

# 2023–24 Physics–Astronomy 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
ENGL 1010 (Comm)	3		ENGL 1020 (Comm)	3	Prereq: ENGL 1010 with C-
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 (Nat Sci)	4	required for major	PHYS 2020/2021 or PHYS 2120/2121	4	Consult with advisor
PHYS 1010	1				
<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	ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	Prereq: ENGL 1010, ENGL 1020
PHYS 3150 (OR MATH 3120)	3	Consult with advisor	PHYS 3110 (OR PHYS 3080)	3	Consult with advisor
COMM 2200 (Comm)	3		PHYS 3111	1	Prereq: PHYS 3100 or PHYS 3070
Elective	3	Consult with advisor	CSCI 1170	4	Prereq: MATH 1730 with C or better
Elective	3	Consult with advisor	ASTR 2030 (OR ASTR 2040)	3	Consult with advisor
<b>SUBTOTAL</b>	<b>15</b>		<b>SUBTOTAL</b>	<b>14</b>	
JUNIOR FALL			JUNIOR SPRING		
ASTR 3400 (OR elective)	3	Consult with advisor	ASTR 2040 (OR ASTR 2030)	3	Consult with advisor
PHYS 3610 (OR PHYS 3510 OR PHYS 3400)	3	Consult with advisor	PHYS 3800	1	Prereq: PHYS 3110
Hum/FA (Rubric 1)	3		Hum/FA (Rubric 2)	3	
Soc/Beh Sci (Rubric 1)	3		Soc/Beh Sci (Rubric 2)	3	
Elective	3	Consult with advisor	Elective	3	Consult with advisor
ASTR 1031 (OR ASTR 3401)	1	Consult with advisor	Elective	3	Consult with advisor
<b>SUBTOTAL</b>	<b>16</b>		<b>SUBTOTAL</b>	<b>16</b>	
SENIOR FALL			SENIOR SPRING		
ASTR 3401 (OR ASTR 1031)	1	Consult with advisor	PHYS 3900	1	Prereq: PHYS 3110 or PHYS 3080
ASTR 4850	2	Prereq: Consent of instructor	ASTR 4900	2	Prereq: ASTR 4850
HIST 2010, 2020, 2030, 2040, or 2050	3		HIST 2010, 2020, 2030, 2040, or 2050	3	
Elective (OR ASTR 3400)	3	Consult with advisor	Elective	3	Consult with advisor
Elective	3	Consult with advisor	Elective	3	Consult with advisor
Elective	2	Consult with advisor	Elective	2	Consult with advisor
<b>SUBTOTAL</b>	<b>14</b>		<b>SUBTOTAL</b>	<b>14</b>	
<b>TOTAL HOURS IN PROGRAM: 120</b>					

# Physics–Astronomy 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
ENGL 1010 (Comm)	3		ENGL 1020 (Comm)	3	Prereq: ENGL 1010 with C-
CHEM 1110/1111 (Nat Sci)	4	Prereq: High School chemistry	COMM 2200 (Comm)	3	
PHYS 2010/2011 or PHYS 2110/2111 (Nat Sci)	4	required for major	CHEM 1120/1121	4	Prereq: CHEM 1110 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).	PHYS 2020/2021 or PHYS 2120/2121	4	Consult with advisor
PHYS 1010	1				
<b>SUBTOTAL</b>	<b>16</b>		<b>SUBTOTAL</b>	<b>14</b>	
FRESHMAN SUMMER					
ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	Prereq: ENGL 1010, ENGL 1020	MATH 1920	4	Prereq: MATH 1910 with C or better
<b>SUBTOTAL</b>	<b>3</b>		<b>SUBTOTAL</b>	<b>4</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)	3		PHYS 3111	1	Prereq: PHYS 3100 or PHYS 3070
Elective	3	Consult with advisor	CSCI 1170	4	Prereq: MATH 1730 with C or better
Elective	2	Consult with advisor	ASTR 2030 (OR ASTR 2040)	3	Consult with advisor
Soc/Beh Sci (Rubric 1)	3		Hum/FA (Rubric 1)	3	
<b>SUBTOTAL</b>	<b>14</b>		<b>SUBTOTAL</b>	<b>14</b>	
JUNIOR FALL			JUNIOR SPRING		
ASTR 3400 (OR elective)	3	Consult with advisor	ASTR 2040 (OR ASTR 2030)	3	Consult with advisor
PHYS 3610 (OR PHYS 3510 OR PHYS 3400)	3	Consult with advisor	PHYS 3800	1	Prereq: PHYS 3110
Hum/FA (Rubric 2)	3		Soc/Beh Sci (Rubric 2)	3	
Elective	3	Consult with advisor	Elective	3	Consult with advisor
ASTR 1031 (OR ASTR 3401)	1	Consult with advisor	Elective	2	Consult with advisor
<b>SUBTOTAL</b>	<b>13</b>		<b>SUBTOTAL</b>	<b>12</b>	
JUNIOR SUMMER					
HIST 2010, 2020, 2030, 2040, or 2050	3		HIST 2010, 2020, 2030, 2040, or 2050	3	
<b>SUBTOTAL</b>	<b>3</b>		<b>SUBTOTAL</b>	<b>3</b>	
SENIOR FALL			SENIOR SPRING		
ASTR 3401 (OR ASTR 1031)	1	Consult with advisor	PHYS 3900	1	Prereq: PHYS 3110 or PHYS 3080
ASTR 4850	2	Prereq: Consent of instructor	ASTR 4900	2	Prereq: ASTR 4850
Elective (OR ASTR 3400)	3	Consult with advisor	Elective	3	Consult with advisor
Elective	3	Consult with advisor	Elective	3	Consult with advisor
Elective	3	Consult with advisor	Elective	3	Consult with advisor
<b>SUBTOTAL</b>	<b>12</b>		<b>SUBTOTAL</b>	<b>12</b>	
TOTAL HOURS IN PROGRAM: 120					