up to FOUR total credits from INTE 498, 300/400 and 489/499

Interdisciplinary Course Requirements - Choose 6 hours from:

- COMM 225 Nonprofit Sector Communication
- COMM 317 Intercultural Communication
- COMM 371 Crisis Emergency & Risk Comm
- COMM 380 Digital Media Writing
- COMM 390 Social Media Campaigns
- DESN 201 Understanding Web Design
- DESN 247 Intro to Web, Experience and Interaction Design
- PHIL 281 Bus. & Prof. Ethics
- ECON 101 Principles of Macroeconomics
- BUAD 251 Principles of Management

INTE CSCI Elective Courses - Choose 3 of the following:

- INTE 255 Intro to Data Analytics
- INTE 350 Cybersecurity
- INTE 300 Co-Op/Internship in INTE
- INTE 400 Co-Op/Internship INTE
- INTE 425 Data Explor and Visualization
- INTE 435 IT Security, Privacy & Ethics
- INTE 489 Honors Course
- INTE 498 Independent Study
- INTE 499 Departmental Honors
- CSCI 362 Data Structures

CSCI 370 Computer Architecture
CSCI 380 Operating Systems
CSCI 395 Computer Networks
CSCI 415 Computer and Network Security
MATH 255 Intro to Data Analytics

Total Hours 47-66

Req Related for Information Technology, BS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 161</td>
<td>Introduction to Programming 1 (G2)</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 162</td>
<td>Introduction to Programming 2</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 366</td>
<td>Database Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

MATHEMATICS

Statistics (G2) - Choose 1 of the following: 3-4

- MATH 130 Elements of Statistics 1
- MATH 234 Statistics for Health Sciences
- MATH 235 Survey of Statistics
- MATH 120 Logic for Information Technology 2

ECONOMICS

- ECON 102 Principles of Microeconomics (G3) 3

RECOMMENDED COURSES (NOT REQUIRED)

These courses are recommended, but not required. They are advised as complimentary courses which can fulfill the General Education requirements noted

- COMM 335 Communications and Emerging Technologies (G1, W) 0
- MATH 151 Calculus for Management, Life and Social Sciences 0

Total Hours 20-21