

Engineering Technology Management

Requirements

Required courses for freshmen or transfer students without an approved technical associate of science or an associate of applied science degree:

Required courses: (53 credits)

ECT 160 Electronic Fundamentals
MET 103 Introduction to Technical Graphics with CAD
MET 130 Introduction to Engineering and Technology
MET 299 CAD Fundamentals
MET 329 Fluid Power Technology
MET 404 Engineering Design and Management
MET 405 Economic Analysis for Engineering and Technology
MFG 225 Introduction to Materials, Processes, and Testing
SFTY 318 Industrial Accident Prevention I
SFTY 319 Industrial Accident Prevention II
TMGT 361 Quality Systems and Tools
TMGT 374 Lean Manufacturing Systems
TMGT 421 Research and Development in Technology
TMGT 429 Workplace Law for the Technical Manager
TMGT 461 Lean Six Sigma
TMGT 471 Production Planning and Control I
TMGT 477 Plant Layout and Material Handling
TMGT 492 Industrial Supervision

Select one from the following: (3 credits)

Note: MET 351 is recommended

MET 351 Cooperative Industrial Practice
TMGT 491 Creativity and Ideation Techniques and Practices

Select from the following: (3-6 credits)

MET 215 Graphic Analysis
or the combination of
MATH 115 College Algebra
and
MATH 123 Analytic Geometry and Trigonometry

Required Science courses: (8 credits)

PHYS 105 General Physics I
PHYS 105L General Physics I Laboratory
CHEM 105 General Chemistry I
CHEM 105L General Chemistry I Laboratory

Select one from the following: (3 credits)

MATH 241 Principles of Statistics
SFTY 341 Applied Probability and Statistics for Engineering and Technology

or degree completion with associate of science

(42 directed credits, 6 credits of free electives, plus 12 credits of Foundational Studies)

Degree completion requirements for transfer students with an associate of science from a regionally accredited college in a related technical area

This option is designed primarily to be a degree completion program that articulates with regionally accredited associate of science degree programs in industrial and engineering technology related areas. This degree completion option includes all course work for satisfying Indiana State University graduation requirements.

Required Courses: (36 credits)

MET 404 Engineering Design and Management
MET 405 Economic Analysis for Engineering and Technology
SFTY 318 Industrial Accident Prevention I
SFTY 319 Industrial Accident Prevention II
TMGT 361 Quality Systems and Tools
TMGT 374 Lean Manufacturing Systems
TMGT 421 Research and Development in Technology
TMGT 429 Workplace Law for the Technical Manager
TMGT 461 Lean Six Sigma
TMGT 471 Production Planning and Control I
TMGT 477 Plant Layout and Material Handling
TMGT 492 Industrial Supervision

Select one from the following: (3 credits)

Note: MET 351 is recommended

MET 351 Cooperative Industrial Practice
TMGT 491 Creativity and Ideation Techniques and Practices

Select one from the following: (3 credits)

MATH 241 Principles of Statistics

SFTY 341 Applied Probability and Statistics for Engineering and Technology

Remaining Foundational Studies as per ISU Policy (12 credits):

Junior level composition 3 credits (see Foundational Studies Program)

Ethics and social responsibility 3 credits (see Foundational Studies Program)

Upper division integrative electives 6 credits (see Foundational Studies Program)

or degree completion with associate of applied science

Degree completion requirements for transfer students with an associate of applied science from a regionally accredited college in a related technical area (45 credits plus Foundational Studies)

This option is designed primarily to be a degree completion program that articulates with regionally accredited associate of applied science degree programs in industrial and engineering technology related areas. Any Indiana State University required major or Foundational Studies lower-level course work not completed in the associate of applied science degree must be completed before graduation from this degree program.

Required courses: (36 credits)

MET 404 Engineering Design and Management

MET 405 Economic Analysis for Engineering and Technology

SFTY 318 Industrial Accident Prevention I

SFTY 319 Industrial Accident Prevention II

TMGT 361 Quality Systems and Tools

TMGT 374 Lean Manufacturing Systems

TMGT 421 Research and Development in Technology

TMGT 429 Workplace Law for the Technical Manager

TMGT 461 Lean Six Sigma

TMGT 471 Production Planning and Control I

TMGT 477 Plant Layout and Material Handling

TMGT 492 Industrial Supervision

Select one from the following: (3 credits)

Note: MET 351 is recommended

MET 351 Cooperative Industrial Practice

TMGT 491 Creativity and Ideation Techniques and Practices

Select from the following: (3-6 Credits)

May be satisfied in transfer:

MET 215 Graphic Analysis
or the combination of
MATH 115 College Algebra
and
MATH 123 Analytic Geometry and Trigonometry

Select one from the following: (3 credits)

MATH 241 Principles of Statistics
SFTY 341 Applied Probability and Statistics for Engineering and Technology