PHYSICS - BS, PHYSICS AND MATHEMATICS TEACHING TRACK

Program Requirements

ARSC 201 Experiences In Secondary Math and Science Classrooms ENGL 103 Introduction to Rhetoric and Composition or ENGL 104 or Composition and Rhetoric MATH 171 Calculus I 1 4 PHYS 101 Freshman Physics Orientation 1 1 PHYS 150 Introduction for Programming for Physics 1 3 American history (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/#american-history) 2 Semester Credit Hours 15 Spring ASTR 102 Observational Astronomy 1 1 4 PHYS 206 Newtonian Mechanics for Engineering and 4 8 PHYS 226 Science and Physics of Motion Laboratory for the Sciences 1 Select one of the following: 3 INST 222 Foundations of Education in a Multicultural Society 3 SOCI 317/ Racial and Ethnic Relations AFST 317 TEFB 273 Introduction to Culture, Community, Society and Schools American history (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/#american-history) 2 Semester Credit Hours 15 Second Year Fall MATH 221 Several Variable Calculus 1 4 MATH 308 Differential Equations 1 3 PHYS 207 Electricity and Magnetism for Engineering 4 8 PHYS 227 and Science and Electricity and Magnetism Laboratory for the Sciences 1 PHYS 221 Optics and Thermal Physics 1 3 Semester Credit Hours 14 PHYS 225 Electronic Circuits and Applications 3 PHYS 309 Modern Physics 1 3 PHYS 301 Theoretical Methods for Physicists I 1 3 PHYS 301 Theoretical Methods for Physicists I 1	First Year Fall		Semester
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PHYS 303 Advanced Mechanics II or Advanced Electricity and Magnetism II PHYS 327 Experimental Physics I 6 2 PHYS 328 Experimental Physics II 6 1 PHYS 412 Quantum Mechanics I 3 RDNG 465 Reading in the Middle and Secondary or RDNG 372 Grades or Reading and Writing across the Middle Grades Curriculum TEFB 322 Teaching and Schooling in Modern Society 3 Semester Credit Hours 15 Fourth Year Fall MATH 467 Modern Geometry or Basic Concepts of Geometry PHYS 408 Thermodynamics and Statistical Mechanics TEFB 324 Teaching Skills II 7 3 Creative arts (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/#creative-arts) 2 Language, philosophy and culture (http://catalog.tamu.edu/ undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) 2 Semester Credit Hours 16 Spring MATH 376 Intermediate Abstract Algebra or MATH 415 or Modern Algebra I POLS 207 State and Local Government 3 STAT 211 Principles of Statistics I or STAT 303 or Statistical Methods TEFB 407 Mathematics in the Middle and Senior or Science in the Middle and Secondary		Semester Credit Hours	15		
or PHYS 305 or Advanced Electricity and Magnetism II PHYS 327 Experimental Physics I 6 2 PHYS 328 Experimental Physics II 6 1 PHYS 412 Quantum Mechanics I 3 RDNG 465 Reading in the Middle and Secondary or RDNG 372 Grades	Spring				
PHYS 327 Experimental Physics I ⁶ 2 PHYS 328 Experimental Physics II ⁶ 1 PHYS 412 Quantum Mechanics I 3 RDNG 465 Reading in the Middle and Secondary or RDNG 372 Grades	PHYS 303	Advanced Mechanics II	3		
PHYS 328 Experimental Physics II 6 PHYS 412 Quantum Mechanics I 3 RDNG 465 Reading in the Middle and Secondary or RDNG 372 Grades or Reading and Writing across the Middle Grades Curriculum TEFB 322 Teaching and Schooling in Modern Society 3 Semester Credit Hours 15 Fourth Year Fall MATH 467 Modern Geometry or MATH 367 or Basic Concepts of Geometry PHYS 408 Thermodynamics and Statistical Mechanics TEFB 324 Teaching Skills II 7 Creative arts (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/#creative-arts) 2 Language, philosophy and culture (http://catalog.tamu.edu/ undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) 2 Semester Credit Hours 16 Spring MATH 376 Intermediate Abstract Algebra or MATH 415 or Modern Algebra I POLS 207 State and Local Government 3 STAT 211 Principles of Statistics I 3 or STAT 303 or Statistical Methods TEFB 407 Mathematics in the Middle and Secondary	or PHYS 305				
PHYS 412 Quantum Mechanics I 3 RDNG 465 Reading in the Middle and Secondary or RDNG 372 Grades or Reading and Writing across the Middle Grades Curriculum TEFB 322 Teaching and Schooling in Modern Society 3 Semester Credit Hours 15 Fourth Year Fall MATH 467 Modern Geometry or MaTH 367 or Basic Concepts of Geometry PHYS 408 Thermodynamics and Statistical Mechanics TEFB 324 Teaching Skills II 7 3 Creative arts (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/#creative-arts) 2 Language, philosophy and culture (http://catalog.tamu.edu/ undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) 2 Semester Credit Hours 16 Spring MATH 376 Intermediate Abstract Algebra or MATH 415 or Modern Algebra I POLS 207 State and Local Government 3 STAT 211 Principles of Statistics I or STAT 303 or Statistical Methods TEFB 407 Mathematics in the Middle and Secondary	PHYS 327	Experimental Physics I ⁶	2		
RDNG 465 Reading in the Middle and Secondary or RDNG 372 Grades or Reading and Writing across the Middle Grades Curriculum TEFB 322 Teaching and Schooling in Modern Society 3 Semester Credit Hours 15 Fourth Year Fall MATH 467 Modern Geometry or Basic Concepts of Geometry PHYS 408 Thermodynamics and Statistical Mechanics TEFB 324 Teaching Skills II 7 3 Creative arts (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/#creative-arts) 2 Language, philosophy and culture (http://catalog.tamu.edu/ undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) 2 Semester Credit Hours 16 Spring MATH 376 Intermediate Abstract Algebra or MATH 415 or Modern Algebra I POLS 207 State and Local Government 3 STAT 211 Principles of Statistics I 3 or STAT 303 or Statistical Methods TEFB 407 Mathematics in the Middle and Secondary	PHYS 328	Experimental Physics II ⁶	1		
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Science or Technical Elective ⁸		3
	Semester Credit Hours	15
	Total Semester Credit Hours	120

A Physics major must complete the foundation courses (ASTR 102, PHYS 101, PHYS 150, PHYS 206/PHYS 226, PHYS 207/PHYS 227, PHYS 221, PHYS 309, PHYS 331, MATH 171, MATH 172, MATH 221, MATH 308) with a grade of C or better and have a 2.0 cumulative GPA before taking non-foundation upper-level physics courses.

Any course in this category from the approved University Core Curriculum (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/) list of courses.

- ³ INST 222 is an approved Social and Behavioral Science, International and Cultural Diversity and Cultural Discourse class.
- Any approved Communication (https://catalog.tamu.edu/ undergraduate/general-information/university-corecurriculum/) course, except PERF 407.
- ⁵ INST 210 is an approved Social and Behavioral Science and Cultural Discourse class.
- ⁶ PHYS 327 is an approved W course. PHYS 328 is an approved C course.
 ⁷ Students must apply, and be admitted, to aggieTEACH Science, before beginning this class. Students are required to have 2.75 overall GPA and a 2.5 GPA in content areas.
- Any upper-division course in geo/life/physical sciences, mathematics/ statistics, or engineering (except 485/491). Note: students seeking secondary certification through this degree must take MATH 403 for this elective.