

La Roche College  
**MINOR IN APPLIED PHYSICS PROGRAM GUIDE**  
 Department: Mathematics/Physics

Student Name \_\_\_\_\_  First-Year Student  Transfer  
 I.D. Number \_\_\_\_\_  Change of Major  Readmit

**PURPOSE:** Minors are offered as opportunities for students to fulfill career or personal interests, and/or to facilitate in depth study in a field of secondary interest.

The minor in Applied Physics comprises seven courses (24 credits). The five required courses are a three-semester introduction to Physics (12 credits), Analog Electronics (3 credits), and Digital Electronics (3 credits). The two electives may be selected from the following three-credit courses: Computational Physics, Electronic Communication, Physics of Information Theory, and Instrumentation Physics.

Following the three-semester introduction to Physics, the minor focuses on electronics and instrumentation. Accordingly, the laboratory becomes center stage of the minor's second act. Electronic and instrumentation expertise is a much sought at qualification these days.

**GENERAL RESTRICTIONS:** Minors must be completed within the student's graduation timeline. A minimum GPA of 2.0 must be achieved in the courses defining the minor in order to qualify for it.

**REQUIREMENTS:** 24 credits, distributed among five required and two elective courses, are necessary for the completion of the Applied Physics minor.

**REQUIRED COURSES:**

	<u>Credits</u>	<u>Comments</u>
____ PHYS1032 General Physics I	3	<u>Recommended prerequisite: MATH1033</u>
____ PHYS1032L General Physics I Lab	1	<u>The lab component of PHYS1032</u>
____ PHYS1033 General Physics II	3	<u>Prerequisite: PHYS1032; Recommended: MATH2030</u>
____ PHYS1033L General Physics II Lab	1	<u>The lab component of PHYS1033</u>
____ PHYS2030 General Physics III	3	<u>Prerequisite: PHYS1033</u>
____ PHYS2030L General Physics III Lab	1	<u>The lab component of PHYS2030</u>
____ PHYS2080 Analog Electronics (Electronics I)	3	<u>Prerequisite: PHYS1033</u>
____ PHYS2080L Analog Electronics Lab	0	<u>The lab component of PHYS2080</u>
____ PHYS3080 Digital Electronics (Electronics II)	3	<u>Prerequisite: PHYS2080</u>
____ PHYS3080L Digital Electronics Lab	0	<u>The lab component of PHYS3080</u>

**ELECTIVES (SELECT ANY TWO):**

____ PHYS3075 Computational Physics	3	<u>Prerequisites: CSCI1010, PHYS2030</u>
____ PHYS3082 Electronic Communication	3	<u>Prerequisite: PHYS2080</u>
____ PHYS3082L Electronic Communication Lab	0	<u>The lab component of PHYS 3082</u>
____ PHYS4075 Physics of Information Theory	3	<u>Prerequisite: PHYS2030</u>
____ PHYS4080 Instrumental Physics	3	<u>Prerequisite: PHYS2080</u>
____ PHYS4080L Instrumental Physics	0	<u>The lab component of PHYS4080</u>

Total Credits Earned \_\_\_\_\_  
 Credits Required 24  
 Credits Remaining \_\_\_\_\_

Registrar's Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Advisor Signature \_\_\_\_\_ Date \_\_\_\_\_

**(When signed by Advisor, all required coursework/credits have been completed for graduation.)**