NETWORKING SYSTEMS AND TECHNOLOGY, BASIC CERTIFICATE

College(s): DA, KK, OH, TR, WR
Program Code: 0143
Networking Systems and Technology, Basic Certificate

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Program Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 101</td>
<td>Computer Science 101</td>
<td>3</td>
</tr>
<tr>
<td>CIS 111</td>
<td>Computer Operations</td>
<td>3</td>
</tr>
<tr>
<td>CIS 116</td>
<td>Operating System I</td>
<td>3</td>
</tr>
<tr>
<td>CIS 255</td>
<td>Operating Systems II</td>
<td>3</td>
</tr>
<tr>
<td>NET TEC 121</td>
<td>Internetworking I</td>
<td>3</td>
</tr>
<tr>
<td>NET TEC 122</td>
<td>Internetworking II</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

Pathway

This is an example course sequence for students interested in earning a degree in Networking Systems and Technology. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) in Networking Systems and Technology. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course                          | Title                          | Hours |
Semester 1                      |                                |       |
| CIS 101                        | Computer Science 101           | 3     |
| CIS 116                        | Operating System I             | 3     |
| CIS 111                        | Computer Operations            | 3     |
| NET TEC 121                    | Internetworking I              | 3     |
| Hours                          |                                | 12    |
Semester 2                      |                                |       |
| CIS 255                        | Operating Systems II           | 3     |
| NET TEC 122                    | Internetworking II             | 3     |
| Hours                          |                                | 6     |
| Total Hours                    |                                | 18    |

Choose your courses with your College Advisor.

Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (https://www.ccc.edu/departments/Pages/Career-Services.aspx).

Computer User Support Specialists

Job Description

Provide technical assistance to computer users. Answer questions or resolve computer problems for clients in person, via telephone, or electronically. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems.
Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County.

Emsi earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages
Entry-Level 10th Percentile $31,983
Median 50th Percentile $53,406
Senior-Level 90th Percentile $90,503

Hourly Wages
Entry-Level 10th Percentile $15
Median 50th Percentile $26
Senior-Level 90th Percentile $44

Annual Job Openings
751 annual openings in Cook County

National Education Attainment
Here, you can see the level of education that people in this career complete.

Degree Program % of Jobs
A high school diploma or less 22.04%
A certificate 11.76%
Some college 18.84%
An Associate degree 14.15%
A Bachelor's degree 14.15%
A Master's or Professional degree 0.00%
A Doctoral degree or more 0.00%

33.20% continue their education beyond an associate degree.

Computer Network Support Specialists

Job Description
Analyze, test, troubleshoot, and evaluate existing network systems, such as local area networks (LAN), wide area networks (WAN), cloud networks, servers, and other data communications networks. Perform network maintenance to ensure networks operate correctly with minimal interruption.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County.

Emsi earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages
Entry-Level 10th Percentile $59,056
Median 50th Percentile $91,602
Senior-Level 90th Percentile $136,719
Hourly Wages
Entry-Level 10th Percentile $28
Median 50th Percentile $44
Senior-Level 90th Percentile $66

National Education Attainment
Here, you can see the level of education that people in this career complete.

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>% of Jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A high school diploma or less</td>
<td>0.00%</td>
</tr>
<tr>
<td>A certificate</td>
<td>7.49%</td>
</tr>
<tr>
<td>Some college</td>
<td>9.72%</td>
</tr>
<tr>
<td>An Associate degree</td>
<td>20.30%</td>
</tr>
<tr>
<td>A Bachelor's degree</td>
<td>52.37%</td>
</tr>
<tr>
<td>A Master's or Professional degree</td>
<td>10.13%</td>
</tr>
<tr>
<td>A Doctoral degree or more</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

62.50% continue their education beyond an associate degree

Information Security Analysts
Job Description
Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information. Assess system vulnerabilities for security risks and propose and implement risk mitigation strategies. May ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure. May respond to computer security breaches and viruses.

Salary Based on Experience Level
Take a look at the average hourly/annual earnings for this career in Cook County

Emsi earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages
Entry-Level 10th Percentile $64,631
Median 50th Percentile $115,224
Senior-Level 90th Percentile $164,819

Hourly Wages
Entry-Level 10th Percentile $31
Median 50th Percentile $55
Senior-Level 90th Percentile $79

Annual Job Openings
164 annual openings in Cook County