Heinz College MSIT ONLINE Courses TENTATIVE PROJECTED Schedule - Effective April 2023

This tentative, projected schedule is for planning purposes only and subject to change without notice. The 95/94-### online courses with Z in its section are specifically for Heinz College's MSIT program students. Some exceptions for other Heinz programs and MSIT students at the Rwanda campus will be considered. (The other course #'s are from other departments for which we have secured permission for Heinz MSITs to enroll.) See Carnegie Mellon University's official **Schedule of Classes (SOC)** for up-to-date course offerings:

https://enr-apps.as.cmu.edu/open/SOC/SOCServlet	ise oneings.				
	ust to early December (includes mini 1,2)				
95-734 Z Managing Digital Business	ust to early December (includes milit 1,2)				
95-754 Z Managing Digital Business 95-758 Z Network and Internet Security <i>[Prereq: 9]</i>	05 752 on 10 621 on inforce month and				
	formerly called Hacking for Defense/Homeland Security)				
* *	5 units; requires extensive programming & group work/				
FALL MINI-1 [M1: late August to mid-October]	FALL MINI-2 [M2: mid-October to early December]				
95794-Z1 Tech Startup I: Market Discovery	95808-Z2 IT Project Management				
95796-Z1 Statistics for IT Managers	94842-Z2 Programming R for Analytics [Prereq:95-796]				
95898-Z1 Intro to Python Programming	95748-Z2 Software and Security [Prereq: 95-752]				
95874-Z1 Agile Methods (LIVE ON ZOOM)	NEW in F23: 95797-Z2 Data Warehousing [Prereq: 95-703]				
95835- A1 Time Series Forecasting w/ Python [Prereq:95-796, ML	95866-Z2 Adv Business Analytics [Prereq:95-796, ML class like 95-791/95-				
class like 95-791/95-854] (LIVE ON ZOOM)	854]				
	95799-Z2 Linux & Open Source				
	95746-A2 Cloud Security (LIVE ON ZOOM)				
	NEW in F23: 95883-A2 Ethical Penetration Testing				
	(limited remote seats, live on ZOOM)				
SPRING (S23 and beyond) - mid	January to early May (includes mini 3, 4)				
95-703 Z Database Management					
95-807 Z Object Oriented Programming (Java) for Manag	Gers [Prerea: undergrad level prog class or equiv work exp]				
NEW IN S24: 95-744 Z Cybersecurity Policy & Governa					
	ed from 19-682, availability in remote determined by that dept.)				
94-891 A Lean Innovation Lab (project-based class; former					
15-619 A/B Cloud Computing <i>[NOTE: Course is 15 units</i>					
SPRING MINI-3 [M3: mid-January to mid-March]	SPRING MINI-4 [M4: mid-March to early May]				
, , ,					
94806-Z3 Privacy in Digital Age (add'l sec Y4 in S23 only)	95722-Z4 Digital Transformation				
S23 ONLY - moves to Summer in 2024: 95706-Z3 Object-	95755-Z4 Info Security Risk Management				
oriented Analy & Des [Prereq:95-807/95-712]	05005 74 Hashmark Data Anal Har 5D 05 707 05 000 05 000 1				
95888-Z3 Data-Focused Python	95865-Z4 Unstruct Data Analytics [<i>Prereq: 95-796, 95-888/95-898</i>]				
S23 ONLY: 95884-Z3 Network Defense	95883- A4 Ethical Penetration Testing (limited remote seats)				
S23 ONLY: 95744-Z3 Cybersecurity Policy & Gov I	S23 ONLY: 95743-Z4 Cybersec Policy & Gov II [Prereq: 95-744]				
	95746- A4 Cloud Security (LIVE ON ZOOM)				
94700-Z3 Org Design & Implementation (LIVE ON ZOOM)	94854- A4 Developing as a Leader (LIVE ON ZOOM)				
NEW EFF S23: 95854-Z3 ML with Tableau [Prereq: 95-796]	ODD YRS: 94881-Z4 Managing Analytic Projects (LIVE ON ZOOM)				
(LIVE ZOOM; replaces 95791 Data Mining)	[Prereq: Stats and one prog (R/Python/SAS) is expected]				
95835-A3 Time Series Forecasting w/ Python [Prereq:95-796, ML	95835- B4 Time Series Forecasting w/ Python [Prereq:95-796, ML class				
class like 95-791/95-854] (LIVE ON ZOOM)	like 95-791/95-854] (LIVE ON ZOOM)				
SUMMER (M23 and beyond) - late	e May to early August (includes mini 5, 6)				
94-802 Z Geographic Information Systems [databa					
95-705 Z Telecommunications Management	and presequent that i statement				
95-752 Z Intro to Information Security Manageme	nt				
SUMMER MINI-5 [M5: late May to late June]	SUMMER MINI-6 [M6: late June to early August]				
91717-Z5 Bus Writing for Leaders (LIVE ON ZOOM)	91869-Z6 Conflict Resolution				
95868-Z5 Exploring & Visualizing Data [Prereg: 95-796]	95710-Z6 Economic Analysis				
95884-Z5 Network Defenses [95-799 or linux exp suggested]	95737-Z6 NoSQL Database Management [Prereg: 95-703]				
95835- A5 Time Series Forecasting w/ Python	95760-Z6 Decsn Making Under Uncertainty [Prereq: 95-796]				
[Prereq:95-796, ML class like 95-791] (LIVE ON ZOOM)	95810-Z6 Blockchain Fundamentals (LIVE ON ZOOM)				
EVEN YRS Starting M24: 95706-Z5 Obj-oriented Analy & Des [Prereg:95-807/95-712]	NEW in M23: 95797-Z6 Data Warehousing [Prereq: 95-703]				
NEW! ODD YRS Starting M23: 95829-Z5 Software Design for Data Scientists [Prior programming exp recommended]	EVEN YRS Starting M22: 95759-Z6 Malicious Code (LIVE ON ZOOM)				
NEW! ODD YRS Starting M23: 95812-Z5 Intro to ITIL Framework (LIVE ON ZOOM)	NEW! ODD YRS Starting M23: 95749-Z6 Cryptography				

Heinz College MSIT Program Current List of ONLINE Courses

Course #	Course Title	Units	Prereq/Notes	Typically Offered	CORE: IT Mgt	CORE: InfoSec	CORE: BIDA
95-703	Database Management	12		Spring	<u> </u>		
95-705	Telecommunications Management	12		Summer	\checkmark	\checkmark	
<u>95-706</u>	Object Oriented Analysis & Design	6	95-807 or 95-712	Spring M3	\checkmark		
<u>95-710</u>	Economic Analysis	6		Summer M6			\checkmark
<u>95-722</u>	Digital Transformation	6		Spring M4			
95-734	Managing Digital Business	12		Fall	V		
<u>95-737</u> <u>95-743</u>	NoSQL Database Management Cybersecurity Policy & Governance II	6	95-703 95-744; one-time offering in Spr 2023	Summer M6 Spr M4 2023 only			
95-744	Cybersecurity Policy & Governance I	6	last time as a mini course in Spr 2023	Spring M3		\checkmark	
<u>95-744</u>	Cybersecurity Policy & Governance (12 unit version starting Spr 2024)	12	Starting Spring 2024, 95-743 & 95-744 combine into one 12-unit course.	Spring		V	
<u>95-746</u>	Cloud Security	6	LIVE ON ZOOM	Fall M2, Spr M4			
<u>95-748</u>	Software & Security	6	95-752; some prog experience suggested	Fall M2			
<u>95-749</u>	Cryptography	6		Summer M6- ODD yrs only			
<u>95-752</u>	Intro to Info Security Management	12		Summer		☑	-
<u>95-755</u>	Info Security Risk Management	6		Spring M4		☑	
<u>95-758</u> <u>95-759</u>	Network & Internet Security Malicious Code Analysis	6	95-752 or infosec work exp LIVE ON ZOOM	Fall Summer M6- EVEN yrs only		V	
95-760	Decision Making Under Uncertainty	6	95-796	Summer M6			
95-791	Data Mining (replaced by 95-854 ML with Tableau starting Spring 2023)	6	95-796 required; course or work exp in R prog is suggested	Last online offering in Summer 2022			V
95-794	Tech Startup I: Market Discovery	6	LIVE ON ZOOM	Fall M1			
<u>95-796</u>	Statistics for IT Managers	6		Fall M1			\checkmark
95-797	Data Warehousing	6	95-703 Returns in Sum23; LIVE ON ZOOM	Fall M2, Summer M6			V
<u>95-799</u>	Linux & Open Source	6	See online description for soft prereqs.	Fall M2			
<u>95-807</u>	Object Oriented Programming for IT Managers	12	Undergrad level OOP in Java or C++ or equivalent work exp. Free online prep course at CMU's Open Learning Initiative.	Spring			
<u>95-808</u>	IT Project Management	6		Fall M2	\checkmark		
94-806	Privacy in the Digital Age	6		Spring M3		\square	V
95-810	Blockchain Fundamentals	6	LIVE ON ZOOM	Summer M6			
95-812	Intro to ITIL Framework	6	LIVE ON ZOOM	NEW in Sum23 M5-ODD yrs			
<u>95-829</u>	Software Design for Data Scientists	6	prog course or exp recommended	NEW in Sum23 M5-ODD yrs			
<u>95-835</u>	Time Series Forecasting in Python	6	95-796, Python (95-898 or 95-888)	Fall M1/M2, Spr M3/M4			
<u>95-854</u>	Machine Learning with Tableau	6	95-796 New in Spr23; replaces 95-791 DM	Spr M3			\checkmark
<u>95-865</u>	Unstructured Data Analytics	6	95-796, Python (95-898 or 95-888)	Spring M4			V
<u>95-866</u>	Advanced Business Analytics	6	95-796, 95-791/95-854	Fall M2			\checkmark
<u>95-868</u>	Exploring & Visualizing Data (new title starting Sum23 Applied Exploratory Data Analysis)	6	95-796 required; 94-842 or R prog exp suggested	Summer M5			V
95-874	Agile Methods	6	LIVE ON ZOOM	Fall M1			

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Course #	Course Title	Units	Prereq/Notes	Typically Offered	CORE: IT Mgt	CORE: InfoSec	CORE: BIDA			
94-881	Managing Analytics Projects	6	95-796 and exp with one analytics environ (e.g. R, Python, SAS); LIVE ON ZOOM	Spring M4-ODD yrs						
95-883	Ethical Penetration Testing	6	LIVE ON ZOOM	Fall M2, Spr M4						
<u>95-884</u>	Network Defenses	6	Recommend 95-799	Summer M5						
95-888	Data-Focused Python	6	One programming class or equiv exp	Spring M3						
95-898	Intro to Python Programming	6	Assumes some prior experience with prog	Fall M1						
94-700	Organizational Design & Implementation (ODI)	6	LIVE ON ZOOM	Spr M3-ODD yrs						
94-802	Geographic Information Systems	12	Database course required for non-MSITs	Summer						
94-842	Programming R for Analytics	6	95-796	Fall M2						
94-891	Lean Innovation Lab (formerly Hacking for Defense)	12	Team project-based	Fall, Spring						
ONLINE	COURSES OFFERED BY OTHER CM	IU DE	PARTMENTS:							
91-717	Business Writing for Leaders	6		Summer M5						
91-869	Conflict Resolution	6		Summer M6						
<u>15-619</u>	Cloud Computing READ COURSE LINK CAREFULLY!	<u>15</u>	WARNING: Extensive prog, group work and time commitment!	Fall, Spring						
<u>19-682/</u> <u>94-857</u>	Strategy & Mgmt of Tech Innovation	12	Online students should reg for the Remote section of 19-682, not 94-857.	Spring						
17-6xx	D sections of Master of Software Engineering online program courses		https://mse.isri.cmu.edu/applicants/mse-as- online/plan.html							
17-7хх	B sections of MSIT-Privacy Engineering online program courses		https://privacy.cs.cmu.edu/masters/plan/index.html							
	Search for other Remote delivery courses on the University Schedule of Classes		https://enr-apps.as.cmu.edu/open/SOC/SOCServlet							