

West Texas A&M University
STARR Center
Degree Checklist
2008-2009

NAME: _____ WT ID: _____ DATE: _____

Physics
Department of Mathematics, Chemistry and Physics
FAB 165 651-2540

CORE CURRICULUM COURSES: 31 HOURS ♦		HRS
Number of hours does not include specific core requirements listed below.		
Communication (10)		
ENGL 1301 (ENG 101); 1302* (ENG 102) or 2311* (ENG 270)	6	
Communication (11)		
SCOM 1315 (101), 1318 (103), or 1321 (201)	3	
Mathematics (20)		
MATH 1314* (110) or 1324* (115)	3	
Natural Sciences (30)		
CHEM 1411*, 1411L (101,101L) Chemistry I	4	
CHEM 1412*, 1412L (102, 102L) Chemistry II	4	
Humanities (40-41)		
ENGL 2321* (NEW), 2326* (NEW), 2331* (NEW), 2341* (NEW), 2343* (NEW); HIST 2311 (110), 2372 (210); MCOM 1307 (MC 107); PHIL 1301 (101), 2374 (204); or SPAN 2312*/I** (207) Choose 1	3	
Visual and Performing Arts (50)		
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303 (NEW); MUSI 1306 (MUS 101) or 1208 and 1209; or THRE 1310 (105) Choose 1	3	
Social and Behavioral Sciences (60)		
HIST 1301 (201), 1302 (202), 2301 Choose 2	6	
Social and Behavioral Sciences (70)		
POSC 2305 (101) or POSC 2370 (NEW); 2306 (102)	6	
Social and Behavioral Sciences (80)		
AGBE 2317 (213), ANTH 2351 (201); CRIJ 1301 (CJ 105); ECON 2301 (ECO 201), 2302 (ECO 202), 2371; GEOG 1302 (202); PSYC 2301 (PSY 201); SCOM 2377 (255); SOCI 1301 (201); or SOCW 2361 (SOWK 201) Choose 1	3	
Institutionally Designated Option (90)		
PHED 1111 (SES 101); PHED/ANSC activity course; DANC 1241 (1070), 2241* (2370); MUEN 1026 Upon written recommendation of the University physician or the coordinator for Student Disability Services, students may substitute a one hour elective course in lieu of physical education course.	1-2	
PHYSICS REQUIREMENTS: 73-74 HOURS Courses required for a degree in Physics.		
UNIVERSITY CORE REQUIREMENTS: 11 HOURS		
CORE 20 MATH 1314* (110) or 1324* (115)	3	
CORE 30 CHEM 1411*, 1411L (101,101L) Chemistry I	4	
CORE 30 CHEM 1412*, 1412L (102, 102L) Chemistry II	4	
PHYSICS REQUIREMENTS: 62-63 HOURS		
PHYS 2425*, 2425L (210) (PHYSICS) Engineering Physics I	4	
PHYS 2426*, 2426L (211) Engineering Physics II	4	
PHYS 2427, 2427L (new) Engineering Physics III	4	
PHYS 3310* (310) Modern Physics I	3	
PHYS 3320* (320) Thermodynamics	3	
PHYS 3330* (330) Mechanics I	3	
PHYS 3340* (340) Electricity and Magnetism I	3	

Bachelor of Science Degree
BS.PHYSICS (118)

PHYS 4320* (420) Quantum Mechanics I	3	
PHYS 4330* (430) Optics	3	
PHYS 4340* (440) Mathematical Methods	3	
Take three courses from: PHYS 3450* (NEW) Advanced Laboratory Techniques PHYS 4310* (410) Modern Physics II PHYS 4350* (NEW) Computational Physics PHYS 4360* (NEW) Nuclear Physics PHYS 4370* (NEW) Solid State Physics PHYS 4380* (NEW) Astrophysical Measurement Techniques	9-10	
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	
IDM 1315 (CIS 204, 1315) Programming Fundamentals	3	
MPS 4370* (NEW) Senior Investigations	3	
BACHELOR OF SCIENCE REQUIREMENTS Covered by requirements for major.		OPTION
ELECTIVES: 15-16 HOURS BY ADVISEMENT		
ELECTIVES MATH 3311 and 4310 are recommended.	15-16	
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	120	

♦ Core curriculum courses should be taken during the first two years of enrollment. For a list of core courses with descriptions see www.wtamu.edu/starr/.
* Indicates prerequisites—see [catalog](#) for more information.
** Or an equivalent course (second year, second semester) in French or German.

Note: This is NOT a degree plan. Upon completion of 60 hours, apply for a 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.