2024–25 Mechatronics Engineering Academic Map Department of Engineering Technology Middle Tennessee State University • Murfreesboro

An academic map is a suggested four-year schedule of courses based on degree requirements in the undergraduate catalog. This sample schedule serves as a general guideline to help build a full schedule each term. Milestones, courses, and special requirements necessary for timely progress to complete a major are designated to keep you on track to graduate in four years. *Missing milestones could delay your program.*

This map is not a substitute for academic advisement—contact your advisor if you have any questions about scheduling or about your degree requirements. Also see the current undergraduate catalog (catalog.mtsu.edu) for a complete list of requirements and electives. *Note: Requirements are continually under revision, and there is no guarantee they will not be changed or revoked; contact the department and/or program area for current information.*

Suggested Fall/Spring Four-Year Schedule



STATE UNIVERSITY.



Scan the QR code or click here for more information about the new True Blue Core (TBC).

FRESHMAN FALL			FRESHMAN SPRING				
Course	Hours	Milestones/Notes	Course	Hours	Milestones/Notes		
ENGR 1100	3	Prereq: MATH 1730 with C or better	ENGR 2100	3			
MATH 1910	4	TBC; Major; Take MATH 1730 first if weak background in Math. May take MATH 1910 with accep. Math ACT (26).	MATH 1920	4	Prereq: MATH 1910 with C or better		
CHEM 1110/1111	4	TBC; Major	Information Literacy	3	ТВС		
Written Communication	3	ТВС	PHYS 2110/2111	4	TBC; Major; Prereq: MATH 1910 with C or better		
Creativity and Cultural Expression	3	TBC; one must come from Discovery	Human Society and Social Relationships	3	TBC; one must come from Discovery		
SUBTOTAL	17		SUBTOTAL	17			
SOPHOMOR	E FALL		SOPHOMORE SPRING				
ENGR 2110	3	Prereq: MATH 1910; ENGR 1100 with C or better; PHYS 2110/2111	ENGR 2120	3	Prereq: ENGR 2110; MATH 1920		
ENGR 2210	3	Prereq: CHEM 1110	ENGR 2130	3	Prereq: ENGR 1100, MATH 1910, PHYS 2120/2121		
MATH 3110	4	Prereq: MATH 1920 with C or better	MATH 3120	3	Prereq: MATH 1920 with C or better		
History and Civic Learning	3	TBC; one must come from Discovery	Creativity and Cultural Expression Literature	3	твс		
PHYS 2120/2121	4	Prereq: PHYS 2110 with C or better	CSCI 1170	4	Prereq: MATH 1730 with C or better		
SUBTOTAL	17		SUBTOTAL	16			
JUNIOR F	ALL		JUNIOR SF	PRING			
ENGR 3510	3	Prereq: ENGR 2130, MATH 3120	ENGR 3970	3	Prereq: Jr. standing		
ENGR 3560	3	Prereq: ENGR 2210, ENGR 2110, MATH 1920	ENGR 3530	3	Prereq: ENGR 3510; may be taken concurrently		
ENGR 3550	3	Prereq: ENGR 2120, MATH 3110	ENGR 3590	3	Prereq: ENGR 2120, CSCI 1170		
ENGR 3915	3	Jr./Sr. standing	MATH 2010, MATH 2050, MATH 3180, MATH 3260, MATH 4200, or MATH 4230	3			
ENGR 3520	3	Prereq: ENGR 2130, CSCI 1170	ENGR 4501	3	Prereq: POD		
Non-Written Communication	3	твс					
SUBTOTAL	18		SUBTOTAL	15			
SENIOR FALL			SENIOR SPRING				
ENGR 4500	1	Sr. standing	ENGR 4530	3	Prereq: ENGR 3540		
ENGR 4510	3	Prereq: ENGR 3520, ENGR 3530	ENGR 4590	3	Prereq: ENGR 4580, 3000 level		
ENGR 3540	3	Prereqs: MATH 3120; ENGR 3520; ENGR 3530 (may be taken concurrently)	ENGR 4520	3	Prereq: ENGR 3510		
ENGR 4580	3	Prereq: ENGR 3550, ENGR 3590	History and Civic Learning	3	TBC; one must come from Discovery		
Human Society and Social Relationships	3	TBC; one must come from Discovery	Creativity and Cultural Expression	3	TBC; one must come from Discovery		
SUBTOTAL	13		SUBTOTAL	15			
TOTAL HOURS IN PROGRAM: 128							

Mechatronics Engineering Suggested Fall/Spring/Summer Four-Year Schedule

You may choose to attend a summer term to reduce your load during fall or spring terms but still stay on track to graduate in four years. Refer to www.mtsu.edu/financial-aid/scholarships for information regarding use of the Lottery Scholarship for the summer term.

NOTE: Learning Support courses will alter the sequences on this map.

FRESHMAN	FALL		FRESHMAN	SPRING	
Course	Hours	Milestones/Notes	Course	Hours	Milestones/Notes
ENGR 1100	3	Prereq: MATH 1730 with C or better	ENGR 2100	3	
MATH 1910	4	TBC; Major; Take MATH 1730 first if weak background in Math. May take MATH 1910 with acceptable Math ACT score (26).	MATH 1920	4	Prereq: MATH 1910 with C or better
CHEM 1110/1111	4	TBC; Major	Human Society and Social Relationships	3	TBC; one must come from Discovery
Written Communication	3	твс	PHYS 2110/2111	4	TBC; Major; Prereq: MATH 1910 with C or better
SUBTOTAL	14		SUBTOTAL	14	
		FRESHMA	N SUMMER		
PHYS 2120/2121	4	Prereq: PHYS 2110 with C or better	Information Literacy	3	твс
SUBTOTAL	4		SUBTOTAL	3	
SOPHOMOR	E FALL		SOPHOMORE	SPRIN	G
ENGR 2110	3	Prereq: MATH 1910; ENGR 1100 with C or better; PHYS 2110/2111	ENGR 2120	3	Prereq: ENGR 2110; MATH 1920
ENGR 2210	3	Prereq: CHEM 1110	ENGR 2130	3	Prereq: ENGR 1100, MATH 1910, PHYS 2120/2121
MATH 3110	4	Prereq: MATH 1920 with C or better	MATH 3120	3	Prereq: MATH 1920 with C or better
Creativity and Cultural Expression Literature	3	твс	CSCI 1170	4	Prereq: MATH 1730 with C or better
SUBTOTAL	13		SUBTOTAL	13	
		SOPHOMOF			l
Creativity and Cultural Expression	3	TBC; one must come from Discovery	Human Society and Social Relationships	3	TBC; one must come from Discovery
SUBTOTAL	3		SUBTOTAL	3	
JUNIOR I	ALL		JUNIOR SI	PRING	
ENGR 3510	3	Prereq: ENGR 2130, MATH 3120	ENGR 3970	3	Prereq: Jr. standing
ENGR 3560	3	Prereq: ENGR 2210, ENGR 2110, MATH 1920	ENGR 3530	3	Prereq: ENGR 3510; may be taken concurrently
ENGR 3550	3	Prereq: ENGR 2120, MATH 3110	ENGR 3590	3	Prereq: ENGR 2120, CSCI 1170
ENGR 3915	3	Jr./Sr. standing	MATH 2010, MATH 2050, MATH 3180, MATH 3260, MATH 4200, or MATH 4230	3	
ENGR 3520	3	Prereq: ENGR 2130, CSCI 1170	ENGR 4501	3	Prereq: POD
SUBTOTAL	15		SUBTOTAL	15	
		JUNIOR	SUMMER		
Non-Written Communication	3	твс	History and Civic Learning	3	TBC; one must come from Discovery
SUBTOTAL	3		SUBTOTAL	3	
SENIOR I	ALL		SENIOR S	PRING	
ENGR 4500	1	Sr. standing	ENGR 4530	3	Prereq: ENGR 3540
ENGR 4510	3	Prereq: ENGR 3520, ENGR 3530	ENGR 4590	3	Prereq: ENGR 4580, 3000
ENGR 3540	3	Prereqs: MATH 3120; ENGR 3520; ENGR 3530 (may be taken concurrently)	ENGR 4520	3	Prereq: ENGR 3510
ENGR 4580	3	Prereq: ENGR 3550, ENGR 3590	History and Civic Learning	3	TBC; one must come from Discovery
Creativity and Cultural Expression	3	TBC; one must come from Discovery			-
SUBTOTAL	13		SUBTOTAL	12	
		TOTAL HOURS	N PROGRAM: 128		

MTSU is an AA/EEO employer; created using the 2024-25 undergraduate catalog