

West Texas A&M University
STARR Center
Degree Checklist
2006-2007

NAME: _____ WT ID: _____ DATE: _____

Physics
Department of Mathematics, Physical Sciences and
Engineering - CC312B 651-2540

CORE CURRICULUM COURSES (42 HOURS)	HRS	
ENGL 1301 (ENG 101) (ENGLISH)	3	
ENGL 1302* (ENG 102) (ENGLISH)	3	
SCOM 1315 (101), 1318 (103), or 1321 (201) (SPEECH COMMUNICATIONS)	3	
MATH 1314* (110) or 1324* (115)	3	
CHEM 1411*, 1411L (101) (CHEMISTRY)	4	
CHEM 1412*, 1412L (102)	4	
ENGL 2332* (ENG 201), 2333* (202), 2371* (203); HIST 2372 (210); PHIL 1301 (101); or SPAN 2312*/** (207) (ENGLISH, HISTORY, PHILOSOPHY, SPANISH) Choose 1	3	
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); MUSI 1306 (MUS 101) or 1208 and 1209; or THRE 1310 (105) (FINE ARTS, ARTS, MUSIC, THEATRE) Choose 1	3	
HIST 1301 (201) (HISTORY)	3	
HIST 1302 (202) (HISTORY)	3	
POSC 2305 (101) (POLITICAL SCIENCE)	3	
POSC 2306 (102) (POLITICAL SCIENCE)	3	
ANTH 2351 (201) ECON 2301 (ECO 201), GEOG 1302 (202), PSYC 2301 (PSY 201), SOCI 1301 (201) (ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, PSYCHOLOGY, SOCIOLOGY) Choose 1	3	
PHED 1111 (SES 101) (PHYSICAL EDUCATION) 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	
PHYSICS REQUIREMENTS (59-60 HOURS)		
PHYS 2425*, 2425L (210) (PHYSICS) Engineering Physics	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	
PHYS 4320* (420) Quantum Mechanics I	3	
PHYS 4330* (430) Optics	3	
PHYS 4340* (440) Mathematical Methods	3	
PHYS 3342 (440) Introduction to Astronomy 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 Choose 3	9-10	
MATH 2413* (240) Calculus I	4	
MATH 2414* (241) Calculus II	4	

Bachelor of Arts/Science Degree
BA.PHYSICS or BS.PHYSICS (118)

MATH 3340* (340) Calculus III	3	
MATH 3342* (342) Differential Equations I	3	
CIS 1315 (204) (COMPUTER INFORMATION SYSTEMS) Programming Fundamentals	3	
RECOMMENDED COURSES (6 HOURS)		
MATH 3311* (411) Linear Algebra	3	
MATH 4310* (310) Modern Algebra	3	
BACHELOR OF ARTS REQUIREMENTS (12 HOURS) OPTION		
Six hours of foreign language.	6-8	
Six hours chosen from art, English, history, modern languages, music, philosophy and theatre.	6	
BACHELOR OF SCIENCE REQUIREMENTS (12 HOURS) OPTION		
Six hours chosen from biology, chemistry, geology, geosciences, mathematics, and physics. (Covered by major)	0	
Six hours chosen from agriculture, anthropology, biology, chemistry, computer information systems, economics, geography, geology, geosciences, history, mass communications, mathematics, physics, political science, psychology, sociology, speech, and sports and exercise sciences. (Covered by major)	0	
ELECTIVES (1-16 HRS BY ADVISEMENT)***		
ELECTIVES		
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	123	

* Indicates prerequisites—see catalog for more information.

** Or an equivalent course (second year, second semester) in French or German.

*** Suggested physics electives: PHYS 3301 (301), 3302 (302), 3342 (390), 4310 (410). At least 36 hours of advanced work (courses at the 3000- or 4000-level) are required to receive a bachelor's degree. At least 30 must be earned in residence at WTAMU.

Revised 5/06
 PHYSICS.BA.BS

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, Nursing, Science and Engineering, located in Old Main, Room 402, or call 651-2585.