PHYSICS- Nuclear Science Track  Bachelor of Science with a Major in Physics

The nuclear science track provides a flexible program that may be used as preparation to enter the nuclear workforce or for graduate studies in health physics. (Grade of C or better is required in all physics courses)

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| Core Curriculum Areas A-E for Science Majors | 42 | |
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| Core Curriculum Area F | | 18 |
| PHYS 2211,2212 Principles of Physics I,II | 8 | |
| MATH 2011, 2012, 2013 Calculus I one hour, II, III | 9 | |
| CSCI 1301 or 2060 Programming for Science and Engineering | 1 | |
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| Non-core Courses | | 6-17 |
| MATH 2011 (if not in D, transfer student) | 0-3 | |
| CSCI 1301 or 2060 (3 hours from F) | 3 | |
| CHEM 1211, 1212 Principles of Chemistry I, II (if not in D) | 0-8 | |
| MATH 3020 Differential Equations | 3 | |
| | | |
| Major Concentration | | 29 |
| PHYS 3000 Introduction to Nuclear Sciences | 3 | |
| PHYS 3010 Introduction to Nuclear Measurements | 3 | |
| PHYS 3020 Applications of Nuclear Sciences | 3 | |
| PHYS 3011 Electronics I | 4 | |
| PHYS 3250 Theoretical Mechanics | 4 | |
| PHYS 3300 Modern Physics | 3 | |
| PHYS 4051 Electromagnetic Theory I | 3 | |
| PHYS 4310 Thermal Physics | 3 | |
| PHYS 4010 Advanced Laboratory | 3 | |
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| With the assistance of your advisor, a minimum of 7 hours of courses from the following: | | 7-9 |
| PHYS 3012 Electronics II | 4 | |
| PHYS 3260 Computational Physics* | 3 | |
| PHYS 4052 Electromagnetic Theory II | 3 | |
| PHYS 4530 Mathematical Methods of Physics* | 3 | |
| PHYS 4600 Quantum Mechanics* | 3 | |
| PHYS 4900 Research | 2-4 | |
| | | |
| Free Electives | | 5-18 |
| | | |
| Physical Education | | 4 |

Satisfactory Physics Oral Exam Dept. Requirement Scaled score of 135 or higher on ETS Major Field Test

Total Hours for the Degree 124

*Courses marked with an asterisk are recommended for students who intend to pursue graduate studies in health physics.