



TRINE UNIVERSITY

Siena Heights Transfer Guide to BS - Mechanical Engineering

76 hours total eligible for transfer. Only 44 hours left to complete 120 hours of program requirements.

TRINE UNIVERSITY BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (129 HRS)				
Siena Heights University BS - General Engineering				76
Trine University BS - Mechanical Engineering				44
			Total Credits	129
General Education Requirements – 41 hours		Transfer Institution Information		
Communication – 9 hrs.		Credits	Siena Heights Univ	Credits
ENG 133	Technical Communication	3		
HUM 203	Humanities Seminar	3		
SP 203	Effective Speaking	3	TSD 101	3
Humanities and Social Science – 9 hrs.				
ECO 213	Microeconomics	3	ECO 221	3
	Social Science or Humanities Elective	3	FINE & PERFORMING ARTS	3
	Humanities Elective	3	PHILOSOPHY or RELIGIOUS STUDIES	3
Mathematics and Science – 23 hrs.				
MA 134	Calculus I	4	MAT 181	4
MA 164	Calculus II	4	MAT 182	4
MA 213	Calculus III	3	MAT 292	3
CH 104	General Chemistry I	4	CHE 141	4
PH 224	University Physics I	4	PHY 161	4
PH 234	University Physics II	4	PHY 162	4
Additional Requirements - 12 hrs.				
EGR 143	Engineering Graphics	3	ENR 104	3
MA 233	Differential Equations	3	MAT 282	3
MA 313	Introduction to Linear Algebra	3	MAT 345	3
MA 393	Probability & Statistics	3	ENR 348	3
Engineering Science - 23 hrs.				
ES 213	Statics	3	ENR 150	3
ES 223	Dynamics	3	ENR 260	3
ES 233	Engineering Materials	3	ENR 331	3
ES 243	Solid Mechanics	3	ENR 250	3
ES 253	Electrical Science	3	ENR 270	3
ES 313	Thermodynamics	3	ENR 220	3
ES 343	Heat Transfer	3		
ES 382	Engineering Economics	3		
Mechanical Engineering Core Requirements – 35 hrs.				
GE 101	Introduction to Engineering	1		
MAE 112	Intro to MATLAB & Excel	2		
MAE 202	Mechanical Engineering Analysis	2	ENR 202 (junior standing)	2
MAE 241	Manufacturing Processed & Equipment Lab	1		
MAE 242	Manufacturing Processed & Equipment	2		
MAE 3033	Fluid Dynamics for Mechanical Engineers	3		
MAE 323	Thermodynamics II	3		
MAE 353	Machine Component Design	3		
MAE 363	Introduction to Mechatronics	3		
MAE 373	Computer-Aided Machine Design	3		
MAE 453 or	Mechanical Vibration or	3		
MAE 4023	System Dynamics & Controls	3		
MAE 463	Mechanical Measure Lab	3		
MAE 4053	Mechanical Engineering Design I	3		
MAE 4063	Mechanical Engineering Design II	3		
Engineering Electives – 12 hrs.				
9 hrs. must be MAE 300+ level, but the remaining 3 hrs. may be CO, GE, or any approved 300+ level ASEC course.				
	Engineering Elective	3	ENR 391	3
MAE XX3	MAE 300+ level	3		
MAE XX3	MAE 300+ level	3		
MAE XX3	MAE 300+ level	3		
CO 453	Co-Op Work Experience	3		
CO 452	Co-Op Work Experience	2		
CO 451	Co-Op Work Experience	1		
	300 Level or Higher ASEC Course	3		
Electives – 6 hrs.				
	Elective	3	ENG 101	3
	Elective	3	ENG 102	3
TOTAL		129		76

Transfer Policy

- Official transcripts and scores sent to Trine University.
- A grade of “C” or higher earned.