Master of Science in Information Technology (MSIT)

Part-time graduate degrees in
IT management, cybersecurity, and data analytics

~ Fully Online or Hybrid Evening/Online ~

Presented by Allison Frankoski, Program Director
www.heinz.cmu.edu/msit

Carnegie Mellon University
HeinzCollege
INFORMATION SYSTEMS · PUBLIC POLICY · MANAGEMENT

Today's Agenda

❑ About CMU's Heinz College

❑ Why Choose MSIT?

- Choice of in-demand majors
- Flexible format for working adults
- Online and/or Evening classes
- Customizable Curriculum
- Career development & networking

❑ Admissions Quick Facts

❑ Q&A

About Heinz College

One college, two schools and then some:

- **School of Information Systems and Management**
- School of Public Policy and Management
- Joint degrees with College of Fine Arts
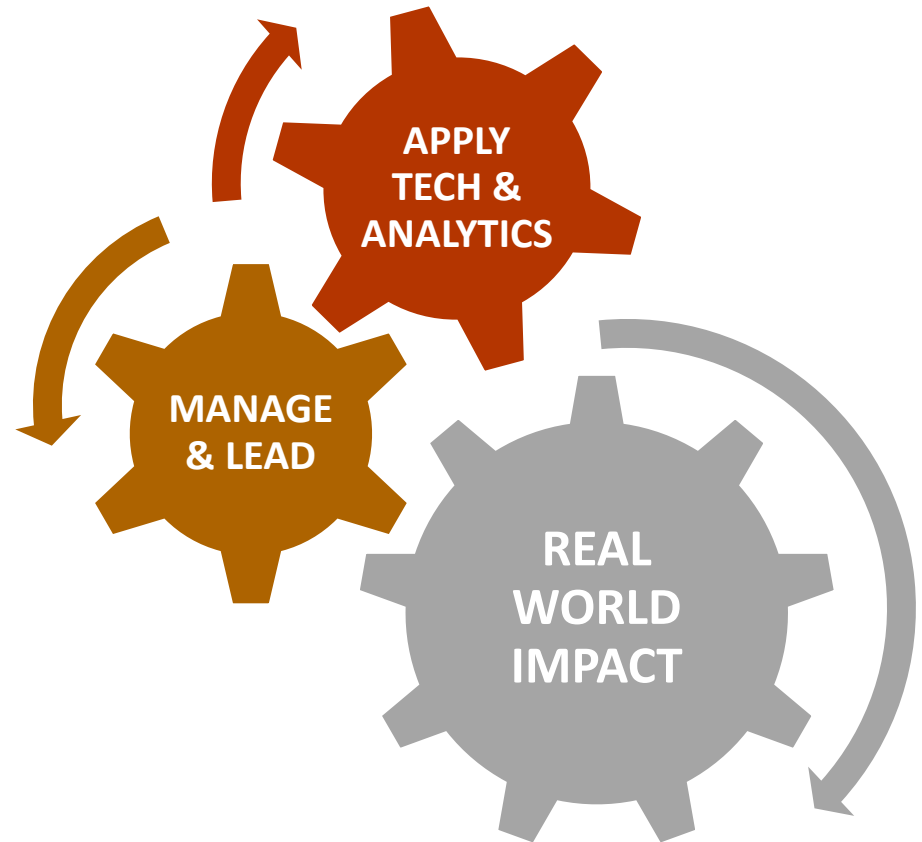- Locations in Washington DC, Los Angeles CA and Adelaide, Australia

Top-ranked Graduate Education in:

- #1 in **Information and Technology Management** (since 2005 by US News&WR)

- #1 in **Cyber Security** by universities.com, 2016

- #1 in **Analytics** – 2016 UPS George D. Smith Prize by INFORMS

- **MSIT** named **#1** Online Masters in IT by thebestschools.org, successfulstudent.org

Carnegie Mellon University

HeinzCollege

INFORMATION SYSTEMS · PUBLIC POLICY · MANAGEMENT

HEINZ COLLEGE

School of Information Systems and Management

- **Practical, relevant coursework**; immediate ROI as you apply learning at your job

- Develop **leaders** who can **apply technology and analytics in innovative ways** to achieve business goals

- Be a Problem Solver. Make an impact!

APPLY TECH & ANALYTICS

MANAGE & LEAD

REAL WORLD IMPACT

MASTER OF SCIENCE IN INFORMATION TECHNOLOGY

Part-time master's degrees designed for experienced, tech-savvy professionals

CHOICE OF MAJORS:

- **MSIT – Information Technology Management**

- **MSIT – Information Security & Assurance**

- **MSIT – Business Intelligence & Data Analytics**

COMING FALL 2021:

MSIT-Info Sec spinoff; but cohort-based, hybrid online/onsite at our DC location.
This program will <u>not</u> be covered in today's presentation due to its different aspects than our current MSIT degrees. Watch for future sessions specifically about this new program.
Learn more and sign up on our mailing list here!

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PART-TIME PROGRAM OPTIONS:

- **ONLINE** *(pre-recorded on-demand lecture videos, some live webinars)*
- **HYBRID online/evening** *(mix of live/on-campus and online classes)*
- **NON-DEGREE** *(get started with a couple of classes prior to admission)*

MASTER OF SCIENCE IN INFORMATION TECHNOLOGY

- **Relevant work experience is essential and leveraged**

- **Convenient online or evening classes**

- **<u>Not</u> a cohort or lock-step program**
  - ↳ Begin in any semester *(January, May, and August)*
  - ↳ Choose the course(s) and credit load that works best for you each term

- **Graduate within 2-3 years of PART-TIME study**
  - ↳ 6 unit and 12 unit classes offered year round in 3 semesters *(see graphic)*
  - ↳ Take 0-30 units per semester; maximum 5 years to finish
  - ↳ **Budget 12 hours of your time/effort each week**, includes 3 hrs of lecture per week
  - ↳ Students applying for **federal student loans must take at least 18 units** to qualify for "half-time status"

Logistics: Semesters and Minis

Fall	Spring	Summer
AUG – DEC (12 unit courses)	JAN – MAY (12 unit courses)	MAY – AUG (12 unit courses)

Mini 1	Mini 2	Mini 3	Mini 4	Mini 5	Mini 6
AUG – OCT 6 units	Oct – Dec 6 units	Jan – Mar 6 units	Mar – May 6 units	May - Jul 6 units	Jul – Aug 6 units

Classes are offered all year-round, but you may take time off and/or vary your pace of study.

MSIT Class Formats

Online

- Asynchronous Lectures: On-Demand Multimedia Videos
- Virtual Classroom in Canvas
- Interaction with faculty and classmates: mostly asynchronous (email, discussion forums) with some live (webinars, chats, online or phone office hours)
- Mostly all MSIT students, some from Australia and Rwanda

On-Campus

- Once-a-week: Monday – Thursday, 6:00 – 9:00 pm*
- Twice-a-week: Mon/Wed or Tue/Thur at 4:30-6:00 pm*
- Online and other daytime classes available
- Classes at other departments are also available
- Mostly full-time students from Heinz sister programs

* CLASS TIMES HAVE BEEN MODIFIED DUE COVID IN AY20-21

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CURRICULUM DETAILS FOR:

- **MSIT – Information Technology Management**
- **MSIT – Information Security & Assurance**
- **MSIT – Business Intelligence & Data Analytics (BIDA)**

MSIT Curriculum Structure

- **Flexible, customizable curriculum**

60 units of core *(specific to major)*
+ 84 units of electives *(lots of choices here)*
= **144 units total**

1 unit ≠ 1 credit! 1 semester-long class = 12 units (equivalent to 4 credits)

Core exemptions and **transfer credit are allowed***.* Either of these can change the 60/84 distribution.

No thesis or capstone project required. Practice and apply on the job as you go through the degree program.

Non-degree enrollment (up to 24 units) of Heinz courses taken prior to admission will count towards MSIT. ***Get short application from Allison.***

	MSIT - Information Technology Management	MSIT - Information Security and Assurance	MSIT - Business Intelligence and Data Analytics
PROGRAMMING PREREQUISITE (for application)	Undergrad level OO programming class or equivalent work experience (Java preferred)	No programming required but familiarity with Python or Java is recommended	No programming required but familiarity with Python or R is recommended
CORE – 60 units	▪ 95-703 Database Management ▪ 95-807 or 95-712 Object Oriented Programming in Java ▪ 95-705 Telecommunications Management ▪ 95-734 Managing Digital Business ▪ 95-706 Object Oriented Analysis and Design ▪ 95-808 IT Project Management	▪ 95-752 Intro to Information Security Management ▪ 95-705 Telecommunications Management ▪ 95-758 Network and Internet Security ▪ 95-748 Software & Security ▪ 95-755 Information Security Risk Management ▪ 94-806 Privacy in the Digital Age ▪ 95-744 Cybersecurity Policy & Governance	▪ 95-703 Database Management ▪ 95-796 Statistics for IT Managers ▪ 95-710 Economic Analysis ▪ 94-806 Privacy in the Digital Age ▪ 95-797 Data Warehousing ▪ 95-868 Exploring & Visualizing Data ▪ 95-791 Data Mining ▪ 95-865 Unstructured Data Analytics ▪ 95-866 Adv Business Analytics
ELECTIVES – 84 units *(See distance course catalog on our website for complete listing.)*	e.g. Digital Transformation, IT Sourcing & Automation, Financial Accounting, Strategy Development, Business Process Modeling, IT Leadership	e.g. Cryptography, Linux & Open Source, Python Programming, Ethical Penetration Testing, Applied Threat Analysis, Network Defenses	e.g. Decision Making Under Uncertainty, Business Process Modeling, R Programming, Data-Focused Python, NoSQL Databases, GIS, Managing Analytics Projects
CAPSTONE/THESIS	None	None	None

Lifelong Connections!

Sláinte

CARNEGIE MELLON UNIVERSITY
HEINZ COLLEGE
MSIT LEADERSHIP CIO CISO
SUMMER SYMPOSIUM

COMMENCEMENT

100K STRONG
CMU ALUMNI

cmuconnect

CAREER SERVICES

Carnegie Mellon University
TARTANS

SPENCER SEARLE
Senior Manager
Network Access Services
CMU - 2012

- ❖ **Commencement – its just the beginning!**

- ❖ **Networking Opportunities with students & alumni**

- ❖ **MSIT Summer Leadership Symposium**

- ❖ **Lifelong Career Services from Heinz College**

- ❖ **Upskill with Heinz Alumni Rate on future courses and executive edu**

MSIT PROGRAM RECAP:

- Over 20 years of proven success in adult education

- Top-ranked graduate education

- Rigorous and practical coursework

- Designed for the working professional
  - Curriculum leverages work experience
  - Flexible online and/or evening formats
  - 2-3 years of part-time study

- Scholarships available!! Click here.

- One-on-one advising and personal student service

- Networking and leadership development opportunities for students and alumni

- Nearly 1,000 MSIT Alumni

MSIT Application Criteria

TRANSCRIPT + TWO RECS + RESUMÉ + ESSAY + TOEFL IELTS + GRE GMAT = COMPLETE

ADMISSIONS INFO AND FREE ONLINE APPLICATION IS HERE!

PREREQUISITES TO APPLY:

Minimum 3 years of full-time, professional **work experience** and **bachelor's degree** or international equivalent. Some prior programming experience may be required depending on MSIT major selected. See Application Checklist for details!

Application Deadlines	Expected Start Semester
November 1, 2020	SPRING – Begins February 1, 2021
April 1, 2021	SUMMER – Begins May 24, 2021
July 1, 2021	FALL – Begins August 30, 2021

CONTACT Heinz College Admissions Office: hnzdmit@andrew.cmu.edu or 1.412.268.2164

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