

CoC GVSU Courses	GVSU Credits	GVSU Programs	FSEGT-UT - El Manar Courses (English) Program: Information Systems Engineering & Data Science (ISIDS)	UTM Credits
CIS 615 Information Security Principles	3	ACS, CYB, SE	MISIDS-S2 - Opt2: Cybersecurity LBIS5 - Fundamentals of IT security	2 2
CIS 635 Knowledge Discovery and Data Mining	3	ACS, AI, DSA, HIB, SE	MISIDS-S2 - Data Mining MISIDS-S2 - Big Data Processing	2 4
CIS 641 Systems Analysis and Design	3	ACS, AI, SE	MISIDS-S1 - Information system design (Agile development methods and others)	4
CIS 642 IS Project Management	3	ACS	LBIS5 - Project management	4
CIS 643 Information Systems Policy and Strategy	3	ACS	LBIS5 - Information technology management (ERP, SCM...)	3
CIS 655 Cloud Applications Development	3	AI, SE	MISIDS-S1 - Opt2: Cloud computing LBIS5 - Service-oriented architecture	4 4
CIS 657 Mobile Application Development	3	ACS, HCC, SE	LBIS5 - Mobile development	2
CIS 658 Web Architectures	3	ACS, SE	MISIDS-S1 - Opt1: Dot NET Core (replaced by Backend Development) MISIDS-S2 - New Web Technology	3 3
CIS 660 Data Engineering	3	ACS, DSA, HIB, SE	MISIDS-S1 - Foundations of BigData and NoSQL LBIS5 - Introduction to Big Data and Cloud	3 3
CIS 676 Database Architecture	3	ACS	MISIDS-S1 - Advanced databases	3
CIS 678 Machine Learning	3	ACS, AI, DSA, HCC, HIB, SE	MISIDS-S2 - Machine Learning	3
PSM 662 Seminar in Professional Science Practice	2	DSA, HIB	MISIDS-S1 - Corporate culture	2
STA 518 Statistical Computing and Graphics with R	3	DSA	MISIDS-S1 - Mathematical Foundations of Scientific Data	2
STA 526 Multivariate Data Analysis	3	DSA	MISIDS-S2 - Data analysis	2