

West Texas A&M University
STARR Center
Degree Checklist
2007-2008

NAME: _____ WT ID: _____ DATE: _____

Physics
Department of Mathematics, Chemistry and Physics
CC312B 651-2540

CORE CURRICULUM COURSES (42 HOURS)		HRS
ENGL 1301 (ENG 101) Composition and Reading		3
ENGL 1302* (ENG 102) Composition and Reading		3
SCOM 1315 (101), 1318 (103), or 1321 (201) (SPEECH COMMUNICATION)		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) (HUMANITIES, ART, MUSIC, THEATRE) Choose 1		3
HIST 1301 (201) America, 1492-1877		3
HIST 1302 (202) America Since 1877		3
POSC 2305 (101) American National Government POSC 2370 (NEW) Constitutional American Government Choose 1		3
POSC 2306 (102) American State and Local Government		3
AGBE 2317 (213), ANTH 2351 (201), ECON 2301 (ECO 201), GEOG 1302 (202), PSYC 2301 (PSY 201), SCOM 2377 (255), SOCI 1301 (201) (AGRICULTURAL BUSINESS AND ECONOMICS, ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, PSYCHOLOGY, SPEECH COMMUNICATION, 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 (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
PHYS 4320* (420) Quantum Mechanics I		3
PHYS 4330* (430) Optics		3
PHYS 4340* (440) Mathematical Methods		3
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

Bachelor of Science Degree
BS.PHYSICS (118)

MATH 2414* (241) Calculus II	4	
MATH 3340* (340) Calculus III	3	
MATH 3342* (342) Differential Equations I	3	
CIS 1315 (204) (COMPUTER INFORMATION SYSTEMS) Programming Fundamentals	3	
MPS 4370* (NEW) (MATHEMATICS AND PHYSICAL SCIENCE) Senior Investigations	3	
BACHELOR OF SCIENCE REQUIREMENTS (12 HOURS)		OPTION
Six hours chosen from biology, chemistry, geology, geosciences, mathematics, physics and natural sciences. (Covered by major)	0	
Six hours chosen from agricultural business and economics; agriculture; animal science; anthropology; biology; biotechnology; chemistry; computer information systems; computer science; economics; engineering; engineering technology; environmental science; geography; geology; geosciences; history; integrated pest management; mass communications; mathematics; mathematics and physical science; mechanical engineering; physics; plant, soil and environmental science; political science; psychology; sociology; speech; and sports and exercise sciences. (Covered by major)	0	
ELECTIVES (15-16 HOURS BY ADVISEMENT)		
ELECTIVES MATH 3311 and 4310 are recommended.	15-16	
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	120	

* Indicates prerequisites—see catalog for more information.

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

Revised 3/07
 physics.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, Science and Engineering located in Old Main, Room 402, or call 651-2585.