

Tyler Junior College to Stephen F. Austin State University - B.S. Mechantronics Engineering Technology

Tyler Junior College - Fall Semester - Year One			
Course	Course Name	CH	Possible SFA Equivalent
ENGR 1201	Introduction to Engineering	2	ENGR 1301/1001
MATH 1314	College Algebra	3	MATH 1314
ENGL 1301	Composition I	3	ENGL 1301
TECM 1303	Technical Calculations	3	MTEC 1210/1110
CETT 1402	Electricity Principles	4	PHYS 1310/1110
IEIR 1302	Introduction to Direct Current Circui	3	Prereq for CETT 1325
Total Semester Hours		18	

Tyler Junior College - Fall Semester - Year Two			
Course	Course Name	CH	Possible SFA Equivalent
PHYS 1401	College Physics I	4	PHYS 1301/1101
ELPT 2319	Programmable Logic Controllers I	3	MTEC 2322
DFTG 2340	Solid Modeling/Design	3	Prereq for ARCE 2344/ENGR 2310?
RBTC 2347	Computer Integrated Manufacturing	3	MTEC 2221
Total Semester Hours		13	

SFA - Fall Semester - Year Three		
Course	Course Name	Credit Hours
CHEM 1311/11	General Chemistry I/Lab	4
MTEC 3323	Advanced Automation Systems and	3
MTEC 3140	Mechantronics Engineering Lab I	1
ENGR 3351	Electronics	3
MATH 1342	Introduction to Probability and Stati	3

Tyler Junior College - Spring Semester - Year One			
Course	Course Name	CH	Possible SFA Equivalent
ITSE 1302	Computer Programming	3	CSCI 1302
MATH 1325	Calculus for Business and Social Sciences	3	MATH 1325
MFGT 1302	Introduction to Automated Manufcaturing	3	Prereq for RBTC 2347
ELPT 1325	National Electrical Code I	3	MTEC 3130 and 3131?
CETT 1325	Digital Fundamentals	3	MTEC 3343
DFTG 1305	Intoduction to Technical Drawing	3	Prereq for DFTG 2340
Total Semester Hours		18	

Tyler Junior College - Fall Semester - Year Two			
Course	Course Name	CH	Possible SFA Equivalent
PHYS 1402	College Physics II	4	PHYS 1302/1102
HIST 1301	United States History I	3	HIST 1301
	Creative Arts Core	3	CA Core
GOVT 2305	Federal Government	3	GOVT 2305
Total Semester Hours		13	

Total Hours 62
Total WECM 34
Total General Ed 31

SFA - Spring Semester - Year Three		
Course	Course Name	Credit Hours
MTEC 1220	Machines and Tooling	2
MTEC 3310	Applications of Fluids and Heat Transfer	3
MTEC 3141	Mechantronics Engineering Lab II	1
MTEC 3232	Lean Six Sigma	2
ENGR 2342	Materials Sciences	3

MTEC 2301	Engineering Mechanics - Statics	3
Total Semester Hours		17

MTEC 2330	Mechanics for Mechatronics	3
Total Semester Hours		14

SFA - Fall Semester - Year Four		
Course	Course Name	Credit Hours
ENGR 4260/40	Engineering Capstone Design I/Lab	2
ENGR 3344/30	Microcomputer Interfacing/Lab	3
MTEC 4360	Engineering Economics	3
MTEC 4324	Robotics	3
GOVT 2306	Texas Government	3
Total Semester Hours		14

SFA - Spring Semester - Year Four		
Course	Course Name	Credit Hours
ENGL 1302	Research and Argument	3
HIST 1302	U.S. History II	3
ENGR 4270/40	Engineering Capstone Design II/Lab	2
MTEC 4356	Electrical Machines and Transformers	3
GOVT 2306	Texas Government	3
Total Semester Hours		14

Total Hours for Degree

121