

# MID-STATE TECHNICAL COLLEGE MECHANICAL DESIGN TECHNOLOGY TO SOUTHERN ILLINOIS UNIVERSITY B.S. TECHNICAL RESOURCE MANAGEMENT TRANSFER GUIDE

## Mid-State Technical College General Education Courses

Mid-State Catalog Number	Mid-State Course Name	University Catalog Number	University Course Name	Credits
10-801-136	English Composition 1	ENGL 101	English Composition 1	3
10-801-196 OR 10-801-198	Oral/Interpersonal Communication OR Speech <i>Recommended course</i>	GENL 1XX OR CMST 101	General Elective OR Intro to Oral Communication	3
10-809-166 OR 10-809-172	Introduction to Ethics: Theory and Application <i>Recommended course</i> OR Introduction to Diversity Studies	PHIL 104 OR CULT 1XX	Ethics OR Multicultural Elective	3
10-804-118	Intermediate Algebra with Applications	GENL 1XX	General Elective	3
10-804-196	Trigonometry with Applications	MATH 109	Trigonometry and Analytic Geometry	3
10-806-143 OR 10-806-154	College Physics 1 OR General Physics 1	SCI 1XX	Physical Science Elective	3-4
10-809-198 OR 10-809-188	Introduction to Psychology <i>Recommended course</i> OR Developmental Psychology	PSYC 102 OR GENL 1XX	Intro to Psychology OR General Elective	3

## Mid-State Technical College Program Courses

Mid-State Catalog Number	Mid-State Course Name	University Catalog Number	University Course Name	Credits
10-420-101	Manufacturing Processes-Machining	GENL 1XX	General elective	2
32-420-325	Inspection with Geometric Dimensioning	GENL 1XX	General elective	3
10-457-119	Fabrication Fundamentals 1	GENL 1XX	General elective	3
10-457-119	Fabrication Fundamentals 2	GENL 1XX	General elective	2
10-462-120	Industrial Hydraulics & Pneumatics	GENL 1XX	General elective	2
10-606-113	Tool & Fixture Design	GENL 1XX	General elective	2
10-606-114	Machine Design 1	GENL 1XX	General elective	2
10-606-115	Machine Design 2	GENL 1XX	General elective	3
10-606-117	Designing for Manufacturability	GENL 1XX	General elective	3
10-606-119	Mechanisms	GENL 1XX	General elective	2
10-606-131	Strengths of Materials	GENL 1XX	General elective	3
10-606-145	Applied Mechanics	GENL 1XX	General elective	3
10-606-163	Materials of Industry	GENL 1XX	General elective	3
10-606-164	Technical Detailing	GENL 1XX	General elective	1
10-606-165	Intro to SolidWorks	GENL 1XX	General elective	1
10-606-166	Intermediate SolidWorks	GENL 1XX	General elective	1
10-607-106	Excel for Engineering	GENL 1XX	General elective	1
10-623-106	Intro to AutoCAD	GENL 1XX	General elective	1
10-623-114	Intro to Inventor	GENL 1XX	General elective	1
10-623-171	Lean Six Sigma	GENL 1XX	General elective	1
10-623-176	Quality Assurance	GENL 1XX	General elective	1

## Remaining Courses to Complete at Southern Illinois University

University Catalog Number	University Course Name	Credits
Social Science	Choose from course list	3
Life Science	Choose from course list	3
Fine Arts	Choose from course list	3
Multicultural	Choose from course list	3
TRM 316	Applications of Technical Writing	3
TRM 364	Work Center Management	3
TRM 383	Data Applications & Interpretation	3
TRM 425	Operations Management	3
TRM 464	Managing for Quality	3
TRM 470	Project Management	3
TRM Support Courses	Select 2 from: TRM 332, TRM 361, TRM 362, TRM 363E, TRM 421, TRM 440	6
Approved Electives	300/400 Level	15
TRM 319 OR TRM 320 OR TRM 350 OR TRM 358	As necessary to meet 42 senior institution hour requirement	3
GENL 1XX	As needed to reach 120 hours	3

Total Credits Completed at Southern Illinois University

57

## Additional Information

- Each candidate for a bachelor's degree must complete the requirements listed:
  - Hour Requirements: Student must complete at least 120 semester hours of credit. Each student must have at least 42 hours in courses that number 300 or above from a four-year institution.
  - Residence Requirements: Student must complete the residency requirement by taking a total of 42 semester hours at SIU Carbondale.
  - Grade Point Average Requirements: Student must have a C average for all work taken at SIU Carbondale. Some academic programs may require a higher graduating major GPA.