Academic Planning Guide -Physics

North Park Unversity

effective with 2013-2014 Catalog

Major Requirements

Required Semester Hours **: BA: 48 semester hours**
BS: 60 semester hours

Prerequisites and Supporting Courses **: 12 semester hours**

- ☐ MATH 1510: Calculus and Analytic Geometry I (4) - *meets Analytical & Quantitative Reasoning Requirement*
- ☐ MATH 1520: Calculus and Analytic Geometry II (4)
- ☐ MATH 2030: Differential Equations (4)

Required Core Courses **: BA: 32 semester hours**
BS: 42 semester hours

- ☐ PHYS 1210: Introductory Physics I (4) - *meets Physical Science Requirement*
- ☐ PHYS 1220: Introductory Physics II (4)
- ☐ PHYS 1330: Mechanical Comprehension (2)
- ☐ PHYS 1410: Pursuit of Knowledge (2)
- ☐ PHYS 1510: Mathematical Methods of Physics (2)
- ☐ PHYS 2110: Modern Physics (4)
- ☐ PHYS 2510: Electronics for Scientists (3)
- ☐ PHYS 2520: Electronics Lab (1)
- ☐ PHYS 3310: Dynamics (4)
- ☐ PHYS 4030: Knowledge Reloaded (2)

BA degree:
select one of the following:

- ☐ PHYS 3410: Electromagnetic Fields (4)
- ☐ PHYS 3510: Quantum Mechanics (4)

BS degree:

- ☐ PHYS 3110: Statistical Thermodynamics (4)
- ☐ PHYS 3410: Electromagnetic Fields (4)
- ☐ PHYS 3510: Quantum Mechanics (4)
- ☐ PHYS 4010: Fourth Year Seminar (2)

Elective Courses **: BA: 4 semester hours**
BS: 6 semester hours

Refer to the college catalog for a listing of approved elective courses

Notes:

- It is recommended that students take Math 3100
- In addition all students will be required to write a senior thesis. Students may undertake some type of original research project which will result in a written paper to be submitted to the department for review. Students should also present their research at either a departmental symposium or at an organized off-campus meeting.

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Core Curriculum

Starting with the framework of North Park's identity as a Christian, liberal arts institution, our Core Curriculum is intentionally multi-disciplinary and multi-year. It is set up as a progress through three areas: Foundation Courses, Explorations Courses, and Capstone Courses.

http://www.northpark.edu/Academics/Undergraduate-Studies/Core-Curriculum

Foundations

Preparing for more in-depth work in both the Core Curriculum and your major

	Cornerstone Seminar (4sh)
	Biblical Studies (4sh)
	Health and Well-Being (2sh)
	Analytical & Quantitative Reasoning (4sh)
	met by MATH 1510
	Global Histories (4sh)
	Modern Languages (8sh)

Explorations

Knowledge in specific disciplines, with strong emphasis on how you can use them in the context of your own life

	Art and Aesthetics (2sh)
	Christian Life & Thought (4sh)
	Life Science (2sh/lab)
	Physical Science (2sh/lab)
	met by PHYS 1210
	Culture and Society (4sh)
	Ethical Reasoning (2sh)

Intermediate Level Writing

Two courses in the context of your major that specifically address writing clearly and doing effective research

	Writing Intensive Course (4sh)
	Research Writing Course (4sh)

Keystone

Interdisciplinary integration of skills and knowledge applied to contemporary social issues

	Keystone Seminar (4sh)

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