

Attachment A

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

A.A.S. in Mechatronics to B.S. in Mechatronics Engineering - Articulation Requirements

Students graduating from MSCC, A.A.S. in Mechatronics will receive credit for the following general education courses at MTSU:

General Education Requirements		
MSCC Course	MTSU Course	
Communication		6 hours
ENGL 1010 – English Composition I	ENGL 1010 – Expository Writing	3
SPCH 1010 – Fundamentals of Speech	COMM 2200 – Fundamentals of Communication	3
Humanities/Fine Arts (choose one)		3
<ul style="list-style-type: none"> • ARTA 1030 - Art Appreciation • ARTH 2010 - Survey of Art History I • ARTH 2020 - Survey of Art History II • MUSA 1030 - Music Appreciation • THEA 1030 - Introduction to Theatre 	Three credits of Fine Arts met	
Social/Behavioral Sciences (choose one)		3
<ul style="list-style-type: none"> • ANTH 2010 - Introduction to Anthropology • COMM 1010 - Introduction to Mass Communications • ECON 2010 - Macroeconomics • ECON 2020 - Microeconomics • GEOG 1030 - Cultural Geography • GEOG 2010 - World Regional Geography • HPE 2340 - Wellness Perspectives and Lifestyles • POLS 1030 - American Government • POLS 2010 - State and Local Government • PSYC 1030 - General Psychology • SOCI 1010 - Introduction to Sociology • SOCI 1020 - Social Problems • SOCI 2010 - Marriage and Family 	Three credits of Social/Behavioral Sciences met	
Natural Sciences		4
PHYS 2110 - Calculus Based Physics I	PHYS 2110/2111 – Calculus Based Physics I	
*Mathematics		4
MATH 1910 - Calculus I	MATH 1910 – Calculus I	
General Education Total		20 hours

* MATH 1710 and MATH 1720 (or MATH 1730 at MTSU) are prerequisites for MATH 1910

The following are Area of Emphasis requirements for the B.S. in Mechatronics Engineering at MTSU and the MSCC equivalent courses which will be accepted for transfer toward the degree requirement. A grade of C- (C minus) or higher is required for all Area of Emphasis courses.

Area of Emphasis Requirements:		
MSCC Course	MTSU Course	
CISP 1010, MECH 1100, 1200, 1300, 1500, 2100, 2200, 2300, 2400, 2500, 2600 (44 credit hours)	CSCI 1170, ENGR 1100, 2100, 2130, 3520, 3570, 3915, 3920, 3970, 4510, 4520, ENGL 3620 (37 credit hours)	
Area of Emphasis Total at MSCC		(44) hours

A major in Mechatronics Engineering requires a minimum of 64 semester hours of courses to include:

(List courses/requirements to be taken in addition to *Area of Emphasis Requirements* listed above)

ENGR 1210, ENGR 2110, ENGR 2120, ENGR 3510, ENGR 3550, ENGR 3560, ENGR 3590, ENGR 3930, ENGR 4500, ENGR 4530, ENGR 4580, ENGR 4590

Total: 34 credits

* (Notes)

Students completing this articulation will not meet MTSU's graduation requirement of 42 credits at the Upper Division (junior/senior) level. Ten of the required 42 will automatically be waived for students that have earned an A.A.S. in Mechatronics from MSCC and fulfill all other course requirements as outlined in this agreement for the B.S. in Mechatronics Engineering at MTSU.

The following are additional courses that must be completed in order to earn a B.S. in Mechatronics Engineering from MTSU:

(List requirements)

ENGL 1020 (3)
 HIST 2010, 2020, or 2030 (6)
 Literature (3)
 Fine Art (3)
 CHEM 1110/1111 (4)
 Social Behavioral Science (3)
 MATH 1920 (4)
 MATH 3110 (4)
 MATH 3120 (3)
 PHYS 2120/2121 (4)

Total: 37 credits

Students successfully completing this program will have at least 135 credits. (Students have a full or part-time option for BS completion)

Suggested **Full Time** scheduling based on prerequisites/co-requisites:

Semester 1 (Fall)	Semester 2 (Spring)	(Summer)
ENGR 2110 (3) ENGR 3510 (3) ENGR 3550 (3) MATH 1920 (4) CHEM 1110/1111 (4)	ENGR 2120 (3) ENGR 3590 (3) ENGR 3930 (3) PHYS 2120/2121 (4) MATH 3110 (4)	ENGR 3560 (3) ENGR 1210 (3)
Semester 3 (Fall)	Semester 4 (Spring)	
MATH 3120 (3) ENGR 4500 (1) ENGR 4580 (3) ENGL 1020 (3) Hum/FA elective (3) Soc/Beh Sci elective (3)	ENGR 4530 (3) ENGR 4590 (3) HIST 2010, 2020, or 2030 (6) Hum/FA elective (3)	