

# ACADEMIC PLANNING SHEET

# ENGINEERING (3-2 PROGRAM)

NORTH PARK UNIVERSITY • CHICAGO • ILLINOIS

Revised June 2009

	Fall Semester		Spring Semester	
<b>First Year</b>	<ul style="list-style-type: none"> <li>•NPD 1000: Dialogue I</li> <li>•MATH 1510: Calculus and Analytic Geometry I</li> <li>•PHYS 1210: Introductory to Physics I</li> <li>PHYS 1330: Mechanical Comprehension</li> <li>PHYS 1510: Mathematical Methods of Physics</li> </ul>	<ul style="list-style-type: none"> <li>4</li> <li>4</li> <li>4</li> <li>2</li> <li>2</li> </ul>	<ul style="list-style-type: none"> <li>•BTS 1850: Introduction to the Bible</li> <li>•Personal Development Option</li> <li>MATH 1520: Calculus and Analytic Geometry II</li> <li>PHYS 1220: Introductory Physics II</li> <li>PHYS 1410: Pursuit of Knowledge</li> </ul>	<ul style="list-style-type: none"> <li>4</li> <li>2</li> <li>4</li> <li>4</li> <li>2</li> </ul>
	<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	<b>TOTAL SEMESTER HOURS</b>	<b>16</b>
<b>Second Year</b>	<ul style="list-style-type: none"> <li>•Culture and Society Option</li> <li>•Biblical Studies Option</li> <li>PHYS 2110: Modern Physics</li> <li>PHYS 3310: Dynamics</li> </ul>	<ul style="list-style-type: none"> <li>4</li> <li>4</li> <li>4</li> <li>4</li> </ul>	<ul style="list-style-type: none"> <li>•NPD 2000: Dialogue II</li> <li>•Science Quad (Biology)</li> <li>•Fine Arts Option</li> <li>MATH 2030: Differential Equations</li> <li>PHYS 2510: Electronics for Scientists</li> <li>PHYS 2520: Electronics Lab</li> </ul>	<ul style="list-style-type: none"> <li>4</li> <li>2</li> <li>2</li> <li>4</li> <li>3</li> <li>1</li> </ul>
	<b>TOTAL SEMESTER HOURS</b>	<b>16</b>	<b>TOTAL SEMESTER HOURS</b>	<b>16</b>
<b>Third Year</b>	<ul style="list-style-type: none"> <li>•NPD 3000: Dialogue III</li> <li>•Foreign Language 1010 Option</li> <li>CHEM 1150: Intro to Chemistry</li> <li>MATH 3100: Linear Algebra</li> </ul>	<ul style="list-style-type: none"> <li>4</li> <li>4</li> <li>4</li> <li>4</li> </ul>	<ul style="list-style-type: none"> <li>•Foreign Language 1020 Option</li> <li>CHEM 1160: Intro to Chemistry II</li> <li>PHYS 3110 Statistical Thermodynamics</li> <li>PHYS 4030: Knowledge Reloaded</li> </ul>	<ul style="list-style-type: none"> <li>4</li> <li>4</li> <li>4</li> <li>4</li> </ul>
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- Course meets a general education requirement

Students completing the 3-2 Engineering program will receive a B.A. in Physics from North Park. The 3-2 engineering program consists of 3 years at North Park at which time the student transfers to an accredited engineering school. It is recommended that students take the following courses while at North Park: PHYS 1210, 1220, 1330, 1510, 2110, 2510, 2520, 3310, MATH 1510, 1520, 2030, 3100, CHEM 1150, 1160, and all of the North Park general education requirements. In order to fulfill all the requirements of a B.A. in Physics at North Park, the student, upon completion of course work at the accredited engineering school, will transfer back course to satisfy all major requirements.

The Academic Planning Sheet 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 an academic 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.

**Graduation Requirement:**

120 semester hours, minimum

**General Education Requirements:**

44 semester hours

- The North Park Dialogue (12)
  - Dialogue I (4)
  - Dialogue II (4)
  - Dialogue III (4)
- Culture and Society (4)
- Personal Development (2)
- Biblical Studies (8)
  - BTS 1850 (4)
  - BTS option (4)
- Foreign Language (8)
  - 1010 Level (4)
  - 1020 Level (4)
- Mathematics (4) Met by major course MATH 1510
- Fine Arts (2)
- Natural Science (4)
  - Biology (2)
  - Chemistry/Physics (2) Met by major course PHYS 1210

See General Education checklist for specific courses that will fulfill each requirement.  
<http://www.northpark.edu/generaleducation>

Some general education courses may meet course requirements for your major.

**Additional Graduation Requirements**

- Total of 120 semester hours, minimum. Additional courses may need to be taken to meet this requirement.
- Grade Point Average
  - Overall cumulative grade point average of 2.00
  - Cumulative grade point average in major of 2.00
- Last 30 semester hours must be taken at North Park
- Acceptance into the major

**Major Requirements:*****Required Semester Hours: 46 semester hours******Prerequisites and Supporting Courses: 12 semester hours***

- MATH 1510: Calculus I (4)
- MATH 1520: Calculus II (4)
- MATH 2030: Differential Equations (4)

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

- PHYS 1210: Introductory Physics I (4)
- 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 3110: Statistical Thermodynamics (4)
- PHYS 3310: Dynamics (4)
- PHYS 4030: Knowledge Reloaded (2)

***Elective Courses: 6 semester hours*****Engineering Prerequisites:**

- CHEM 1150: Introduction to Chemistry I (4)
- CHEM 1160: Introduction to Chemistry II (4)
- MATH 3100: Linear Algebra (4)

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