

Physics Curriculum

Suggested Curriculum for the Physics Major (124 Credit hours)

Freshman Year

1st Semester				Cr.	2nd Semester				Cr.
ENGL	0101	Eng. Comp ¹		3	ENGL	0102	Eng Comp II ¹		3
HIST	0103	World Civ ²		3	HIST	0104	World Civ. ²		3
PHED		Physical Education		1	PHED	0102	Physical Education		1
OREN	0100	Orientation		1	OREN	0101	Orientation		1
CHEM	0231	Gen Chem. I		4	CHEM	0232	Gen. Chem II		4
CSCI	0229	C++ ³		3	MATH	0207	Calculus I ³		4
Total				15	Total				16

Sophomore Year

1st Semester				Cr.	2nd Semester				Cr.
		Hum/Fine Art Elective ¹		3			Hum/SS Elective ¹		3
		Tech. Elec		3			Tech. Elec		3
MATH	0208	Calculus II		4	MATH	0209	Calculus III		4
PHYS	0310	Gen. Physics I ³		3	PHYS	0311	Gen. Physics II ³		3
PHYS	0313	Gen. Physics Lab I		1	PHYS	0314	Gen. Physics Lab II		1
		Soc./Behav. Sc. Elective ²		3			Soc./Behav.Sc.Elective ²		3
Total				17	Total				17

Junior Year

1st Semester				Cr.	2nd Semester				Cr.
		Tech. Elective		3			Tech. Elective		3
		Tech. Elective		3	PHYS	0330	Electronics (EE 380/380L)		4
PHYS	0320	Mechanics		3	PHYS	0410	Wave Phenomena		3
PHYS	0402	Modern Physics I		3	PHYS	0411	E&M Theory		3
MATH	0307	Differential Equations		3	PHYS	0502	Modern Physics Lab		1
Total				15	Total				14

Senior Year

1st Semester				Cr.	2nd Semester				Cr.
		Tech. Elective		3			Tech. Elective		3
		Tech. Elective		3			Tech. Elective		3
		Tech. Elective		3			Tech. Elective		1
PHYS	0510	Thermodynamics		3	PHYS	0511	Modern Physics II		3
PHYS	0550	Solid State		3	PHYS	0520	Lasers : Applications		3
PHYS	0551	Seminar-I (Research)		1	PHYS	0552	Seminar - II (Research)		1
Total				16	Total				14

Minimum grade of C required +six hours in the same discipline.

Tech. Electives - These are technical courses at the 200-level or above, elected from the areas of Engineering, Natural Science, Physical Science, Computer Science, and Mathematics.

1: Humanities/Fine Arts

2: Social/Behavioural Sciences

3: Natural Sciences/Mathematics

Based on the SAT/ACT results, a student may be required to take Reading 101 and/or Reading 102. Each Reading course yields one hour credit and must be taken during the first year of enrollment. Additionally, a student may be required to take English 100, a 3 credit hour course. A minimum grade of "C" is required in English 100 and each Reading course.