

Obtain two graduate certificates and your master's in Systems Engineering

At Missouri S&T, it is possible to obtain two graduate certificates as part of your master's degree track in Systems Engineering. The sequence of required course curriculum in each emphasis area is listed below.

CYBER PHYSICAL SYSTEMS EMPHASIS

SYS ENG 5101 Systems Engineering and Analysis
SYS ENG 6102 Information Based Design
SYS ENG 6103 Systems Life Cycle Costing
SYS ENG 6104 Systems Architecting
Receive Systems Engineering Graduate Certificate

SYS ENG 6321 Modeling Complex Systems
COMP ENG 5410 Introduction to Computer
Communication Networks
SYS ENG 5323 Wireless Networks
SYS ENG 6322 Resilient Networks
Receive Network Centric Graduate Certificate

SYS ENG 6542 Model Based Systems Engineering
SYS ENG 6196 Systems Engineering Capstone
Receive Master of Science in Systems Engineering

ENGINEERING MANAGEMENT EMPHASIS

SYS ENG 5101 Systems Engineering and Analysis
SYS ENG 6102 Information Based Design
SYS ENG 6103 Systems Life Cycle Costing
SYS ENG 6104 Systems Architecting
Receive Systems Engineering Graduate Certificate

ENG MGT 5320 Project Management
ENG MGT 5111 Management for Engineers
ENG MGT 6211 Advanced Financial Management
ENG MGT 5412 Operations Management Science
Receive Engineering Management Graduate Certificate

SYS ENG 6196 Systems Engineering Capstone
SYS ENG 6542 Model Based Systems Engineering
Receive Master of Science in Systems Engineering



PROJECT MANAGEMENT EMPHASIS

SYS ENG 5101 Systems Engineering and Analysis
SYS ENG 6102 Information Based Design
SYS ENG 6103 Systems Life Cycle Costing
SYS ENG 6104 Systems Architecting
Receive Systems Engineering Graduate Certificate

ENG MGT 5320 Project Management
ENG MGT 6322 Case Studies in Project Management
ENG MGT 6323 Global Project Management
ENG MGT Elective: Contact your advisor(s) for alternative course
Receive Project Management Graduate Certificate

SYS ENG 6196 Systems Engineering Capstone
SYS ENG 6542 Model Based Systems Engineering
Receive Master of Science in Systems Engineering

FINANCIAL ENGINEERING EMPHASIS

SYS ENG 5101 Systems Engineering and Analysis
SYS ENG 6102 Information Based Design
SYS ENG 6103 Systems Life Cycle Costing
SYS ENG 6104 Systems Architecting

Receive Systems Engineering Graduate Certificate

ENG MGT 6212 Investment
ENG MGT 6213 Financial Engineering
ENG MGT 6214 Financial Engineering II
ENG MGT 6215 Financial Risk Management

Receive Financial Engineering Graduate Certificate

SYS ENG 6196 Systems Engineering Capstone
SYS ENG 6542 Model Based Systems Engineering

Receive Master of Science in Systems Engineering

COMPUTATIONAL INTELLIGENCE ENGINEERING EMPHASIS

SYS ENG 5101 Systems Engineering and Analysis
SYS ENG 6102 Information Based Design
SYS ENG 6103 Systems Life Cycle Costing
SYS ENG 6104 Systems Architecting

Receive Systems Engineering Graduate Certificate

SYS ENG 5211 Computational Intelligence
SYS ENG 5212 Introduction to Neural Networks and Applications S
YS ENG 6213 Deep Learning and Advanced Neural Networks
SYS ENG Elective: Contact your advisor(s) for alternative course

Receive Computational Intelligence Engineering Graduate Certificate

SYS ENG 6196 Systems Engineering Capstone
SYS ENG 6542 Model Based Systems Engineering

Receive Master of Science in Systems Engineering

MODEL BASED SYSTEMS ENGINEERING EMPHASIS

SYS ENG 5101 Systems Engineering and Analysis
SYS ENG 6102 Information Based Design
SYS ENG 6103 Systems Life Cycle Costing
SYS ENG 6104 Systems Architecting

Receive Systems Engineering Graduate Certificate

SYS ENG 6239 Smart Engineering System Design
SYS ENG 6110 Risk Modeling and Optimization under Uncertainty
SYS ENG 6412 Mathematical Programming

SYS ENG Elective: Contact your advisor(s) for alternative course

Receive Model Based Systems Engineering Graduate Certificate

SYS ENG 6196 Systems Engineering Capstone
SYS ENG 6542 Model Based Systems Engineering
Receive Master of Science in Systems Engineering

CONTACT INFORMATION

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