

Attachment A

THE PROGRAM OF STUDY
Middle Tennessee State University
And
Columbia State Community College

A.S. in Mechanical Engineering (TTP) to B.S. in Mechatronics Engineering - Articulation Requirements

Students graduating from CoSCC, A.S. in Mechanical Engineering (TTP) will receive credit for the following courses at MTSU:

General Education Requirements		
CoSCC Course	MTSU Course	
Communication		9 hours
ENGL 1010 - English Composition I	ENGL 1010 - Expository Writing	3
ENGL 1020 - English Composition II	ENGL 1020 - Research and Arg. Writing	3
SPCH 1010 - Fund of Speech Comm or SPCH 1030 - Argument and Debate	COMM 2200 – Fund of Comm	3
History – Take 2 courses		6 hours
HIST 1110 - Survey of World Civ I HIST 1120 - Survey of World Civ II HIST 2010 - Survey of US History I HIST 2020 - Survey of US History II HIST 2030 - Tennessee History		
Humanities/Fine Arts - Take 3 courses One must be a literature course		9 hours
ART 1030 - Intro to Visual Arts ARTH 2010 - Survey of Art History I ARTH 2020 - Survey of Art History II ENGL 2015 - Intro to Film Studies ENGL 2130 - Survey of Am Lit ENGL 2230 - Survey of British Lit ENGL 2330 - Survey of World Lit ENGL 2920 - Creative Writing HUM 1130 - Arts and Culture I HUM 1131 - Arts and Culture II MUS 1030 - Music Appreciation PHIL 1030 - Intro to Philosophy PHIL 2030 - Intro to Ethics PHIL 2033 - Major World Religions THEA 1030 - Intro Theatre & Perf	Nine credits of Fine Arts – See MTSU catalog for course and prefix requirements	
Social/Behavioral Sciences - Take two courses		6 hours
ECON 2010 - Macroeconomics ECON 2020 - Microeconomics GEOG 1010 - Physical Geog I GEOG 1020 - Physical Geog. II	Six credits of Social/Behavioral Sciences met	

GEOG 2010 - World Regional Geog. PHED 2120 - Ess Lifetime Wellness POL 201 – Intro to Politics and Gov POLS 1030 - American Gov. POLS 2010 - State and Local Gov. PSYC 1030 - General Psychology PSYC 2130 - Life Span Psy SOC 210 – Cultural Anthropology SOC 1010 - Intro to Sociology SOC 1020 - Social Problems SOC 2010 - Marriage and Family		
Natural Sciences		8 hours
PHYS 2110 - Physics I	PHYS 2110/2111 - Calculus-based Physics I	4
CHEM 1110- General Chemistry I	CHEM 1110- General Chemistry I	4
*Mathematics		4 hours
MATH 1910 – Cal & Anal. Geom. I	MATH 1910 - Calculus I	
General Education Total		42 hours

Students must obtain a grade of C- (C minus) or higher in the following courses to be accepted to MTSU Mechatronics Engineering program:

Area of Emphasis Requirements:		
CoSCC Course	MTSU Course	
MATH 1920 - Cal & Analyt Geom II	MATH 1920 - Calculus II	4
MATH 2010 - Linear Algebra	MATH 2010 - Linear Algebra	3
MATH 2110 - Cal & Analyt Geom III	MATH 3110 - Calculus III	4
MATH 2120 - Differential Equations	MATH 3120 - Differential Equations	3
PHYS 2120 - Physics II	PHYS 2120/2121 - Calculus-based Physics II	4
ENGR 2110 - Statics	ENGR 2110 - Statics	3
ENGR 2120 - Dynamics	ENGR 2120 - Dynamics	3
Area of Emphasis Total at CoSCC		24 hours

The A.S. program in Mechanical Engineering (TTP) requires 66 credits at CoSCC

MTSU Program of Study

Students successfully completing the Bachelor's degree in Mechatronics Engineering program will have a total of **128 credits**. Students have a full or part time option for BS completion.

Courses Requirements at MTSU: ENGR 1100, ENGR 1210, ENGR 2100, ENGR 2130, ENGR 3510, ENGR 3520, ENGR 3530, ENGR 3550, ENGR 3560, ENGR 3590, ENGR 3915, ENGR 3920, ENGR 3930, ENGR 3970, ENGR 4500, ENGR 4510, ENGR 4520, ENGR 4530, ENGR 4580, ENGR 4590, CSCI 1170.

Suggested **Full Time** MTSU scheduling for the hybrid program based on prerequisites/co-requisites:

MTSU Semester 1 (Fall)		MTSU Semester 2 (Spring)		(Summer)
ENGR 1100	3	ENGR 2100	3	
ENGR 1210	3	ENGR 3510	3	
ENGR 2130	3	ENGR 3520	3	
ENGR 3550	3	ENGR 3530	3	
ENGR 3560	3	ENGR 3590	3	
	15	ENGR 3930	3	
			18	
MTSU Semester 3 (Fall)		MTSU Semester 4 (Spring)		
ENGR 4500	1	ENGR 3915	3	
ENGR 4510	3	ENGR 3970	3	
ENGR 4520	3	ENGR 4530	3	
ENGR 4580	3	ENGR 4590	3	
ENGR 3920	3		12	
CSCI 1170	4			
	17			

Total: 62 credits at MTSU