2020–21 Physics–Physics Teaching Academic Map

Department of Physics and Astronomy

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.*

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**
ENGL 1010 (Comm)	3		ENGL 1020 (Comm)	3	Prereq: ENGL 1010 with C- or better
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	Prereq: High School chemistry	CHEM 1120/1121	4	Prereq: CHEM 1110 with C- or better
PHYS 2010/2011 or PHYS 2110/2111	4	Consult with advisor	PHYS 2020/2021 or PHYS 2120/2121	4	Consult with advisor
PHYS 1010	1		MSE 2010	0–1	Sec. Ed. minor
MSE 1010	0–1	Sec. Ed. minor			
SUBTOTAL	**16–17**		**SUBTOTAL**	**15–16**	
SOPHOMORE FALL			**SOPHOMORE SPRING**		
YOED 3520 (or elective)	3	Sec. Ed. minor	ASTR 1030	3	
MATH 3120 or PHYS 3150	3	Consult with advisor	MATH 2050	3	Prereq: MATH 1910
ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	Prereq: ENGL 1010, ENGL 1020	PHYS 3110 (or PHYS 3080)	3	Consult with advisor
PHYS 3100 (OR PHYS 3070)	3	Consult with advisor	PHYS 3111	1	Prereq: PHYS 3100 or 3070
COMM 2200 (Comm)	3		HIST 2010, HIST 2020, or HIST 2030	3	
PHYS 3900	1	Prereq: PHYS 3110 or 3080	PHIL 3120 (or elective)	3	Sec. Ed. minor
SUBTOTAL	**16**		**SUBTOTAL**	**16**	
JUNIOR FALL			**JUNIOR SPRING**		
BIOL 1110/1111 (Nat Sci)	4		PHYS 3800	1	Prereq: PHYS 3110 or 3080
PHYS 3950	1	Prereq: PHYS 2021 or 2121; MATH 1920	PHYS 4850	2	Prereq: Consent of instructor
YOED 3550 (or elective)	3	Sec. Ed. minor	PHYS 3930	3	Prereq: PHYS 3950
Soc/Beh Sci (Rubric 1)	3		HIST 2010, HIST 2020, or HIST 2030	3	
PHYS 3610 (or PHYS 3510 OR PHYS 3400)	3	Consult with advisor	Hum/FA (Rubric 1)	3	
Soc/Beh Sci (Rubric 2)	3		PHYS 3960	1	Prereq: PHYS 3950
SUBTOTAL	**17**		**SUBTOTAL**	**13**	
SENIOR FALL			**SENIOR SPRING**		
PHYS 4900	2	Prereq: PHYS 4850 or 4860	YOED 4400 (or elective)	12	Sec. Ed. minor
YOED 4040 (or elective)	4	Sec. Ed. minor			
PHYS 4740 (or elective)	3	Sec. Ed. minor			
Hum/FA (Rubric 2)	3				
YOED 4050 (or elective)	3	Sec. Ed. minor			
SUBTOTAL	**15**		**SUBTOTAL**	**12**	

NOTE: *The minimum number of hours for graduation is 120; however, the number of hours required for this program may exceed 120 if students choose the Secondary Education minor in addition to the Physics Teaching concentration.*

TOTAL HOURS IN PROGRAM: 120

Physics–Physics Teaching 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**
ENGL 1010 (Comm)	3		COMM 2200 (Comm)	3	
MATH 1910 (Math)	4	Take MATH 1730 first if weak background in Math; may take MATH 1910 with acceptable Math ACT score (26).	ENGL 1020 (Comm)	3	Prereq: ENGL 1010 with C- or better
PHYS 1010	1		CHEM 1120/1121	4	Prereq: CHEM 1110 with C- or better
CHEM 1110/1111 (Nat Sci)	4	Prereq: High School chemistry	PHYS 2020/2021 or PHYS 2120/2121	4	Consult with advisor
PHYS 2010/2011 or PHYS 2110/2111	4	Consult with advisor	MSE 2010	0–1	Sec. Ed. minor
MSE 1010	0–1	Sec. Ed. minor			
SUBTOTAL	**16–17**		**SUBTOTAL**	**14–15**	
FRESHMAN SUMMER					
Hum/FA (Rubric 1)	3		MATH 1920	4	Prereq: MATH 1910 with C or better
SUBTOTAL	**3**		**SUBTOTAL**	**4**	
SOPHOMORE FALL			**SOPHOMORE SPRING**		
YOED 3520 (or elective)	3	Sec. Ed. minor	ASTR 1030	3	
MATH 3120 or PHYS 3150	3	Consult with advisor	MATH 2050	3	Prereq: MATH 1910
ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	Prereq: ENGL 1010, ENGL 1020	PHYS 3110 (OR PHYS 3080)	3	Consult with advisor
PHYS 3100 (OR PHYS 3070)	3	Consult with advisor	PHYS 3111	1	Prereq: PHYS 3100 or 3070
PHYS 3900	1	Prereq: PHYS 3110 or 3080	PHIL 3120 (or elective)	3	Sec. Ed. minor
SUBTOTAL	**13**		**SUBTOTAL**	**13**	
SOPHOMORE SUMMER					
Soc/Beh Sci (Rubric 1)	3		HIST 2010, HIST 2020, or HIST 2030	3	
SUBTOTAL	**3**		**SUBTOTAL**	**3**	
JUNIOR FALL			**JUNIOR SPRING**		
BIOL 1110/1111 (Nat Sci)	4		PHYS 3800	1	Prereq: PHYS 3110 or 3080
PHYS 3950	1	Prereq: PHYS 2021, 2121; MATH 1920	PHYS 4850	2	Prereq: Consent of instructor
YOED 3550 (or elective)	3	Sec. Ed. minor	PHYS 3930	3	Prereq: PHYS 3950
Soc/Beh Sci (Rubric 2)	3		HIST 2010, HIST 2020, or HIST 2030	3	
PHYS 3610 (or PHYS 3510 OR PHYS 3400)	3	Consult with advisor	Hum/FA (Rubric 2)	3	
			PHYS 3960	1	Prereq: PHYS 3950
SUBTOTAL	**14**		**SUBTOTAL**	**13**	
SENIOR FALL			**SENIOR SPRING**		
PHYS 4900	2	Prereq: PHYS 4850 or 4860	YOED 4400 (or elective)	12	Sec. Ed. minor
YOED 4040 (or elective)	4	Sec. Ed. minor			
PHYS 4740 (or elective)	3	Sec. Ed. minor			
YOED 4050 (or elective)	3	Sec. Ed. minor			
SUBTOTAL	**12**		**SUBTOTAL**	**12**	

NOTE: *The minimum number of hours for graduation is 120; however, the number of hours required for this program may exceed 120 if students choose the Secondary Education minor in addition to the Physics Teaching concentration.*

TOTAL HOURS IN PROGRAM: 120