

PHEN 4970: Internship (4)

PHEN 4010: Fourth Year Seminar (2)

## ACADEMIC PLANNING GUIDE - MECHANICAL ENGINEERING

effective with 2017-2018 Catalog

## **MAJOR REQUIREMENTS** Required Semester Hours: **BS: 72 semester hours** Supporting Courses: 20 semester hours MATH 1510: Calculus I (4) - meets Analytical & Quantitative Reasoning Requirement MATH 1520: Calculus II (4) MATH 2030: Differential Equations (4) MATH 3050: Vector Calculus or MATH 3100: Linear Algebra (4) CHEM 1150: General Chemistry I (4) Note: Some of the above courses may require prerequisites not included in this list. Required Core Courses: 52 semester hours PHEN 1210: Introductory Physics I (4) - meets Physical Science Requirement PHEN 1220: Introductory Physics II (4) PHEN 1330: Mechanical Comprehension (2) PHEN 1340: Design Thinking (2) PHEN1410: Pursuit of Knowledge (2) PHEN 1510: Mathematical Methods of Physics (2) PHEN 2170: Systems (4) PHEN 2510: Electronics for Scientists (3) PHEN 2520: Electronics Lab (1) PHEN 3110: Statistical Thermodynamics (4) PHEN 3120: Materials for Design (4) PHEN 3310: Dynamics (4) PHEN 3610: Transport Phenomena (4) PHEN 4030: Knowledge Reloaded (2) PHEN 4930: Research Methods (4)

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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	Explorations
Preparing for more in-depth work in both the Core Curriculum and your major	Knowledge in specific disciplines, with strong emphasis on how you can use them in the context of your own life
Cornerstone Seminar (4sh)	Art and Aesthetics (2sh)
Biblical Studies (4sh)	Christian Life & Thought (4sh)
Health and Well-Being (2sh)	Life Science (2sh/lab)
Analytical & Quantitative Reasoning (4sh)  met by MATH 1510	Physical Science (2sh/lab)  met by PHYS 1210
Global Histories (4sh)	Culture and Society (4sh)
Modern Languages (8sh)	Ethical Reasoning (2sh)
Interme	ediate Level Writing
	specifically address writing clearly and doing effective research
Writing Intensive Course (4sh)	Research Writing Course (4sh)
met by PHEN 1410 and PHEN 2950	
	Keystone
Interdisciplinary integration of skills a	and knowledge applied to contemporary social issues
Keystone Seminar (4sh)	

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