

ACADEMIC PLANNING GUIDE - ENGINEERING

effective with 2017-2018 Catalog

MAJOR REQUIREMENTS

Required Semester Hours: BA: 56 semester hours

Supporting Courses: 20 semester hours

MATH 1510: Calculus I (4) - meets Analytical & Quantitative Reasoning Requirement

PHEN 1210: Introductory Physics I (4) - meets Physical Science Requirement

PHEN 1220: Introductory Physics II (4)

Additional 8 sh from identified courses in BIOL, CHEM, EXS MATH & STAT. See the catalog for courses that meet this requirement. Note: Some of the above courses may require prerequisites not included in this list.

Required Core Courses: 28 semester hours

PHEN 1330: Mechanical Comprehension (2)

PHEN 1510: Mathematical Methods of Physics (2)

PHEN 2510: Electronics for Scientists (3)

PHEN 2520: Electronics Lab (1)

PHEN 3310: Dynamics (4)

PHEN 3610: Materials (4)

Select PHEN courses numbered 2000 or above for a total of 12 credits. These course cannot double count for Elective Courses below. PHEN course 2000+ (2-4)

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Note: MATH 2030, 3050 or 3100 can be substituted for one of the PHEN courses 2000+

Elective Courses: 8 semester hours; These courses cannot double count for PHEN courses numbered 2000 or above

PHEN 1410: Pursuit of Knowledge (2), meets Writing Intensive designation

PHEN 2950: Topics in History and Philosophy of Physics (2), may be repeated, meets Writing Intensive designation

PHEN 4030: Knowledge Reloaded (2)

PHIL 2530: Business and Professional Ethics (2) - meets Ethical Reasoning requirement

PHIL 2930: Introductory Issues in Philosophy - Philosophy of Technology (4)

Notes:

All students will carry out a senior design project.

Students are recommended to participate in some sort of internship in Engineering.

Students might also undertake some type of original research project that will result in 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.

There is no honors option for the B.A.



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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

Explorations

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)	Physical Science (2sh/lab)				
met by MATH 1510	met by PHYS 1210				
Global Histories (4sh)	Culture and Society (4sh)				
Modern Languages (8sh)	Ethical Reasoning (2sh)				
Intermediate Level Writing					

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

Writing Intensi	ve Course (4sh)			Research Writing Course (4sh)	
met by PHEN	1410 and PHEN 2950	-			
Keystone					
Interdisciplinary integration of skills and knowledge applied to contemporary social issues					

Keystone Seminar (4sh)

The Academic Planning Guide is designed as a guide for students planning their course selections. The information on this page provides only a suggested schedule. Actual course selections should be made with the advice and consent of a faculty advisor. While accurately portraying the information contained in the college catalog, this form is not considered a legal substitute for that document. Students should become familiar with the catalog in effect at the time in which they entered the institution.