

# INFORMATION TECHNOLOGY/CISCO NETWORKING PATHWAY EXAMPLES

CISCO NETWORKING & CYBER SECURITY	ADVANCED STUDIES COMPUTER SCIENCE	WEB DEVELOPMENT	VIDEO GAME/ANIMATION DEVELOPMENT
AP Computer Science Principles AP Computer Science CISCO Networking Academy - CCNA Advanced CISCO - CCNP Advanced CISCO - Cybersecurity	Coding in Python 1 Coding in Python 2 Introduction to Computer Science AP Computer Science Principles AP Computer Science Special Topics in Computer Science	Coding in Python 1 Coding in Python 2 Photography 1 and 2 Web Publishing Introduction to Computer Science AP Computer Science Principles AP Computer Science	Coding in Python 1 & 2 Introduction to Computer Science Photography Video Game and Simulation Design Mobile Game Development DigiPen Video Game Programming DigiPen Animation DigiPen Music & Sound Design

**Sample CISCO Networking & Cyber Security 4-Year Plan**  
(Middle School courses that support this 4-year plan are indicated in the chart below.)

PERIOD	1	2	3	4	5	6	7	8	SAMPLE PATHWAY COLLEGE CREDIT
GRADE	LANGUAGE ARTS	SOCIAL STUDIES	SCIENCE	MATH	ELECTIVE	ELECTIVE	ELECTIVE		
6	x	x	x	x	Physical Education				<b>Bellevue College = 35 credits</b> Cisco Networking Academy = NSCOM 201,202,203,204 = 20 credits Coding in Python 1 & 2 (HS Only) -- PROG 110 = 5 credits AP Computer Science Principles – PROG 110 = 5 credits AP Computer Science -- CS 210 = 5 credits <b>Edmonds College = 26 credits</b> Cisco Networking Academy – CIS 171, 172, 173, 174 = 20 credits Advanced Cisco Cybersecurity – CIS 268= 5 credits See the College Credit table for more information and available credits.
7	x	x	x	x	Physical Education	Health	<b>CS Discoveries</b>		
8	x	x	x	x	Physical Education	<b>Coding in Python 1</b>	<b>Coding in Python 2</b>		
9	x	x	x	x	World Language	Fine Arts	<b>AP Computer Science Principles</b>		
10	x	x	x	x	Physical Education	Health	<b>AP Computer Science</b>		
11	x	x	x	x	Physical Education	<b>Cisco Networking Academy - CCNA</b>			
12	x	x		x	<b>Advanced Cisco Cybersecurity</b>	<b>Advanced CISCO CCNP &amp; Advanced Cisco Cybersecurity</b>			

	INFORMATION TECHNOLOGY COLLEGE CREDIT COURSES	PROFESSIONAL CERTIFICATIONS	TECHNICAL OR ASSOCIATE DEGREES	SAMPLE OCCUPATIONS
POST SECONDARY	<b>Bellevue College</b> Cisco Networking Academy -- NSCOM 201, 202, 203, 204 = 20 credits Coding in Python 1 & 2 (HS Only) -- PROG 110 = 5 credits AP Computer Science Principles – PROG 110 = 5 credits AP Computer Science -- CS 210 = 5 credits Computer Technology – IT 101 = 5 credits Video Game & Simulation Design – DMA 106 = 5 credits Web Publishing – DMA 107 = 5 credits <b>Edmonds College</b> Cisco Networking Academy -- CIS171, 172, 173, 174 = 20 cr. Advanced Cisco Cybersecurity – CIS 268= 5 credits AP Computer Science – CIS 199 = 5 credits AP Computer Science Principles – CIS 125 = 5 credits Coding in Python 1 & 2 (HS Only) – CIS 100 = 5 credits Computer Technology – CIS 100 = 5 credits <b>LWIT</b> Web Publishing – CSD 112 = 5 credits Computer Technology – BTE 120 = 5 credits	<b>Cisco Certified Network Associate</b> CCNA Exam  <b>Cisco Certified Cloud Security Professional</b> CCNP Exam (3 exams)  <b>Cisco Certified Network Professionals</b> CCSP Exam  <b>NSA CNSS 4011 National Security Agency Certification</b>  <b>MTA Microsoft Technical Associate</b>	<b>Bellevue College:</b> • Bachelor of Applied Science Degree in Information Systems and Technology: <ul style="list-style-type: none"> <li>○ Application Development</li> <li>○ Business Intelligence</li> <li>○ Systems Administration</li> <li>○ Information Security</li> </ul> <b>Lake Washington Institute of Technology</b> <ul style="list-style-type: none"> <li>• Computer Security &amp; Network Technician</li> <li>• Associate in Technology, DTA/MRP</li> <li>• Information Technology Applications Development, AAS-T</li> </ul> <b>Certificate of Prof. or Completion</b> <ul style="list-style-type: none"> <li>• C++ Software Design Engineer</li> <li>• C++/C# Programmer</li> </ul>	Software Developer Programmers Architects Software Engineers Systems Analysts Systems Engineers Cybersecurity Systems Programmers Systems Administrator Network Administrator Network Engineer Storage – SAN Administrators Technical Consultants Network Director <i>Plus many more.....</i>