PHYSICS

Bachelor of Science (BS)

At least 120 hours are required for graduation, and students must earn a 2.0 overall GPA, a 2.0 WSU GPA, and a 2.0 GPA in the major. Students must also complete all courses required for Liberal Arts and Sciences General Education.

REQUIREMENTS FOR MAJOR: 55 credit hours
Select one of the following options:

Option A
PHYS 213 General College Physics I (5)
PHYS 214 General College Physics II (5)

or

Option B (preferred)
PHYS 313 Physics for Scientists I (4)
PHYS 315 University Physics Lab I (1)
PHYS 314 Physics for Scientists II (4)
PHYS 316 University Physics Lab II (1)

PHYS 551 Topics in Modern Physics (3)
PHYS 621 Analytical Mechanics (3)
PHYS 631 Electricity and Magnetism (3)
PHYS 641 Thermophysics (3)
PHYS 651 Quantum Mechanics I (3)
MATH 555 Differential Equations I (3)

Select one of the following MATH courses:
MATH 511 Linear Algebra (3)
MATH 545 Integration Techniques and Applications (3)
MATH 547 Advanced Calculus I (3)
MATH 757 Partial Differential Equations for Engineers (3)

Select 10 credit hours of Chemistry:
CHEM __________
CHEM __________

Select 3 semesters from the following:
PHYS 516 Advanced Physics Laboratory (2) (repeatable up to a maximum of 8 credit hours)
PHYS 517 Electronics Laboratory (2)
PHYS 616 Computational Physics Laboratory (2)

8 additional hours of Physics numbered 300 and above (excluding 501 and 502):

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Applied Learning: Students in the BS in physics are required to complete an applied learning or research experience to graduate from the program. The requirement can be met in several ways. Students can take PHYS 516, PHYS 481 or engage in undergraduate research PHYS 600/PHYS 601.

Requirements for Minor: 16 hours
Select either Option A or Option B from above.

At least 6 additional credit hours of Physics courses numbered above 500 excluding 501 and 502:

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