

Manufacturing Systems Engineering and Management Department

Tentative Long-term Course Schedule (AY 2022 - 2024)

Course No.	Description	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024
MSE 101/L (1/1)	Introduction to Engineering	Yes		Yes		Yes
MSE 220/L (2/1)	Construction Materials	Yes	Yes	Yes	Yes	Yes
MSE 227 (3)	Engineering Materials	Yes	Yes	Yes	Yes	Yes
MSE 227L (1)	Engineering Materials	Yes	Yes	Yes	Yes	Yes
MSE 248/L (2/1)	Engineering CAD & Graphics		Yes		Yes	
MSE 300 (3)	Construction Tech. Economy	Yes		Yes		Yes
MSE 302 (3)	Women in Math., Science, & Eng.	Yes	Yes	Yes	Yes	Yes
MSE 303 (3)	Innovation, Invention & Tech.	Yes	Yes	Yes	Yes	Yes
MSE 304 (3)	Engineering Economic Analysis	Yes	Yes	Yes	Yes	Yes
MSE 362 (3)	Engineering Statistical Applications		Yes	Yes		Yes
MSE 401 (3)	Intro to Engineering and Tech	Yes		Yes	Yes	Yes
MSE 402 (3)	Engineering Project Mgmt.		Yes	Yes	Yes	Yes
MSE 403CS (3)	Facilities Planning Design	Yes		Yes		Yes
MSE 406 (3)	Engineering Cost Analysis		Yes		Yes	
MSE 407 (3)	Manufacturing Systems		Yes		Yes	
MSE 409/L (2/1)	Fundamentals of Computer-Aided	Yes		Yes		Yes
MSE 410/L (2/1)	Production Systems Modeling		Yes		Yes	
MSE 412/L (2/1)	Manufacturing Process		Yes		Yes	
MSE 415 (3)	Product Design			Yes		
MSE 420 (3)	New Product Innovation and	Yes				Yes
MSE 488A (2)	MSEM Senior Design I	Yes		Yes		Yes
MSE 488BCS (2)	MSEM Senior Design II		Yes		Yes	
MSE 494A	Academic Internship (1)	Yes	Yes	Yes	Yes	Yes
MSE 504 (3)	Engineering Management		Yes		Yes	
MSE 505 (3)	Engineering Decision Analysis		Yes		Yes	
MSE 507 (3)	Lean Mfg. Systems	Yes	Yes	Yes	Yes	Yes
MSE 508/L (2/1)	CAD/CAM Systems and Lab	Yes		Yes		Yes
MSE 509 (3)	Computer-Aided Manufacturing		Yes		Yes	
MSE 511/L (2/1)	Robotics with Applications and Lab	Yes		Yes		Yes
MSE 512 (3)	Fundamentals of MEMS			Yes		
MSE 513 (3)	NDE Methods and Analysis		Yes		Yes	
MSE 515 (3)	Engineering Supply Chain Systems	Yes	Yes	Yes	Yes	Yes
MSE 516/L (2/1)	CAD/CAM Advanced Tools and		Yes			
MSE 523 (3)	Composite Materials				Yes	
MSE 527/L (2/1)	Mechanical Behavior of Materials			Yes		
MSE 528/L (2/1)	Principles of Materials Engineering	Yes				Yes
MSE 531 (3)	Corrosion			Yes		

MSE 536 (3)	Introduction to Advanced		Yes			
MSE 540 (3)	Sustainability for Engineers		Yes			
MSE 550 (3)	Thin Film Technology		Yes			
MSE 556 (3)	Nanomaterials and Nanotechnology			Yes		
MSE 562 (3)	Introduction to Data Analytics for			Yes	Yes	Yes
MSE 564 (3)	Knowledge discovery from				Yes	Yes
MSE 600 (3)	Decision Tools for Engineering	Yes	Yes	Yes	Yes	Yes
MSE 602 (3)	Entrepreneurship &	Yes	Yes	Yes	Yes	Yes
MSE 603 (3)	Computer Integrated Mfg.	Yes		Yes		Yes
MSE 604 (3)	Engineering Economy and	Yes	Yes	Yes	Yes	Yes
MSE 606 (3)	Production and Operations	Yes	Yes	Yes	Yes	Yes
MSE 608B (3)	Leadership of Engineering	Yes	Yes	Yes	Yes	Yes
MSE 609 (3)	Advanced Topics in CAD/CAM	Yes		Yes		Yes
MSE 611 (3)	Robotics and Programmable		Yes		Yes	
MSE 614 (3)	Intelligent Manufacturing		Yes		Yes	
MSE 617 (3)	Seminar in Quality Engineering	Yes	Yes	Yes	Yes	Yes
MSE 618 (3)	Six Sigma Quality Engineering		Yes	Yes	Yes	Yes
MSE 624 (3)	Failure Analysis				Yes	
MSE 629 (3)	Phase Transformations		Yes			
MSE 630 (3)	Electronic Materials			Yes		
MSE 690 (3)	Materials Eng. Practicum	Yes	Yes	Yes	Yes	Yes
MSE 697MFS (3)	Manufacturing Systems Directed Comprehensive Studies	Yes	Yes	Yes	Yes	Yes
MSE 697MGT (3)	Engineering Management Directed Comprehensive Studies	Yes	Yes	Yes	Yes	Yes
MSE 697MITL (3)	Materials Engineering Directed Comprehensive Studies	Yes	Yes	Yes	Yes	Yes