

College of Basic and Applied Sciences

Upper Division Form 2015-2016

Student name _____ Student # _____

Major **Physics** Minor _____ (Optional)

Concentration **Astronomy** E-mail _____

Instructions: For students graduating in Fall 2015 or later, one (1) copy signed by major and minor advisors should be filed in KUC 322 three semesters prior to graduation. An Intent to Graduate form should be submitted with this form.

General Education Area	Course	Semester	Grade	Notes	Credit Hours
COMMUNICATION (9 hours)	ENGL 1010				3
	ENGL 1020				3
	COMM 2200				3
HISTORY (6 hours) Choose two: HIST 2010, HIST 2020, HIST 2030	HIST _____				3
	HIST _____				3
HUMANITIES AND/OR FINE ARTS (9 hours) Choose <u>one</u> : ENGL 2020, 2030 or HUM 2610. Choose <u>two</u> with different prefixes: ANTH 2210, ART 1030, 1920, DANC 1000, HIST 1010, 1020, 1110, 1120, MUS 1030, PHIL 1030, THEA 1030					3
					3
					3
MATHEMATICS (3 hours) <i>Recommend MATH 1910 (4 credits)</i>	MATH _____				3
NATURAL SCIENCES (8 hours) Recommend CHEM 1110/1111 (4 cr.). and either PHYS 2010/2011 (4 cr.) <u>or</u> PHYS 2110/2111 (4 cr.)					4
					4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two (different rubrics): AAS 2100, ANTH 2010, ECON 2410, EMC/JOUR/RIM 1020, GEOG 2000, GS 2010, HLTH 1530/1531, PS 1010, PS 1005, PSY 1410, RS 2030, SOC 1010, WGST 2100					3
					3
Total:					41

Major Core (included in major GPA)	Course	Semester	Grade	Notes	Credit Hours
Physics Colloquium	PHYS 1010				1
Introductory Physics I <i>PHYS 2010/2011 or PHYS 2110/2111</i>	PHYS _____ PHYS _____				4
Introductory Physics II <i>PHYS 2020/2021 or PHYS 2120/2121</i>	PHYS _____ PHYS _____				4
Modern Physics I <i>PHYS 3100 or PHYS 3070</i>	PHYS _____				3
Modern Physics II <i>PHYS 3110 or PHYS 3080</i>	PHYS _____				3
Modern Physics Lab	PHYS 3111				1
Thermodynamics <i>PHYS 3610 or PHYS 3510</i> or Intermediate Physics <i>PHYS 3400</i>	PHYS _____				3
Physics Seminar	PHYS 3800				1
Physics Practicum	PHYS 3900				1
Research <i>(PHYS or ASTR)</i>	____ 4850				2
Senior Thesis <i>(PHYS or ASTR)</i>	____ 4900				2
Total:					25
Major/concentration requirements are continued on the next page.					

Concentration (included in major GPA)	Course	Semester	Grade	Notes	Credit Hours
Observing the Universe	ASTR 1031				1
Solar System Astronomy	ASTR 2030				3
Stars, Galaxies and Cosmology	ASTR 2040				3
Fundamentals of Astrophysics	ASTR 3400				3
Experimental Astronomy	ASTR 3401				1
36 hours in major GPA					Total: 11

Supporting (excluded from major GPA)	Course	Semester	Grade	Notes	Credit Hours
Calculus I	MATH 1910				4
Calculus II	MATH 1920				4
Differential Equations or Theoretical Physics I	MATH 3120 or PHYS 3150				3
General Chemistry I	CHEM 1110/1111				4
General Chemistry II	CHEM 1120/1121				4
					Total: 19

Note: At least 22 credits of elective hours must be upper division (3000/4000 level).

Minor (Minor is Optional)	Course	Semester	Grade	Notes	Credit Hours
Total:					

Signed:		
	Minor Advisor (if applicable)	Date

1. Degrees require a minimum of 120 semester hours (12 of the last 18 at MTSU) with a 2.0 GPA, a minimum of 42 upper-division hours (30 at MTSU) with a 2.0 GPA, and a minimum of 60 senior college hours.
2. Learning Support courses do not count toward the 120-hour requirement or cumulative degree GPA.

Signed:		
	Physics Advisor	Date

Local Address: _____ Phone: _____

