

# 2021–22 Physics–Applied Physics 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](http://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
PHYS 1010	1		PHYS 2020/2021 or PHYS 2120/2121 (Nat Sci)	4	Consult with advisor
Nat Sci	4	PHYS 2010/2011 or PHYS 2110/2111 recommended; consult with advisor	MATH 1920	4	Prereq: MATH 1910 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).	CHEM 1120/1121	4	Prereq: CHEM 1110 with C- or better
CHEM 1110/CHEM 1111 (Nat Sci)	4	Prereq: High School chemistry	ENGL 1020 (Comm)	3	Prereq: ENGL 1010 with C- or better
ENGL 1010 (Comm)	3				
<b>SUBTOTAL</b>	<b>16</b>		<b>SUBTOTAL</b>	<b>15</b>	
SOPHOMORE FALL			SOPHOMORE SPRING		
PHYS 3100 (or PHYS 3070)	3	Consult with advisor	PHYS 3110 (or PHYS 3080)	3	Consult with advisor
PHYS 3150 (or MATH 3120 or MATH 3110)	3–4	Consult with advisor	PHYS 3111	1	Prereq: PHYS 3100 or PHYS 3070
CSCI 1170	4	Prereq: MATH 1730 with C or higher	PHYS 3900	1	Prereq: PHYS 3110
COMM 2200 (Comm)	3		ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	Prereq: ENGL 1010, ENGL 1020
Elective	3	Consult with advisor	HIST 2010, 2020, 2030, 2040, or 2050	3	
			Soc/Beh Sci (Rubric 1)	3	
<b>SUBTOTAL</b>	<b>16–17</b>		<b>SUBTOTAL</b>	<b>14</b>	
JUNIOR FALL			JUNIOR SPRING		
PHYS 3610 (or PHYS 3510 or PHYS 3400)	3	Consult with advisor	Cognate	3	
PHYS/ASTR upper division	3–4		Cognate	3	
Hum/FA (Rubric 1)	3		Soc/Beh Sci (Rubric 2)	3	
HIST 2010, 2020, 2030, 2040, or 2050	3		Hum/FA (Rubric 2)	3	
Elective	3		Elective	3	
			PHYS 3800	1	Prereq: PHYS 3110
<b>SUBTOTAL</b>	<b>15–16</b>		<b>SUBTOTAL</b>	<b>16</b>	
SENIOR FALL			SENIOR SPRING		
PHYS 4850	2	Prereq: Instructor consent	PHYS 4900	2	Prereq: PHYS 4850 or PHYS 4860
PHYS/ASTR upper division	2–3		Cognate	3	
Cognate	3		Elective	3	
Cognate	3		Elective	3	
Elective	3	Consult with advisor	Elective	3	
<b>SUBTOTAL</b>	<b>13–14</b>		<b>SUBTOTAL</b>	<b>14</b>	
<b>TOTAL HOURS IN PROGRAM: 120</b>					

# Physics–Applied Physics Suggested Fall/Spring/Summer Four-Year Schedule

Refer to [www.mtsu.edu/financial-aid/scholarships](http://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
PHYS 1010	1		PHYS 2020/2021 or PHYS 2120/2121 (Nat Sci)	4	Consult with advisor
Nat Sci	4	PHYS 2010/2011 or PHYS 2110/2111 recommended; consult with advisor	MATH 1920	4	Prereq: MATH 1910 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).	CHEM 1120/1121	4	Prereq: CHEM 1110 with C- or better
CHEM 1110/1111 (Nat Sci)	4	Prereq: High School chemistry			
ENGL 1010 (Comm)	3				
<b>SUBTOTAL</b>	<b>16</b>		<b>SUBTOTAL</b>	<b>12</b>	
FRESHMAN SUMMER					
COMM 2200 (Comm)	3		ENGL 1020 (Comm)	3	Prereq: ENGL 1010 with C- or better
<b>SUBTOTAL</b>	<b>3</b>		<b>SUBTOTAL</b>	<b>3</b>	
SOPHOMORE FALL			SOPHOMORE SPRING		
PHYS 3100 (or PHYS 3070)	3	Consult with advisor	PHYS 3110 (or PHYS 3080)	3	Consult with advisor
PHYS 3150 (or MATH 3120 or MATH 3110)	3	Consult with advisor	PHYS 3111	1	Prereq: PHYS 3100 or PHYS 3070
Elective	3	Consult with advisor	CSCI 1170	4	Prereq: MATH 1730 with C- or higher
Elective	3	Consult with advisor	Soc/Beh Sci (Rubric 1)	3	
			ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	Prereq: ENGL 1010, ENGL 1020
<b>SUBTOTAL</b>	<b>12</b>		<b>SUBTOTAL</b>	<b>14</b>	
SOPHOMORE SUMMER					
Soc/Beh Sci (Rubric 2)	3		Hum/FA (Rubric 1)	3	
<b>SUBTOTAL</b>	<b>3</b>		<b>SUBTOTAL</b>	<b>3</b>	
JUNIOR FALL			JUNIOR SPRING		
PHYS 3610 (or PHYS 3510 or PHYS 3400)	3	Consult with advisor	Cognate	3	
PHYS/ASTR upper division	2–3		Cognate	3	
Elective	3	Consult with advisor	Hum/FA (Rubric 2)	3	
Elective	3	Consult with advisor	Elective	3	
HIST 2010, 2020, 2030, 2040, or 2050	3		PHYS 3800	1	Prereq: PHYS 3110
<b>SUBTOTAL</b>	<b>14–15</b>		<b>SUBTOTAL</b>	<b>13</b>	
SENIOR FALL			SENIOR SPRING		
PHYS 4850	2	Prereq: Instructor consent	PHYS 4900	2	Prereq: PHYS 4850 or PHYS 4860
PHYS/ASTR upper division	3		HIST 2010, 2020, 2030, 2040, or 2050	3	
Cognate	3		Cognate	3	
Cognate	3		Elective	3	
PHYS 3900	1	Prereq: PHYS 3110	Elective	3	
<b>SUBTOTAL</b>	<b>12</b>		<b>SUBTOTAL</b>	<b>14</b>	
TOTAL HOURS IN PROGRAM: 120					