MILLERSVILLE UNIVERSITY

Student Name:_____ Student I.D.#_____

DEGREE: BA
MAJOR: PHYS
OPTION: CSCI

MAJOR REQUIREMENTS FOR A BA DEGREE IN PHYSICS COMPUTER SCIENCE

Total credit hours required: 120.0 minimum

REQUIREMENTS AND POLICIES FOR THE BA PHYSICS MAJOR

A. Policies for Admission to the Major

1. New students (freshmen and transfers) must be admitted to the Physics major by the Office of Admissions upon admission to the University.
2. Admission into the Physics major from other departments is upon approval of the chairperson of the Department.
3. Non-degree and continuing education students must be admitted to the Physics major by the Office of Admissions.

B. Policies for Retention in the Major

1. University requirements for retention.

C. Policies for Completion of the Major

1. Completion of all University curricular requirements.
2. Students majoring in Physics are required to attain a C- or better in MATH 161 - 211 and PHYS 231 - 232 before taking courses which have these courses as prerequisites.

Note to the student: *This form is provided as a guide. It is your responsibility to consult regularly with your adviser to be aware of changes and curriculum details which are not incorporated on this form.*

MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BA PHYSICS**
Option: **COMPUTER SCIENCE**
Major Field Requirements: **29.0 credits**
Other Requirements: **47.0-53.0 credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

REQUIRED PHYSICS COURSES (29.0 credits)

Course No.		Short Title	C.H.	Grade
PHYS	231	Physics I with Calculus	5.0	____
PHYS	232	Physics II with Calculus	5.0	____
PHYS	233	Modern Theory Wave/Particles	3.0	____
PHYS	311	Mechanics I	3.0	____
PHYS	321	Electromagnetic Fields I	3.0	____
PHYS	334	Macro/Thermodynamics	3.0	____
PHYS	335	Quantum Sys/Stat	3.0	____
PHYS	351	Intermediate Lab I	1.0	____
PHYS	492	Research & Seminar	2.0	____
PHYS	498	Indepedent Study/Research	1.0	____

REQUIRED RELATED (47.0-53.0 credits)

Chemistry (8.0 credits)

Course No.		Short Title	C.H.	Grade
CHEM	111	Intro Chemistry I	4.0	____
CHEM	112	Intro Chemistry II	4.0	____

Computer Science (20.0 credits) *

Course No.		Short Title	C.H.	Grade
CSCI	140	Discrete Structures	4.0	____
CSCI	161	Intro to Computing I	4.0	____
CSCI	162	Intro to Computing II	4.0	____
CSCI	370	Computer Architecture	4.0	____
CSCI	362	Data Structures	4.0	____

Computer Science Electives (4.0 credits) *

Course No.		Short Title	C.H.	Grade
CSCI	385	Real-Time Systems	4.0	____
CSCI	395	Computer Networks	4.0	____
CSCI	456	Robotics/Comp Vis.	4.0	____

*These courses fulfill the requirements for a MINOR in Computer Science.

Mathematics (15.0 credits)

Course No.		Short Title	C.H.	Grade
MATH	161	Calculus I	4.0	____
MATH	211	Calculus II	4.0	____
MATH	311	Calculus III	4.0	____
MATH	365	Ord Diff Equations	3.0	____

Foreign Language (0 - 6.0 credits)

Competency required through the elementary level (FORL 101 and 102). To satisfy this requirement with two years of successful H.S. study in one language, please have your adviser contact the Degree Audit Office at dars@millersville.edu confirming the competency has been met.

____	101	Elementary I	3.0	____
____	102	Elementary II	3.0	____