

Growing *opportunity* for *technology-based careers*

Network and Communications Management

Professional profile for cutting-edge careers

In today's business world, networks form the backbone of companies' operations, making professionals who direct efforts to build, maintain and upgrade these systems critical to their employers' ability to thrive. And as technology becomes more sophisticated, network and communications management experts should enjoy increasing demand for their specialized skills and knowledge. In fact, overall employment of computer network, systems, and database administrators is projected to increase by 30 percent from 2008 to 2018, much faster than the average for all occupations. In addition, this occupation will add 286,600 new jobs over that period.¹ Growth, however, will vary by specialty.

At DeVry University's Keller Graduate School of Management, you can take advantage of numerous master's degree programs and graduate certificate options to position yourself to become an effective leader in the dynamic network and communications management arena. Your Keller education can help you gain the advanced technical and managerial expertise needed to direct challenging projects such as creating global networks that carry data, voice, email and video throughout a worldwide organization; and networking offices within a single or multiple facilities.

Overview of roles and responsibilities

Network and data communications professionals tap into current network and telecommunications technology and best practices as they direct teams to:

- Develop organizations' network strategies.
- Approve network designs.
- Build and maintain networks, as well as implement upgrades by deploying new technologies.
- Direct activities surrounding wireless networking, VoIP implementation and network security – including recommending security hardware and software.
- Ensure that various computer networks are designed for efficient operation.
- Estimate budgets.

Career options for your success

Choose from several Keller master's degree programs and graduate certificate options focused squarely on technology management.

MNCM

Keller's Master of Network & Communications Management degree program is an option for those interested in the powerful combination of technical and management expertise. Tailor your program with a choice of six concentrations.

MISM

The Master of Information Systems Management (Master of Science in Information Systems Management in New York) degree program accommodates students with or without a technology background. Customize your degree program with one of 10 concentrations matched to your career goals.

MBA

If you want to earn a credential built on advanced high-tech skills as well as management expertise, choose Keller's Master of Business Administration (Master of Business Administration in Management in New York) degree program with a concentration in Network and Communications Management, Information Security, Information Systems Management or Security Management.

Graduate Certificate

Earn a graduate certificate in Information Security, Network & Communications Management, Information Systems Management or Wireless Communications while on your way to a master's degree or as a stand-alone credential.

¹ Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2010–11 Edition, Computer Network, Systems, and Database Administrators, on the Internet at www.bls.gov/oco/ocos305.htm (visited May 27, 2011).

Keller...partnering with you for career success



The credibility you expect

- DeVry University is accredited by The Higher Learning Commission of the North Central Association, www.ncahlc.org. Keller Graduate School of Management is included in this accreditation.
- Learn from successful real-world business leaders.
- Become familiar with management skills employers demand.
- Benefit from nationally respected programs that address market trends.

The flexibility you need

- Select coursework to fit your specific career goals.
- Balance work, life and school with Keller's flexible schedules.
- Take classes on campus, online or both and get the same attention, curriculum and quality.

Grow the business of you at Keller

To take your career to the next level and make yourself the technology management professional critical to an organization's success, it's essential to gain vital skills and knowledge. Keller can help you get there. Our instructors are industry experts, and are up-to-date on the latest technologies and trends. This practitioner-based approach helps ensure that your education is directly applicable to your career – and to the real-world needs of today's leading employers.

For 80 years, DeVry University has led the way in technology-focused education – and Keller's programs draw on that rich heritage. If you want to truly distinguish your technology credentials from those of your peers, a credential from DeVry University's Keller Graduate School of Management provides you with advantages that can make the difference.

You've already made one good decision by choosing to pursue an advanced education. Now make another by choosing Keller. Read on to learn more about Keller's network and communications management options and how they can help grow the business of you.

Keller's management core

All Keller master's degree programs provide the benefit of a core set of management courses focused on general skills critical to your success in the business world – skills needed to achieve new career heights. Core courses address:

- Key concepts of accounting and finance.
- Application of technology and innovations as strategic tools.
- Managing change to improve effectiveness.

As you progress, you can focus your education on the technology area best suited to your career goals.



Keller's Network and Communications Management options

Master of Network & Communications Management

The MNCM program provides in-depth managerial expertise in areas such as network and telecommunications design and operation, telecommunications regulations, cost analysis and more. Focused study in a concentration matched to the course of your career rounds out the curriculum.

MNCM Program Core Courses – all four required

- Accounting and Finance: Managerial Use and Analysis, FI504
- Managing Organizational Change, HR587
- Project Management Systems, PM586
- Strategic Management of Technology, TM583

MNCM Technology Core Courses – all seven required

- Networking Concepts and Applications, IS589
- Network Security, SE572
- Telecommunications Law and Regulation, TM584
- Network Design and Management, TM585
- Wireless Communication Systems, TM589
- IP Telephony/VoIP, TM590
- Telecommunications Capstone, TM600

MNCM Concentrations – choose one of six

Wireless – all four required

- Wireless Technologies, TM561
- Wireless Devices and Applications, TM562
- Wireless Networks, TM563
- Management of Wireless Systems, TM564

Network Applications – all four required

- Disaster Recovery/Forensics and Security, SE591
- IT Governance, SE592
- Wireless Devices and Applications, TM562
- Wireless Networks, TM563

Information Security – any four required

- Principles of Information Security and Privacy, SE571
- E-Business Security, SE573
- Database Security, SE574
- Information Security Law and Ethics, SE575
- Risk Mitigation and Contingency Planning, SE576
- Cryptography and Security Mechanisms, SE577
- Practices for Administration of Physical and Operations Security, SE578
- Security in Systems Architecture and Applications, SE579
- Disaster Recovery/Forensics and Security, SE591
- IT Governance, SE592

Technology Applications – any four required

- Managerial Applications of Information Technology, IS535
- Systems Analysis, Planning and Control, IS581
- Database Concepts, IS582
- Database Applications for Electronic Commerce, IS583
- Decision Support and Expert Systems, IS585

Project Management – any four required

- Managing Quality, GM588
- Managing Software Development Projects, PM584
- Advanced Program Management, PM587
- Project Cost and Schedule Control, PM592
- Project Risk Management, PM595
- Contract and Procurement Management, PM598
- Advanced Project Management Practices and Professional Exam Preparation, PM605

Electronic Commerce – any four required

- Electronic Commerce Technology Management, EC542
- Internet-Oriented Programming, IS577
- Database Concepts, IS582
- Database Applications for Electronic Commerce, IS583
- E-Business Security, SE573
- IT Governance, SE592

Master of Information Systems Management

Keller's MISM program provides concepts and tools for systems development, implementation, management and security, as well as examines database concepts, components and management issues. With numerous concentrations available, you can customize your degree program to the specific career path you want to pursue.

MISM Program Core Courses – all six required

- Accounting and Finance: Managerial Use and Analysis, FI504
- Leadership and Organizational Behavior, GM591
- Managing Organizational Change, HR587
- Managerial Applications of Information Technology, IS535
- Project Management Systems, PM586
- Strategic Management of Technology, TM583

MISM Technology Core Courses – all five required

- Systems Analysis, Planning and Control, IS581
- Database Concepts, IS582
- Networking Concepts and Applications, IS589
- Information Systems Capstone, IS600
- Principles of Information Security and Privacy, SE571

MISM Concentrations – choose one of 10

Wireless – any four required

- Wireless Technologies, TM561
- Wireless Devices and Applications, TM562
- Wireless Networks, TM563
- Management of Wireless Systems, TM564
- Wireless Communication Systems, TM589

Network Management – any four required

- Network Security, SE572
- Disaster Recovery/Forensics and Security, SE591
- IT Governance, SE592
- Wireless Networks, TM563
- Network Design and Management, TM585
- IP Telephony/VoIP, TM590

Information Security – any four required

- Network Security, SE572
- E-Business Security, SE573
- Database Security, SE574
- Information Security Law and Ethics, SE575
- Risk Mitigation and Contingency Planning, SE576
- Cryptography and Security Mechanisms, SE577
- Practices for Administration of Physical and Operations Security, SE578
- Security in Systems Architecture and Applications, SE579
- Disaster Recovery/Forensics and Security, SE591
- IT Governance, SE592

Information Systems Applications – any four required

- Database Applications for Electronic Commerce, IS583
- Decision Support and Expert Systems, IS585
- Wireless Devices and Applications, TM562
- Wireless Communication Systems, TM589
- IP Telephony/VoIP, TM590

Data Administration and Management – all four required

- Database Administration and Management, IS561
- Database Programming and Applications, IS562
- Business Intelligence Systems, IS563
- Enterprise Data Management and Administration, IS564

Information Systems Tools – any four required

- Visual Basic, IS574
- Advanced Visual Basic, IS575
- Internet-Oriented Programming, IS577
- C++ Programming, IS578
- Java Programming, IS579

Global Outsourcing Management – all four required

- Managing Global Diversity, HR582
- Global IT Outsourcing, IS568
- Risk Assessment and Mitigation in Global Outsourcing, IS569
- Managing Software Development Projects, PM584

Health Information Systems Management – any four required

- Health Service Systems, HS541
- Health Services Finance, HS543
- Healthcare Security, Privacy and Compliance, IS565
- Informatics and Application Systems in Healthcare, IS566
- Healthcare Information Administration and Management, IS567

Project Management – any four required

- Managing Quality, GM588
- Managing Software Development Projects, PM584
- Advanced Program Management, PM587
- Project Cost and Schedule Control, PM592
- Project Risk Management, PM595
- Contract and Procurement Management, PM598
- Advanced Project Management Practices and Professional Exam Preparation, PM605

Electronic Commerce – any four required

- Electronic Commerce Technology Management, EC542
- Electronic Commerce Strategy Management, EC544
- Internet-Oriented Programming, IS577
- Database Applications for Electronic Commerce, IS583
- E-Business Security, SE573

Master of Business Administration

Choose Keller's MBA program with a concentration in Network and Communications Management, Information Security, Information Systems Management or Security Management for a solid combination of managerial and technology expertise.

MBA Program Core Courses – all five required

- Accounting and Finance: Managerial Use and Analysis, FI504
- Applied Managerial Statistics, GM533
- Leadership and Organizational Behavior, GM591
- Managerial Applications of Information Technology, IS535
- Marketing Management, MM522

MBA Program-Specific Courses – all five required

- Managerial Accounting, AC505
- Managerial Finance, FI515
- Legal, Political and Ethical Dimensions of Business, GM520
- Business Economics, GM545
- Business Planning Seminar, GM600

MBA Elective Courses – six credit hours required

Choose any elective for which prerequisite(s) are met. Course offerings are found in Keller's academic catalog, available via keller.edu.

Network and Communications Management Concentration Courses – any four required by students choosing this concentration

- Networking Concepts and Applications, IS589
- Wireless Technologies, TM561
- Wireless Devices and Applications, TM562
- Wireless Networks, TM563
- Management of Wireless Systems, TM564
- Strategic Management of Technology, TM583
- Telecommunications Law and Regulation, TM584
- Network Design and Management, TM585
- Wireless Communication Systems, TM589
- IP Telephony/VoIP, TM590
- Telecommunications Capstone, TM600

Information Security Concentration Courses – any four required by students choosing this concentration

- Principles of Information Security and Privacy, SE571
- Network Security, SE572
- E-Business Security, SE573
- Database Security, SE574
- Information Security Law and Ethics, SE575
- Risk Mitigation and Contingency Planning, SE576
- Cryptography and Security Mechanisms, SE577
- Practices for Administration of Physical and Operations Security, SE578
- Security in Systems Architecture and Applications, SE579
- Disaster Recovery/Forensics and Security, SE591
- IT Governance, SE592



Information Systems Management Concentration Courses – any four required by students choosing this concentration

- Database Administration and Management, IS561
- Database Programming and Applications, IS562
- Business Intelligence Systems, IS563
- Enterprise Data Management and Administration, IS564
- Healthcare Security, Privacy and Compliance, IS565
- Informatics and Application Systems in Healthcare, IS566
- Healthcare Information Administration and Management, IS567
- Global IT Outsourcing, IS568
- Risk Assessment and Mitigation in Global Outsourcing, IS569
- Visual Basic, IS574
- Advanced Visual Basic, IS575
- Internet-Oriented Programming, IS577
- C++ Programming, IS578
- Java Programming, IS579

- Systems Analysis, Planning and Control, IS581
- Database Concepts, IS582
- Database Applications for Electronic Commerce, IS583
- Decision Support and Expert Systems, IS585
- Networking Concepts and Applications, IS589
- Information Systems Capstone, IS600

Security Management Concentration Courses – any four required by students choosing this concentration

- Auditing: An Operational and Internal Perspective Including Fraud Examination, AC562
- Global and Domestic Security Management, GM594
- Legal and Ethical Issues in Security Management, SE581
- Security Risk Analysis and Planning, SE582
- Security Administration and Operation, SE583
- Forensic and Business Investigations Techniques, SE584

**Learn more at keller.edu or call 888.535.5370
to speak with an admissions representative.**

Graduate Certificate in Information Security

Certificate Courses – all six required

- Principles of Information Security and Privacy, SE571
 - Network Security, SE572
 - Practices for Administration of Physical and Operations Security, SE578
 - Security in Systems Architecture and Applications, SE579
 - Disaster Recovery/Forensics and Security, SE591
 - IT Governance, SE592
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Graduate Certificate in Network & Communications Management

Certificate Courses – all seven required

- Networking Concepts and Applications, IS589
 - Principles of Information Security and Privacy, SE571
 - Network Security, SE572
 - Telecommunications Law and Regulation, TM584
 - Network Design and Management, TM585
 - Wireless Communication Systems, TM589
 - IP Telephony/VoIP, TM590
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Graduate Certificate in Wireless Communications

Certificate Courses – six required

- Networking Concepts and Applications, IS589
 - Network Security, SE572
 - or -
 - Wireless Devices and Applications, TM562
 - Wireless Technologies, TM561
 - Wireless Networks, TM563
 - Management of Wireless Systems, TM564
 - Wireless Communication Systems, TM589
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Graduate Certificate in Information Systems Management

Certificate Courses – all five required

- Managerial Applications of Information Technology, IS535
- Systems Analysis, Planning and Control, IS581
- Database Concepts, IS582
- Networking Concepts and Applications, IS589
- Principles of Information Security and Privacy, SE571

Elective Options – two required

- Managerial Applications of Information Technology, IS535
- Database Administration and Management, IS561
- Database Programming and Applications, IS562
- Business Intelligence Systems, IS563
- Enterprise Data Management and Administration, IS564
- Healthcare Security, Privacy and Compliance, IS565
- Informatics and Application Systems in Healthcare, IS566
- Healthcare Information Administration and Management, IS567
- Global IT Outsourcing, IS568
- Risk Assessment and Mitigation in Global Outsourcing, IS569
- Visual Basic, IS574
- Advanced Visual Basic, IS575
- Internet-Oriented Programming, IS577
- C++ Programming, IS578
- Java Programming, IS579
- Systems Analysis, Planning and Control, IS581
- Database Concepts, IS582
- Database Applications for Electronic Commerce, IS583
- Decision Support and Expert Systems, IS585
- Networking Concepts and Applications, IS589
- Information Systems Capstone, IS600
- Principles of Information Security and Privacy, SE571
- Network Security, SE572
- E-Business Security, SE573
- Database Security, SE574
- Information Security Law and Ethics, SE575
- Risk Mitigation and Contingency Planning, SE576
- Cryptography and Security Mechanisms, SE577
- Practices for Administration of Physical and Operations Security, SE578
- Security in Systems Architecture and Applications, SE579
- Disaster Recovery/Forensics and Security, SE591
- IT Governance, SE592

Keller



Graduate School of Management

Visit keller.edu or call 888.535.5370

For comprehensive consumer information, visit keller.edu/studentconsumerinfo

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