

# 2024–25 Physics–Quantum Science and Computing Concentration Academic Map

Department of Physics and Astronomy • MTSU • 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.*

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## Suggested Fall/Spring Four-Year Schedule

FRESHMAN FALL			FRESHMAN SPRING		
Course	Hours	Milestones/Notes	Course	Hours	Milestones/Notes
Written Communication	3	TBC	Information Literacy	3	TBC
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; Prereq: High School chemistry and MATH ACT of 19 or MATH 1710 with C or CHEM 1010 with C	CHEM 1120/1121	4	Prereq: CHEM 1110 with C- or better
PHYS 2010/2011 or PHYS 2110/2111	4	TBC; 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	3	Prereq: PHYS 2021 or 2121; MATH 1920 with C or better	PHYS 3110	3	Prereq: PHYS 3100
PHYS 2270	2		PHYS 3111	1	Prereq: PHYS 3100
Scientific Literacy/Elective	4	MATH 3110 rec.	PHYS 3370	3	
Non-Written Communication	3	TBC	Scientific Literacy/Elective	4	MATH 3120 rec.
Minor course	3		Creativity and Cultural Expression Literature	3	TBC
<b>SUBTOTAL</b>	<b>15</b>		<b>SUBTOTAL</b>	<b>14</b>	
JUNIOR FALL			JUNIOR SPRING		
PHYS 3610 or 3400	3		PHYS 3200	2	Prereq: PHYS 2021 or 2121; MATH 1920 with C or better
PHYS 4380	3	Prereq: PHYS 3110 and 3160 of PHYS 3110 and MATH 3110 and 3120	PHYS 3800	1	Prereq: PHYS 3100
Creativity and Cultural Expression	3	TBC; one must come from Discovery	Creativity and Cultural Expression	3	TBC; one must come from Discovery
Human Society and Social Relationships	3	TBC; one must come from Discovery	Human Society and Social Relationships	3	TBC; one must come from Discovery
CSCI 1170	4	Prereq: MATH 1730 or 1810 with C or better	Minor course	3	Consult with advisor
			Minor course	3	
<b>SUBTOTAL</b>	<b>16</b>		<b>SUBTOTAL</b>	<b>15</b>	
SENIOR FALL			SENIOR SPRING		
PHYS UD Elective	3	PHYS 3610 odd yr.	PHYS 3900	1	Prereq: PHYS 3110
Minor course	3		Minor course/Elective	3	
ASTR/PHYS 4850	2	Prereq: Consent of instructor	ASTR/PHYS 4900	2	Prereq: PHYS 4850
History and Civic Learning	3	TBC; one must come from Discovery	History and Civic Learning	3	TBC; one must come from Discovery
Minor course	3	Consult with advisor	Quantitative Literacy/Elective	3	Consult with advisor
		Consult with advisor	Elective	3	
<b>SUBTOTAL</b>	<b>14</b>		<b>SUBTOTAL</b>	<b>15</b>	
<b>TOTAL HOURS IN PROGRAM: 120</b>					

# Physics–Quantum Science and Computing

## 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](http://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
Written Communication	3	TBC	Information Literacy	3	TBC
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; Prereq: High School chemistry and MATH ACT of 19 or MATH 1710 with C or CHEM 1010 with C	CHEM 1120/1121	4	Prereq: CHEM 1110 with C- or better
PHYS 2010/2011 or PHYS 2110/2111	4	TBC; 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	3	Prereq: PHYS 2021 or 2121; MATH 1920 with C or better	PHYS 3110	3	Prereq: PHYS 3100
PHYS 2270	2		PHYS 3111	1	Prereq: PHYS 3100
Scientific Literacy/Elective	4	MATH 3110 rec.	PHYS 3370	3	
Minor course	3		Scientific Literacy/Elective	4	MATH 3120 rec.
			Creativity and Cultural Expression Literature	3	TBC
<b>SUBTOTAL</b>	<b>12</b>		<b>SUBTOTAL</b>	<b>14</b>	
SOPHOMORE SUMMER					
Non-Written Communication	3	TBC	Human Society and Social Relationships	3	TBC; one must come from Discovery
<b>SUBTOTAL</b>	<b>3</b>		<b>SUBTOTAL</b>	<b>3</b>	
JUNIOR FALL			JUNIOR SPRING		
PHYS 3610 or 3400	3		PHYS 3200	2	Prereq: PHYS 2021 or 2121; MATH 1920 with C or better
PHYS 4380	3	Prereq: PHYS 3110 and 3160 of PHYS 3110 and MATH 3110 and 3120	PHYS 3800	1	Prereq: PHYS 3100
Creativity and Cultural Expression	3	TBC; one must come from Discovery	Creativity and Cultural Expression	3	TBC; one must come from Discovery
Human Society and Social Relationships	3	TBC; one must come from Discovery	Minor course	3	Consult with advisor
CSCI 1170	4	Prereq: MATH 1730 or 1810 with C or better	Minor course	3	
<b>SUBTOTAL</b>	<b>16</b>		<b>SUBTOTAL</b>	<b>12</b>	
SENIOR FALL			SENIOR SPRING		
PHYS UD Elective	3	PHYS 3610 odd yr.	PHYS 3900	1	Prereq: PHYS 3110
Minor course	3		Minor course/Elective	3	
ASTR/PHYS 4850	2	Prereq: Consent of instructor	ASTR/PHYS 4900	2	Prereq: PHYS 4850
History and Civic Learning	3	TBC; one must come from Discovery	History and Civic Learning	3	TBC; one must come from Discovery
Minor course	3	Consult with advisor	Quantitative Literacy/Elective	3	Consult with advisor
		Consult with advisor	Elective	3	
<b>SUBTOTAL</b>	<b>14</b>		<b>SUBTOTAL</b>	<b>15</b>	
<b>TOTAL HOURS IN PROGRAM: 120</b>					