

2016–17 Physics–Professional 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) 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 | | CHEM 1120/1121 | 4 | Prereq: CHEM 1110 with C- or better |
| PHYS 2010/2011 or PHYS 2110/2111 (Nat Sci) | 4 | Consult with advisor | PHYS 2020/2021 or PHYS 2120/2121 | 4 | Consult with advisor |
| PHYS 1010 | 1 | | | | |
| SUBTOTAL | 16 | | SUBTOTAL | 15 | |
| 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 3150 | 3 | Prereq: PHYS 2021 or 2121; MATH 1920 with C or better | PHYS 3111 | 1 | Prereq: PHYS 3100 |
| Elective | 4 | MATH 3110 rec. | PHYS 3160 | 3 | Prereq: PHYS 3150 |
| COMM 2200 (Comm) | 3 | | Elective | 3 | MATH 3120 rec. |
| | | | ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA) | 3 | |
| SUBTOTAL | 13 | | SUBTOTAL | 13 | |
| JUNIOR FALL | | | JUNIOR SPRING | | |
| PHYS 3610* (offered every other yr.) | 3 | PHYS 3300 odd yr. | PHYS 3200* (offered every other yr.) | 2 | PHYS 4330 odd yr.; |
| PHYS 4380* (offered every other yr.) | 3 | PHYS 4310 odd yr.; | PHYS 3900 | 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 | Electives | 6 | Consult with advisor |
| | | | Elective | 0–3 | Not needed if started fall of odd yr. |
| SUBTOTAL | 15 | | SUBTOTAL | 15–18 | |
| SENIOR FALL | | | SENIOR SPRING | | |
| PHYS 3300* (offered every other yr.) | 3 | PHYS 3610 odd yr. | PHYS 3800 | 1 | Prereq: PHYS 3110 |
| PHYS 4310* (offered every other yr.) | 3 | PHYS 4380 odd yr. | PHYS 4330* (offered every other yr.) | 3 | PHYS 3200 odd yr. |
| PHYS 4850 | 2 | Prereq: Consent of instructor | PHYS 4900 | 2 | Prereq: PHYS 4850 |
| HIST 2010, HIST 2020, or HIST 2030 | 3 | | HIST 2010, HIST 2020, or HIST 2030 | 3 | |
| Elective | 3 | Consult with advisor | Electives | 6 | Consult with advisor |
| Elective | 3 | Consult with advisor | Elective | 0–3 | Needed if started odd yr. |
| SUBTOTAL | 17 | | SUBTOTAL | 15–18 | |
| *NOTE: If degree was started in fall of ODD year, use alternate course listed. | | | | | |
| TOTAL HOURS IN PROGRAM: 120 | | | | | |

Physics–Professional Physics

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 | | ENGL 1020 (Comm) | 3 | Prereq: ENGL 1010 with C- or better |
| CHEM 1110/1111 (Nat Sci) | 4 | | CHEM 1120/1121 | 4 | Prereq: CHEM 1110 with C- or better |
| PHYS 2010/2011 or PHYS 2110/2111 (Nat Sci) | 4 | Consult with advisor | PHYS 2020/2021 or PHYS 2120/2121 | 4 | Consult with advisor |
| 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 |
| PHYS 1010 | 1 | | | | |
| SUBTOTAL | 16 | | SUBTOTAL | 15 | |
| FRESHMAN SUMMER | | | | | |
| HIST 2010, HIST 2020, or HIST 2030 | 3 | | Hum/FA (Rubric 1) | 3 | |
| SUBTOTAL | 3 | | SUBTOTAL | 3 | |
| 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 3150 | 3 | Prereq: PHYS 2021 or 2121; MATH 1920 with C or better | PHYS 3111 | 1 | Prereq: PHYS 3100 |
| Elective | 4 | MATH 3110 rec. | PHYS 3160 | 3 | Prereq: PHYS 3150 |
| COMM 2200 (Comm) | 3 | | Elective | 3 | MATH 3120 rec. |
| | | | ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA) | 3 | |
| SUBTOTAL | 13 | | SUBTOTAL | 13 | |
| SOPHOMORE SUMMER | | | | | |
| HIST 2010, HIST 2020, or HIST 2030 | 3 | | Soc/Beh Sci (Rubric 1) | 3 | |
| SUBTOTAL | 3 | | SUBTOTAL | 3 | |
| JUNIOR FALL | | | JUNIOR SPRING | | |
| PHYS 3610* (offered every other yr.) | 3 | PHYS 3300 odd yr. | PHYS 3200* (offered every other yr.) | 2 | PHYS 4330 odd yr. |
| PHYS 4380* (offered every other yr.) | 3 | PHYS 4310 odd yr. | PHYS 3900 | 1 | Prereq: PHYS 3110 |
| Soc/Beh Sci (Rubric 2) | 3 | | Hum/FA (Rubric 2) | 3 | |
| Elective | 3 | Consult with advisor | Elective | 3 | Consult with advisor |
| | | | Elective | 3 | Consult with advisor |
| | | | Elective | 3 | Consult with advisor |
| | | | Elective* | 0–3 | Not needed if started fall of odd yr. |
| SUBTOTAL | 12 | | SUBTOTAL | 15–18 | |
| SENIOR FALL | | | SENIOR SPRING | | |
| PHYS 3300* (offered every other yr.) | 3 | PHYS 3610 odd yr. | PHYS 3800 | 1 | Prereq: PHYS 3110 |
| PHYS 4310* (offered every other yr.) | 3 | PHYS 4380 odd yr. | PHYS 4330* (offered every other yr.) | 3 | PHYS 3200 odd yr. |
| PHYS 4850 | 3 | Prereq: Consent of instructor | PHYS 4900 | 2 | Prereq: PHYS 4850 |
| Elective | 3 | Consult with advisor | Elective | 3 | Consult with advisor |
| | | | Elective | 3 | Consult with advisor |
| | | | Elective* | 0–3 | Needed if started odd yr. |
| SUBTOTAL | 12 | | SUBTOTAL | 12–15 | |

*NOTE: If degree was started in fall of ODD year, use alternate course listed.

TOTAL HOURS IN PROGRAM: 120