

INFORMATION TECHNOLOGY (ENTERPRISE MANAGEMENT) - MASTER OF INFORMATION TECHNOLOGY (ONLINE)

The objective of this professional Masters of Information Technology (M-IT) program is to provide opportunities for working professionals and traditional technology students to increase their knowledge and skillsets in the growing field of Information Technology. This M-IT degree is a non-thesis, 100% online, professional development degree offered by the Department of Engineering Technology and Surveying Engineering (ETSE) in the NMSU College of Engineering. This degree is designed for working IT professionals and students interested in pursuing an advanced technology degree. Topics include system architecture, computer networking, development and application of software tools, cybersecurity, and virtual systems in the context of enterprise IT decision-making.

Advanced Information Technology topics are also included and differently emphasized according to the selected degree concentration:

- **No Concentration** - provides the ability to choose from various advanced IT-related topics
- **Cyber Defense Concentration** - focused on cybersecurity topics to prepare students for roles in protecting and defending digital systems.
- **Enterprise Management Concentration (this option)** - focuses on advanced enterprise management topics to prepare students for roles in designing, implementing, and overseeing large-scale IT systems and services.

Prefix	Title	Credits
Program Course List		
Required Courses		15
E T 520	From IT Tech to IT Manager ²	
E T 551	Enterprise Architecture I ^{1,2}	
E T 552	Enterprise Architecture II ^{1,2}	
E T 560	Strategic Leadership for IT Managers ²	
E T 595	Capstone Projects in Information Technology ¹	
IT-Specific Electives (choose at least two courses) ³		6 - 15
E T 505	Special Topics in Information Technology	
E T 539	Advanced Enterprise Security	
E T 555	Virtualization	
E T 562	Development and Operations	
E T 577	Advanced Computer Networking	
E T 583	Mobile App Programming and Development	
E T 585	White Hat System Testing	
Other Pre-Approved Electives: ⁴		9-0
BCIS 550	Information Systems Analysis and Design	
BCIS 575	Database Management Systems	
BCIS 561	Business Analytics I	
BCIS 566	Business Analytics II	
CSCI 5140	Database Management Systems I	
CSCI 5405	Artificial Intelligence I	
CSCI 5415	Introduction to Data Mining	
CSCI 5310	Bioinformatics Programming	

CSCI 5420	Applied Machine Learning I	
I E 523	Advanced Engineering Economy	
I E 563	Topics in Engineering Administration	
I E 571	Advanced Quality Control	
Total Credits		30

- ¹ Masters of Information Technology common-core required course
- ² Concentration-Specific Required Course
- ³ Must take six credits from this area, but can take up to fifteen credits (or 2-5 courses from the IT-related electives list).
- ⁴ For guidance on selecting elective courses outside the department or college, or to request consideration of additional electives, please contact your faculty advisor.

The plan of study below was created with working professionals in mind. You will find guidelines for part-time students taking two courses per semester, including summer. Please note that the Masters of Information Technology program can be completed as a full-time student in one calendar year if that is your preference. Contact the program director or faculty advisor for other plans of study options and for further information. The program website is located at <https://engr.nmsu.edu/Academics/pmp-it.html>.

First Year		
Fall		Credits
E T 551	Enterprise Architecture I ^{1,2}	3
E T 555	Virtualization (Or other elective from IT-Specific Electives List) ³	3
Credits		6
Spring		
E T 552	Enterprise Architecture II ^{1,2}	3
E T 562	Development and Operations (Or other elective from IT-Specific Electives List) ³	3
Credits		6
Summer		
E T 520	From IT Tech to IT Manager ²	3
E T 585	White Hat System Testing (Or other pre-approved elective) ^{3,4}	3
Credits		6
Second Year		
Fall		
E T 539	Advanced Enterprise Security (Or other pre-approved elective) ^{3,4}	3
E T 560	Strategic Leadership for IT Managers ²	3
Credits		6
Spring		
E T 577	Advanced Computer Networking (Or other pre-approved elective) ^{3,4}	3
E T 595	Capstone Projects in Information Technology ¹	3
Credits		6
Total Credits		30

- ¹ Masters of Information Technology required common-core course
- ² IT Enterprise Management Concentration Required Course
- ³ IT-Specific Elective, select at least two courses (6 credits) from the pre-approved list.
- ⁴ Refer to the list of other pre-approved electives. For guidance on selecting elective courses outside the department or college, or to

request consideration of additional electives, please contact your
faculty advisor.