

Mark Monnin

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Education:

M.S., Computer Science, University of Illinois Urbana, Illinois, 1995

B.S., Computer Science, Rose-Hulman Institute of Technology, Terre Haute, Indiana, 1988

Academic Appointments:

2019-present	Department Chair, Department of Technology, University of Southern Maine, Gorham, Maine
2021	Part-time Lecturer, University of Augusta, Augusta, Maine
2016-present	Lecturer, Department of Technology, University of Southern Maine, Gorham, Maine
2016-2016	Part-time Instructor, Information Security & Cybersecurity, University of Maine Fort Kent, Fort Kent, Maine
2015-2016	Chair, Computer Science and Information Technology Department, York County Community College, Wells, Maine
2015-2016	Assistant Professor, Computer Science and Information Technology, York County Community College, Wells, Maine
2009-2015	Chair, Computer Technology Department, York County Community College, Wells, Maine
2008-2015	Assistant Professor, Computer Technology, York County Community College, Wells, Maine
1996-2001	Adjunct Instructor, Mathematics and Computer Science, Parkland Community College, Champaign, Illinois

Industry Appointments:

1999-2007	Manager of Technology / Senior Research Programmer, Campus Information Technology and Educational Services, University of Illinois, Urbana, Illinois
1997-1999	Manager of CAN/LAN / Research Programmer, Computing and Communications Service Office, University of Illinois, Urbana, Illinois
1997-1999	Campus Backbone Administrator / Research Programmer, Computing and Communications Service Office, University of Illinois, Urbana, Illinois
1993-1995	Network Administrator Support / Graduate Research Assistant, Computing and Communications Service Office, University of Illinois, Urbana, Illinois
1988-1993	Assistant Director of Academic Computing, WCC, Rose-Hulman Institute of Technology, Terre Haute, Indiana

Professional Memberships:

Association of Computing Machinery, Life Member

Industry Certifications:

Active Certifications:

- CompTIA A+ (since 2010)
- CompTIA Network+ (since 2010)
- CompTIA Security+ (since 2010)
- Cisco CCNA (since 2007)
- Cisco CCNP Enterprise (since 2016)
- Cisco Certified Specialist - Enterprise Advanced Infrastructure Implementation (since 2016)
- Cisco Certified Specialist - Enterprise Core (since 2016)

Retired Certifications:

- Cisco CCNA Routing and Switching (retired certification)
- Cisco CCNA Security (retired certification)
- Cisco CCNP Routing and Switching (retired certification)

Grant Activity:

- Co-PI *Maine Virtual Cybersecurity Collaborative Learning Laboratory*,
National Science Foundation, No. 1438826, 2014
- Co-Pi *Engaging Maine Community Colleges in the Maine Space Grant
Community*, National Aeronautics and Space Administration,
No. 14-NSGCFP-0017, 2014

Presentations:

- Faculty Speaker York County Community College Commencement
Wells, Maine; 2015
- Presenter *Virtual Portfolios*
Polytechnic Summit
Boston, Massachusetts; 2014
- Presenter *Communications Connectivity: Using Netware for VMS*
COMDEX Expo
Chicago, Illinois; 1992
- Keynote Speaker *The Next-Generation of Cyber Security Professionals*
Telephone Association of New England (TANE) Technical Conference
Portland, Maine, 2019

Campus, Community, and Industry Service:

University of Southern Maine, Gorham, Maine:

MCSC Executive Advisory Board, 2 years

Faculty Senate, Member, 2 years

Information Technology Advisory Committee, 2 years

Sanford Regional Technical Center, Sanford Maine:

IT Program Advisory Board, 6 years

Southern Maine Community College, South Portland, Maine:

CS & IT Advisory Board, 3 years

York County Community College, Wells, Maine:

Assessment Committee, Member, 2 years

Faculty Senate, Member, 7 years

Faculty Senate, Convener 2 Years

College Council, 4 years

College Council, Vice Chair, 1 year

College Council, Chair, 1 year

President Search Committee

NEASC Self-Study 2009, Physical and Technology Committee Co-Chair

CS Advisory Board, 3 years

Association of Computing Machinery

Reviewer, *Information Technology Competency Model of Core Learning*

Outcomes and Assessment for Associate-Degree Curriculum, 2014

Course Development:

University of Southern Maine, Gorham, Maine:

ITT 363	Server Administration and Maintenance	Created initial outline
ITT 453	Topics in Information Technology and Security	Created initial outline
CYB 530	Project Management in Cyber Security	Created initial outline
CYB 576	Network Security Management	Created initial outline
CYB 583	Database and Application Security	Created initial outline

York County Community College, Wells, Maine:

CIS 115	Software Applications	Updated course outline
CIS 118	Introduction to Computer Technology Information Technology Fundamentals	Created initial version; (part of team) updated for degree change
CIS 125	Desktop and Mobile Computing Support	Created initial outline
CIS 131	Visual Programming I	Updated course outline
CIS 132	Visual Programming II	Updated course outline
CIS 133	Introduction to Programming	(Part of team) created initial outline
CIS 141	Object Oriented Programming I	Created initial outline
CIS 170	Problem Solving and Programming	(Part of team) created initial outline
CIS 174	Algorithms in Programming	(Part of team) created initial outline
CIS 220	Information Security	Created initial outline
CIS 226	Ethical Hacking	Created initial outline
CIS 228	Computer Forensics	Created initial outline
CIS 230	Desktop and Server Administration I	Created initial outline
CIS 235	Open Source Server Administration	(Part of team) created initial outline
CIS 254	Computer Organization	Created initial outline
CIS 255	Operating Systems	Updated course outline
CIS 272	Data Structures	(Part of team) created initial outline
CIS 285	Network Design and Management	Updated course outline
CIS 217	Database Management	Updated course outline
NET 110	Network Fundamentals	(Part of team) updated course outline
NET 221	Network Security	(Part of team) created initial outline
WEB 131	Web Development I	(Part of team) created initial outline
WEB 133	Web Development II	(Part of team) created initial outline
WEB 215	Web Systems and Programming	(Part of team) created initial outline

Curriculum Developed:

University of Southern Maine:

Minor in Cyber Security	(Part of team) created minor (<i>in progress</i>)
Graduate Certificate in Cybersecurity	(Part of team) created initial version
MS in Cybersecurity	(Part of team) created initial version
BS in Cybersecurity	Updated requirements
BS in Information Technology	Updated requirements

York County Community College, Wells, Maine:

AAS in Computer Technology	Enhanced, from “use” to “administer”
AAS in Information Technology	Converted existing CT to IT degree
AS in Computer Science	(Part of team) created initial degree
Certificate in Help Desk and User Support	Created initial (1 year) certificate
Certificate in Networked Systems Technology	(Part of team) created initial (1 year) certificate
Certificate in Web Development	(Part of team) created initial (1 year) certificate
Advanced Certificate in Information Security	(Part of team) created initial (1 year) certificate

Courses Taught:

University of Southern Maine:

COS 200	Introduction to Cyber Security
& ITT 200	
ITT 270	Introduction to Computer Hardware
ITT 272	Networking I
ITT 362	Operating Systems Security
ITT 363	Server Administration and Maintenance
ITT 373	Networking II
ITT 376	Network Defense
ITT 383	Databases
ITT 385	Integrative Programming
ITT 486	User Experience
ITT 487	Operations Senior Seminar
ITT 490	Directed Study

University of Maine at Fort Kent, Fort Kent, Maine:

COS 206	Introduction to Information Security
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Parkland Community College, Champaign, Illinois:

CSC 130	Introduction to Networking
CSC 213	Unix Systems Administration
CSC 220	Data Structures

York County Community College, Wells, Maine:

CIS 115	Software Applications
CIS 118	Introduction to Computer Technology / Information Technology Fundamentals
CIS 125	Desktop and Mobile Computer Support
CIS 131	Visual Programming I

CIS 132	Visual Programming II
CIS 133	Introduction to Programming
CIS 141	Object Oriented Programming I
CIS 152	Computer Hardware
CIS 220	Information Security
CIS 230	Desktop and Server Administration I
CIS 255	Operating Systems
CIS 285	Network Design and Management
NET 110	Networking Essentials I / Network Fundamentals
WEB 211	Web Site Programming

Technical Experience:

LAN	Design and troubleshooting with Ethernet (10Mbps, 100Mbps, 1Gbps, 10Gbps), ATM (OC-3, OC-12), and FDDI. Wireless networks (802.11a/b/g/n/ac). VLAN technologies including 802.1q. Extensive experience with routers (including Cisco IOS), switches (both L2 and L3), firewalls, load balancers (including F5), NAT translation devices, and communication and access servers.
WAN	Design and troubleshooting experience with T1, private xDSL circuits, ISDN (BRI & PRI), PPP, and Frame Relay. Exposure to cable modem network design.
Network Protocols	Familiar with various networking protocols including TCP/IPv4 and TCP/IPv6, SNMP & RMON, DNS, BOOTP & DHCP, HSRP & VRRP, RIP, EIGRP, IGRP, OSPF, LAGP, and VoIP (SIP, RTP), TACACS & RADIUS. Exposure to BGP. Also experience with the following non-IP protocols AppleTalk (Apple), DECnet (Dec), IPX/SPX (Novell), LAT (Dec).
Computer Languages	Perl, C, C++, Visual C++, Visual Basic, Java, Python, Unix shell (csh & sh varieties), various assembly languages, Awk, and many others.
Network Equipment	Cisco (various routers/switches), Arista (switches), Ubiquiti (routers, switches, APs)
Operating Systems	Windows (various). Windows Server (2008, 2008 R2), Linux (Ubuntu, SUSE, RedHat, Fedora), Unix (Solaris, HP, AIX), Novell (NetWare), VMS
Virtualization	VMWare ESXi 5.x-7.0, vCenter 5.x-7.0, VirtualBox, Linux Containers (LXC), Docker