

**ENGINEERING MANAGEMENT PROGRAM (EMEN) COMPREHENSIVE COURSE LIST-OCTOBER 2023****(Fall and spring change infrequently and summer can change year to year)****GRADUATE COURSES**

Course No.	Course Title	Credits	Usually Offered	Prerequisites
EMEN 5005	Introduction to Applied Statistical Methods	3	Fall	
EMEN 5015	Engineering Communication	3	Spring, Fall	
EMEN 5020	Finance for Engineering Managers	3	Spring, Fall	
EMEN 5030	Fundamentals of Project Management	3	Spring, Fall	
EMEN 5032	Project Management Application and Execution	3	Spring	5030
EMEN 5033	Aerospace Program Management	3	Spring	5030 (recommended)
EMEN 5042	Data Science for Quality Improvement	3	Spring	
EMEN 5050	Leading Oneself	3	Spring, Fall	
EMEN 5052	Leading Others	3	Fall	
EMEN 5053	Leading Technical Organizations	3	Spring	
EMEN 5054	Neuroscience of Leadership	3	Fall	
EMEN 5055	Leading for Diversity, Equity & Inclusion in Engineering	3	Summer	
EMEN 5065	Global Topics in Aerospace	3	Fall	
EMEN 5080	Ethical Decision Making	3	Spring	
EMEN 5090	Marketing and Technology Ventures	3	Fall	
EMEN 5094	Entrepreneurship for Engineers	3	Fall	
EMEN 5230	Resilience Engineering Leadership in Crisis	3	Spring	
EMEN 5315	Business Law for Engineering Managers	3	Spring	
EMEN 5316	Engineering, Prod Liability & Litigation Process	3	Fall (odd years)	
EMEN 5400	Product Development and Design	3	Spring	
EMEN 5405	Fundamentals of System Engineering	3	Spring, Fall	
EMEN 5500	Lean and Agile Management	3	Fall	
EMEN 5830	Special Topics: Digital Transformation	3	Spring	
EMEN 5830	Special Topics: Digital Eng & Model-Based Sys Eng for Tech Managers	3	Fall	
EMEN 5830	Special Topics: System Req, Verification & Validation Fundamentals	3	Spring	
EMEN 6810	Capstone	3	Spring	5015

**UNDERGRADUATE COURSES**

Course No.	Course Title	Credits	Usually Offered	Prerequisites
EMEN 3100	Introduction to Engineering Management	3	Spring, Summer, Fall	
EMEN 4030	Project Management Systems	3	Spring, Summer, Fall	
EMEN 4050	Leadership and Professional Skills	3	Spring, Summer, Fall	
EMEN 4055	Designing for Diversity, Equity & Inclusion for Engineering	3	Spring, Summer	
EMEN 4100	Engineering Economics	3	Spring, Summer, Fall	
EMEN 4110	Supply Chain Management	3	Spring, Fall	
EMEN 4120	Managing Business Processes	3	Spring, Fall	
EMEN 4200	Engineering & Entrepreneurship for the Dev World	3	Summer	
EMEN 4400	Quality Management	3	Fall	
EMEN 4405	Systems Engineering	3	Spring, Fall	
EMEN 4800	Technology Ventures and Marketing	3	Fall	4820
EMEN 4820	Entrepreneurial Product Development	3	Spring	
EMEN 4825	New Venture Creation	3	Spring, Fall	