Curriculum effective FS 2022

FRESHMAN YEAR

First Semester	*Credit*
Chem 1310-General Chemistry	4
Chem 1319-General Chemistry	1
Chem 1100-Intro to Lab Safety & Hazardous Materials	1
English 1120-Exposition & Argumentation	3
Math 1214-Calculus w/Analytic Geometry I	4
Physics 1101-Introduction to Physics	1
	14

Second Semester	*Credit*
Chem 1320-General Chemistry	3
Hist (1200, 1300, 1310) or Pol Sc 1200	3
Math 1215-Calculus w/Analytic Geometry II	4
Physics 1135-General Physics I	4
	14

SOPHOMORE YEAR

First Semester	*Credit*
English 1160-Writing & Research	3
Math 2222-Calculus w/Analytic Geometry III	4
Physics 2135-General Physics II	4
Comp Sc 1500 - Computational Problem Solving	3
Literature Elective	3
	17

Second Semester	*Credit*
Math 3304-Elementary Differential Equations	3
Physics 2305-Intro to Modern Physics	3
Physics 2129-Intermediate Physics Lab	3
Physics 2401-Introduction to Theoretical Physics	3
Social Science Elective	3
	15

JUNIOR YEAR

First Semester	*Credit*
Physics 3201-Physical Mechanics	3
Physics 3119-Advanced Physics Lab I	3
Physics Area Focus Course[2]	3
Math/Stat Elective[1]	3
Humanities Elective	3
	15

Second Semester	*Credit*
Physics 3211-Electricity & Magnetism I	3
Physics 3129-Advanced Physics Lab II	3
Math/Stat Elective[1]	3
Social Science Elective	3
Electives	3
	15

SENIOR YEAR

First Semester	*Credit*
Physics 4211-Electricity & Magnetism II	3
Physics 4301-Introduction to Quantum Mechanics	3
Physics Area Focus Course[2]	3
Electives	6
	15

Second Semester	*Credit*
Physics 4311-Thermal Physics	3
Humanities Elective (3000 level)	3
Physics Elective[3] (3000 Level)	3
Electives	6
	15

Note: A minimum of 120 credit hours is required for a Bachelor of Science in physics. No more than two of the required physics and mathematics courses with a grade of "D" may be used to meet graduation requirements.

[1] Six hours of mathematics or statistics beyond MATH 3304 are required. MATH 3108, MATH 5222, MATH 5325, or MATH 5351 are recommended.

[2] Two physics area focus courses are required. Students can pick from PHYSICS 4323, PHYSICS 4553, PHYSICS 4333, and PHYSICS 4343.

[3] In addition to the specific 3000 and 4000 level physics courses listed (PHYSICS 3119, PHYSICS 3129, PHYSICS 3201, PHYSICS 3211, PHYSICS 4211, PHYSICS 4301, PHYSICS 4311), and in addition to the two physics area focus courses[4], one other physics 3000 level or higher course is required.

30 hours of electives are required in addition to the math/stat electives[1], physics area focus courses[2], and physics electives[3].These electives shall include six hours of social studies and nine hours of humanities. At least three of the humanity hours must be literature and at least three must be at the 3000 level or above not including Special Problems courses (PHILOS 4345 recommended). 15 hours of free electives may be used to develop an emphasis area. At least 15 hours of elective credit shall be in courses at the 3000 level or above.