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

FNGINFFRING MANAGEMENT FMPHASIS

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



SYSTEMS ENGINEERING GRADUATE PROGRAMS FOR WORKING PROFESSIONALS

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

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