2023–24 Mechatronics Engineering Academic Map
Department of Engineering Technology
Middle Tennessee State University • Murfreesboro

MIDDLE TENNESSEE STATE UNIVERSITY.

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.*

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 (see back). NOTE: Learning Support courses will alter the sequences on this map.

Suggested Fall/Spring Four-Year Schedule

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 (Math)	4	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 (Nat Sci)	4		ENGL 1020 (Comm)	3	
ENGL 1010 (Comm)	3		PHYS 2110/2111 (Nat Sci)	4	Prereq: MATH 1910 with C or better
Hum/FA (Rubric 1)	3		Soc/Beh Sci (Rubric 1)	3	
SUBTOTAL	**17**		**SUBTOTAL**	**17**	
SOPHOMORE FALL			SOPHOMORE SPRING		
ENGR 2110	3	Prereq: MATH 1910 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
HIST 2010, 2020, 2030, 2040, or 2050	3		ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	
PHYS 2120/2121	4	Prereq: PHYS 2110	CSCI 1170	4	Prereq: MATH 1730 with C or better
SUBTOTAL	**17**		**SUBTOTAL**	**16**	
JUNIOR FALL			JUNIOR SPRING		
ENGR 3510	3	Prereq: ENGR 2130, MATH 3120	ENGR 3970	3	Prereq: Jr. standing
ENGR 3560	3	Prereq: ENGR 1210, ENGR 2110, MATH 1920	ENGR 3530	3	Prereq: ENGR 3510
ENGR 3550	3	Prereq: ENGR 2120, MATH 3110	ENGR 3590	3	Prereq: ENGR 2120, CSCI 1170
ENGR 3915	3	Jr./Sr. standing	MATH elective	3	
ENGR 3520	3	Prereq: ENGR 2130, CSCI 1170	ENGR 4501	3	Prereq: POD
COMM 2200 (Comm)	3				
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: See catalog	ENGR 4520	3	Prereq: ENGR 3510
ENGR 4580	3	Prereq: ENGR 3550, ENGR 3590	HIST 2010, 2020, 2030, 2040, or 2050	3	
Soc/Beh Sci (Rubric 2)	3		Hum/FA (Rubric 2)	3	
SUBTOTAL	**13**		**SUBTOTAL**	**15**	
TOTAL HOURS IN PROGRAM: 128					

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

Refer to www.mtsu.edu/financial-aid/scholarships for information regarding use of the Lottery Scholarship for the summer term.

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 (Math)	4	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 (Nat Sci)	4		Soc/Beh Sci (Rubric 1)	3	
ENGL 1010 (Comm)	3		PHYS 2110/2111 (Nat Sci)	4	Prereq: MATH 1910 with C or better
SUBTOTAL	14		SUBTOTAL	14	

FRESHMAN SUMMER					
PHYS 2120/2121	4	Prereq: PHYS 2110	ENGL 1020 (Comm)	3	
SUBTOTAL	4		SUBTOTAL	3	

SOPHOMORE FALL			SOPHOMORE SPRING		
ENGR 2110	3	Prereq: MATH 1910 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
ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3		CSCI 1170	4	Prereq: MATH 1730 with C or better
SUBTOTAL	13		SUBTOTAL	13	

SOPHOMORE SUMMER					
Hum/FA (Rubric 1)	3		Soc/Beh Sci (Rubric 2)	3	
SUBTOTAL	3		SUBTOTAL	3	

JUNIOR FALL			JUNIOR SPRING		
ENGR 3510	3	Prereq: ENGR 2130, MATH 3120	ENGR 3970	3	Prereq: Jr. standing
ENGR 3560	3	Prereq: ENGR 1210, ENGR 2110, MATH 1920	ENGR 3530	3	Prereq: ENGR 3510
ENGR 3550	3	Prereq: ENGR 2120, MATH 3110	ENGR 3590	3	Prereq: ENGR 2120, CSCI 1170
ENGR 3915	3	Jr./Sr. standing	MATH elective	3	
ENGR 3520	3	Prereq: ENGR 2130, CSCI 1170	ENGR 4501	3	Prereq: POD
SUBTOTAL	15		SUBTOTAL	15	

JUNIOR SUMMER					
COMM 2200 (Comm)	3		HIST 2010, 2020, 2030, 2040, or 2050	3	
SUBTOTAL	3		SUBTOTAL	3	

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: See catalog	ENGR 4520	3	Prereq: ENGR 3510
ENGR 4580	3	Prereq: ENGR 3550, ENGR 3590	HIST 2010, 2020, 2030, 2040, or 2050	3	
Hum/FA (Rubric 2)	3				
SUBTOTAL	13		SUBTOTAL	12	

TOTAL HOURS IN PROGRAM: 128