

College of Basic and Applied Sciences

Upper Division Form 2020-2021

Student name _____ Student # _____

Major **PHYSICS** Minor _____ (Optional)

Concentration **PHYSICS TEACHING** E-mail _____

Instructions: For students graduating in Summer 2020 or later, one (1) copy signed by major and minor advisors should be filed in DSB 120 three (3) semesters prior to graduation. An Intent to Graduate form must be submitted with this form.

General Education Area	Course	Semester	Grade	Prerequisites/Notes	Credit Hours
COMMUNICATION (9 hours)	ENGL 1010			Must earn a grade of C- or better	3
	ENGL 1020			Must earn a grade of C- or better	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 one: ENGL 2020, 2030 or HUM 2610. Choose two different subjects: ANTH 2210, ART 1030, 1920, DANC 1000, HIST 1010, 1020, 1110, 1120, MUS 1030, PHIL 1030, THEA 1030					3
					3
					3
MATHEMATICS (3 hours) Choose one: MATH 1010, 1530, 1630, 1710, 1720, 1730, 1810, 1910				MATH 1910 is required for major	3
NATURAL SCIENCES (8 hours) Choose two different subjects: ASTR 1030/1031, BIOL 1030/1031, BIOL 1110/1111 , BIOL 2010/2011, BIOL 2020/2021, CHEM 1010/1011, CHEM 1030/1031, CHEM 1110/1111 , GEOL 1030/1031, GEOL 1040/1041, PGEO 1030, PHYS 1110, PHYS 2010/2011, PHYS 2110/2111, PSCI 1030/1031, PSCI 1130/1131				CHEM 1110/1111 is required for the major	4
				BIOL 1110/1111 is required for the major	4
SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two different subjects: AAS 2100, ANTH 2010, ECON 2410, ECON 2420, EMC/JOUR/RIM 1020, GEOG 2000, GS 2010, HLTH 1530/1531, PS 1010, PS 1005, PSY 1410, RS 2030, SOC 1010, SOC 2010, WGST 2100					3
					3
Total:					41

Major Core (included in major GPA)	Course	Semester	Grade	Prerequisites/Notes	Credit Hours
Physics Colloquium (Fall only)	PHYS 1010				1
Introductory Physics I <i>PHYS 2010/2011 or PHYS 2110/2111</i> (PHYS 2110/2111 is offered in the Fall only)	PHYS _____ PHYS _____			PHYS 2010/2011: MATH 1710, 1730, 1810 or 1910 each with minimum grade of C (2.0 GPA) PHYS 2110/2111: MATH 1910 with a minimum grade of C	4
Introductory Physics II <i>PHYS 2020/2021 or PHYS 2120/2121</i> (PHYS 2120/2121 is offered in the Spring only)	PHYS _____ PHYS _____			PHYS 2020/2021: PHYS 2011 PHYS 2120/2121: PHYS 2111 with min grade of C and MATH 1920 with a minimum grade of C	4
Modern Physics I <i>PHYS 3100 or PHYS 3070</i> (Fall only)	PHYS _____			PHYS 3100: PHYS 2021 or 2121 with min grade of C and MATH 1920 with a min grade of C PHYS 3070: PHYS 2021 or 2121 and MATH 1920	3
Modern Physics II <i>PHYS 3110 or PHYS 3080</i> (Spring only)	PHYS _____			PHYS 3110: PHYS 3100 PHYS 3080: PHYS 3070 or PHYS 3100	3
Modern Physics Lab (Spring only)	PHYS 3111			PHYS 3100 (or PHYS 3070)	1
Thermodynamics or Intermediate Physics <i>PHYS 3610 or PHYS 3510 or PHYS 3400</i>	PHYS _____			See online catalog for prerequisites; see department schedule for course offerings	3
Physics Seminar (Spring only)	PHYS 3800			PHYS 3110 (or PHYS 3080)	1
Physics Practicum	PHYS 3900			PHYS 3110 (or PHYS 3080) and consent of instructor	1
Research (<i>PHYS or ASTR</i>)	____ 4850			Consent of instructor	2
Senior Thesis (<i>PHYS or ASTR</i>)	____ 4900			PHYS 4850 or PHYS 4860 and consent of department chair	2
Major/concentration requirements are continued on the next page.					

Concentration (included in major GPA)	Course	Semester	Grade	Prerequisites/Notes	Credit Hours
Teaching of Physics (Spring of odd yrs. only)	PHYS 3930			PHYS 3950	3
Physics Licensure I (Fall only)	PHYS 3950			PHYS 2021 or 2121 with C and MATH 1920 with C	1
Physics Licensure II (Spring only)	PHYS 3960			PHYS 3950	1
Exploring the Universe	ASTR 1030				3
33 hours in major GPA				Total:	33

Supporting Courses (excluded from major GPA)					
	Course	Semester	Grade	Prerequisites/Notes	Credit Hours
Calculus I	MATH 1910			Pre-req: MATH 1730 with a C (2.0) or higher, ACT MATH of 26, or Calculus Placement test with satisfactory score; must earn a grade of C (2.0) or higher; credits can count in general education	0-4
Calculus II	MATH 1920			MATH 1910 with a minimum grade of C	4
Probability and Statistics	MATH 2050			MATH 1910	3
Differential Equations or Theoretical Physics I (PHYS 3150 is offered in the Fall only)	MATH 3120 or PHYS 3150			MATH 3120: MATH 1920 with a minimum grade of C PHYS 3150: PHYS 2021 or 2121 with min grade of C and MATH 1920 with a minimum grade of C	3
General Chemistry I	CHEM 1110/1111			High school chemistry; credits can count in general education	0-4
General Chemistry II	CHEM 1120/1121			CHEM 1110/1111 with a minimum grade of C-	4
General Biology I	BIOL 1110/1111			credits can count in general education	0-4
Elective Courses – minimum of 31 credits needed to reach 120 required for graduation; 36 total credits must be earned at 3000/4000 level					
* STUDENTS SEEKING A LICENSE TO TEACH PHYSICS IN SECONDARY SCHOOLS MUST COMPLETE A MINOR IN SECONDARY EDUCATION.					
Total:					46-58

1. Degrees require a minimum of 120 semester hours completed with a cumulative and major GPA of 2.0 or higher. Minimum of 36 upper-division hours (3000/4000 level) and a minimum of 50 senior college hours (earned at four-year University) also required.
2. A minimum of 12 credits must be earned at the 3000/4000 level in each major

Signed:		
	Physics Advisor	Date