West Texas A&M University Advising Services Degree Checklist 2014-2015

NAME:	WT ID:	DATE:	

Physics

Department of Mathematics, Chemistry and Physics Classroom Center, Room 420 (806)651-2540

CORE CURRICULUM COURSES: 42 HOURS +	HRS	
Communication (Code 10)		
ENGL 1301 (ENG 101) Introduction to Academic Writing		
and Argumentation	3	
COMM 1315 (SCOM 101, 1315), 1318 (SCOM 103, 1318), or 1321 (SCOM 201, 1321)	3	
Mathematics (Code 20)		
See University Core Requirements below	(3)	
Life and Physical Sciences (Code 30)		
See University Core Requirements below	(6)	
Language, Philosophy and Culture (Code 40)		
ANTH 2351 (201), ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311 (110), 2323, 2372 (210); PHIL 1301 (101), 2374 (204); SPAN 2311* (206), 2312*/** (207), 2313* or SPAN 2315*/** Choose 1	3	
Creative Arts (Code 50)		
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303; MUSI 1306 (MUS 101) or 1208	3	
and 1209* (extra MUSI hour moves to Code 90); or THRE 1310		
(105) Choose 1 American History (Code 60)		
	6	$\overline{}$
HIST 1301 (201), 1302 (202), 2301, 2381 Choose 2	6	
Government/Political Science (Code 70)		
POSC 2305 (101) and 2306 (102)	6	
Social and Behavioral Sciences (Code 80)		
AGBE 2317* (213); COMM 2377 (SCOM 255, 2377); CRIJ 1301 (CJ 105); ECON 2301 (ECO 201), 2302 (ECO 202); PSYC 2301 (PSY 201); SOCI 1301 (201) Choose 1	3	
Component Area Option (Code 90)		
See University Core Requirements below	(6)	
	(-)	
PHYSICS MAJOR REQUIREMENTS: 64-68 HOURS A grade of "C" or better must be earned in all courses requi		major.
		major.
A grade of "C" or better must be earned in all courses requi		major.
A grade of "C" or better must be earned in all courses requirements: 15 HOURS • CORE 20 MATH 1314* (110), 1316* (111), 1324* (115), 2412*[3]	red for	major.
A grade of "C" or better must be earned in all courses requirements: 15 HOURS • CORE 20 MATH 1314* (110), 1316* (111), 1324* (115), 2412*[3] (1348), or 2413*[3] (240) CORE 30	red for	major.
A grade of "C" or better must be earned in all courses requirements: 15 HOURS • CORE 20 MATH 1314* (110), 1316* (111), 1324* (115), 2412*[3] (1348), or 2413*[3] (240) CORE 30 PHYS 2425*[3] (210) Calculus Physics I CORE 30	3	major.
A grade of "C" or better must be earned in all courses requirements: 15 HOURS • CORE 20 MATH 1314* (110), 1316* (111), 1324* (115), 2412*[3] (1348), or 2413*[3] (240) CORE 30 PHYS 2425*[3] (210) Calculus Physics I CORE 30 PHYS 2426*[3] (211) Calculus Physics II CORE 90 ENGL 1302* (ENG 102) or 2311* (270) CORE 90 PHYS 2425L[1], 2426L[1]	3 3	major.
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A grade of "C" or better must be earned in all courses requivalents: 15 HOURS • CORE 20 MATH 1314* (110), 1316* (111), 1324* (115), 2412*[3] (1348), or 2413*[3] (240) CORE 30 PHYS 2425*[3] (210) Calculus Physics I CORE 30 PHYS 2426*[3] (211) Calculus Physics II CORE 90 ENGL 1302* (ENG 102) or 2311* (270) CORE 90 PHYS 2425L[1], 2426L[1] AND	3 3 3 3 3	major.
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A grade of "C" or better must be earned in all courses required in all courses	3 3 3 3 3 3	major.
A grade of "C" or better must be earned in all courses requi UNIVERSITY CORE REQUIREMENTS: 15 HOURS • CORE 20 MATH 1314* (110), 1316* (111), 1324* (115), 2412*[3] (1348), or 2413*[3] (240) CORE 30 PHYS 2425*[3] (210) Calculus Physics I CORE 30 PHYS 2426*[3] (211) Calculus Physics II CORE 90 ENGL 1302* (ENG 102) or 2311* (270) CORE 90 PHYS 2425L[1], 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] PHYSICS REQUIREMENTS: 49-53 HOURS PHYS 3310* (310) Modern Physics I PHYS 3320* (320) Thermodynamics	3 3 3 3 3 3 3	major.
A grade of "C" or better must be earned in all courses required in all courses	3 3 3 3 3 3 3 3	major.

Bachelor of Science Degree BS.PHYSICS (138)

PHYS 4360* Nuclear Physics	3	
PHYS 4340* (440) Mathematical Methods	3	
PHYS 4095* Problems in Physics	1	
PHYS 4103* Seminar in Physics	1	
MATH 1316* (111) Plane Trigonometry OR MATH 2412* (1348) Pre-Calculus (if not taken to satisfy Core 20)	0-4	
MATH 2413* (240) Calculus I	4	
MATH 2414* (241) Calculus II	4	
MATH 3340* (340) Calculus III	3	
MATH 3342* (342) Differential Equations I	3	
CS 1315* Programming Fundamentals OR CS 1337 (1437) Introduction to Object-Oriented Programming	3	
Take six hours from: PHYS 3323 Medical Imaging Physics PHYS 3380* (4380) Astrophysics PHYS 4310* (410) Modern Physics II PHYS 4350* Computational Physics PHYS 4370* Senior Investigations PHYS 4330* (430) Optics Three hours of PHYS 3095 or PHYS 4095 may also be applied toward this six-hour requirement.	6	
BACHELOR OF SCIENCE REQUIREMENTS Covered by requirements for major.	OP	ГІОМ
ELECTIVES At least one hour must be advanced.		
18 HOURS BY ADVISEMENT	18	
GENERAL ELECTIVES ELECTIVES should be in a support field. MATH 3311 and 3321,CHEM 1411, 1412 are recommended.	7-12	
MINIMUM HRS REQUIRED TO COMPLETE DEGREE A NOTE: The core curriculum must total exactly 42 hours: excess	120	

[♦] NOTE: The core curriculum must total **exactly 42 hours**; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.

NOTE: At least 39 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU, and 30 of the final 36 hours counted toward the degree must be earned at WTAMU. A maximum of six semester hours in religion (RELI) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

Note: This is NOT a degree plan. After completing 30 hours, students are encouraged to request an official degree plan in the office of the dean of the College of Agriculture, Science and Engineering, located in the Agriculture and Natural Sciences Building, Room 106 (or call 651-2585). Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.

^{*} Indicates prerequisites—see catalog for more information.

^{**} Or an equivalent course (second year, second semester) in a foreign language.



Physics

Department of Mathematics, Chemistry and Physics Advising Services Bachelor of Science Degree BS.PHYSICS.TPC

651-2540 Degree Plan Total Hours: 120 Major Code: 138 CC 420

	Fall			Spring	
	CORE 10-ENGL 1301	3		CORE 90-ENGL	3
H o			H o	1302 or 2311	
u	CORE 20-MATH 1314	3	u	CORE 20-MATH	3
r			r	1316 or 2412**	
s	CORE 40	3	s	CORE 10-COMM	3
	See Checklist for Options			1315, 1318, or 1321	
13	CORE 60-HIST	3	15	CORE 60-HIST	3
13	1301, 1302, 2301, or 2381		13	1301, 1302, 2301, or 2381	
	CORE 90-IDS 1071*	1		CORE 50-ARTS	3
				See Checklist for Options	
				See Checklist for Options	

	Fall			Spring	
Н	CORE 20-MATH 2413	4	Н	CORE 20-MATH 2414	4
0			0		
u	CORE 90-PHYS 2425	4	u	CORE 90-PHYS 2426	4
r			r		
S	CORE 70-POSC	3	S	CORE 70-POSC	3
	2305 or 2306			2305 or 2306	
18	CORE 80	3	18	CS 1315 OR CS 1337	3
10	See Checklist for Options		10		
	DIRECTED ELEC	4		DIRECTED ELECTIVE	4
	See Checklist for Options			See Checklist for Options	

Third \	Third Year					
	Fall			Spring		
Н	MATH 3340	3	н	MATH 3342	3	
о и	PHYS 3330	3	о и	PHYS 3310	3	
r s	PHYS 3320	3	r s	PHYS 3350	3	
15	ADVISED ELEC See Checklist for Options	6	15	ADVISED ELEC See Checklist for Options	6	

Fourth	Fourth Year						
	Fall	Spring					
н	PHYS 3340	3	н	PHYS 4340	3		
0			0				
u	PHYS 4320	3	u	PHYS 4360	3		
r			r		_		
S	PHYS 4095	1	s	PHYS 4103	1		
13	PHYS ELECTIVE	3	13	PHYS ELECTIVE	3		
13	See Checklist for Options		13	See Checklist for Options			
	ADVISED ELEC	3		ADVISED ELEC	3		
	See Checklist for Options			See Checklist for Options			

DISCLAIMER: This curriculum guide should be used in conjunction with the corresponding degree checklist for general planning purposes only. The degree checklist (later a student's official degree plan) should be referred to as the comprehensive list of all courses required for the degree. An official degree plan is required after completing 45 hours. Students should always seek the advice of their academic adviser before scheduling classes.

Notes:

- * MATH 2412 (1) or MATH 2413 (1) can be substitute for IDS 1071 (1) if these are used to satisfy CORE 20 requirements
- ** MATH 2412 is recommended over MATH 1316 for this degree plan

Eighteen hours of advisement based upon student career interests.