

PHYSICS CHECKLIST

MAJOR: Physics (B.S.):

Computational Physics Option

NAME: _____
 E# _____ Catalog Yr _____
 Advisor _____ Yr Graduate _____
 Home Address/Phone _____
 Local Address/Phone _____

Major Requirements

	Grade	Sem Taken	
PHY 1351G (1391G) ..	____/____	(3 SH; F,S) .....General Physics I
PHY 1352G (1392G) ..	____/____	(1 SH; F,S) .....General Physics Lab I
PHY 1361	____/____	(3 SH; F,S) .....General Physics II
PHY 1362	____/____	(1 SH; F,S) .....General Physics Lab II
PHY 1371	____/____	(3 SH; F,S) .....General Physics III
PHY 1372	____/____	(1 SH; F,S) .....General Physics Lab III
PHY 2390	____/____	(3 SH; F) .....Classical Mechanics I
PHY 2400.....	____/____	(3 SH; S) .....Classical Mechanics II
PHY 3080	____/____	(3 SH; S) .....Modern Physics I
PHY 3320.....	____/____	(4 SH; S even) ...Computational Meth in Phy & Eng
PHY 3410.....	____/____	(3 SH; F even) ...Electricity & Magnetism I
PHY 4000.....	____/____	(1 SH; F,S) .....Seminar – 1 st Time
PHY 4010.....	____/____	(1 SH; F,S) .....Seminar – 2 nd Time
PHY 4320.....	____/____	(4 SH; S odd) ....Computational Physics
PHY 4600*.....	____/____	(1-3 SH) .....Research in Physics
PHY 4711	____/____	(1 SH; F,S) .....Experimental Lab
PHY 4850.....	____/____	(4 SH; F odd) ....Quantum Mech. & Atomic Physics I
CHM 1310G.....	____/____	(3 SH; F,S) .....General Chemistry I
CHM 1315G.....	____/____	(1 SH; F,S) .....General Chemistry Lab I
MAT 1441G (1440G) ..	____/____	(5(4) SH; F,S)....Calculus I
MAT 2170.....	____/____	(4 SH; F,S) .....Computer Science I
MAT 2442.....	____/____	(5 SH; F,S) .....Calculus II
MAT 2443.....	____/____	(4 SH; F,S) .....Calculus III
MAT 2550.....	____/____	(3 SH; F,S) .....Intro to Linear Algebra
MAT 3501.....	____/____	(3 SH; F,S) .....Differential Equations I

Electives

(And 6-8 semester hours from the following)

PHY 3090.....	____/____	.....	(3 SH; F odd) ....Modern Physics II
PHY 3270.....	____/____	.....	(4 SH; S) .....Introduction to Circuit Analysis
PHY 3300.....	____/____	.....	(3 SH; S odd) ....Advanced Classical Mechanics
PHY 3350.....	____/____	.....	(3 SH; S odd) ....Intro. to Solid State Physics
PHY 3420.....	____/____	.....	(3 SH; S odd) ....Electricity & Magnetism II
PHY 4100.....	____/____	.....	(3 SH; S even) ...Astrophysics
PHY 4470.....	____/____	.....	(4 SH; F odd) ....Optics
PHY 4750.....	____/____	.....	(4 SH; F even) ...Thermodynamics & Statistical Mech
PHY 4800*.....	____/____	.....	(1-6 SH) .....Independent Study
PHY 4860.....	____/____	.....	(2 SH; S even) ...Quantum Mechanics II
PHY 4870.....	____/____	.....	(3 SH; F odd) ....Mathematical Methods

*A limit of 3 semester hours of PHY 4800 may be counted toward the option.

Graduation Requirements

_____ 120 Semester hours (SH)	_____ 42 SH in residence at EIU
_____ 2.00 Cumulative GPA	_____ 32 SH Junior-Senior Residency
_____ 2.00 Major GPA	_____ 12 SH senior residency
	_____ 56 SH at senior institution (Transfer students)
_____ 40 SH of upper division courses (3000-4000)	
_____ Senior Seminar (after completion of 75 hours)	
_____ Cultural Diversity (designated with an * in catalog)	
_____ Application for degree. (Apply for graduation after 60 SH)	

Electronic Writing Portfolio

Information about the Electronic Writing Portfolio is available at <http://www.eiu.edu/~assess/ewpmain.php>.

Foreign Language (0-8 SH) Exempt? Yes / No
Exemption? Two years in a single foreign language
in high school with an average grade of C or better.

Course	Sem. Hrs	Grade	Sem Taken
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____

Senior Seminar (3 semester hours)

Taken after student has completed 75 hours.

Course	Sem. Hrs	Grade	Sem Taken
_____ / _____	_____ / _____	_____ / _____	_____ / _____

General Education Requirements

A student transferring to Eastern Illinois University who has received an Associate in Art (AA), an Associate in Science (AS) or an Associate in Science and Arts (ASA) degree from an Illinois public community college, Lincoln College, or Springfield College in Illinois, is considered as having:

- Junior status
- A minimum of 60 semester hours of transfer credit accepted
- The cultural diversity, and the constitution requirements automatically waived
- Lower division general education requirements met

All students will still have to complete [Eastern's graduation requirements](#)

Humanities & Fine Arts (9 semester hours)

Student must successfully complete at least one course from humanities and one from fine arts, from at least two different disciplines.

Course	Sem. Hrs	Grade	Sem Taken
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____

Mathematics (3 semester hours)

This requirement is met with major requirements

Language (9 semester hours) Grade of C or better

	Grade	Sem Taken
ENG 1001G (1091G) 3 sh / _____	_____ / _____	_____ / _____
ENG 1002G (1092G) 3 sh / _____	_____ / _____	_____ / _____
CMN 1310G (1391G) 3 sh / _____	_____ / _____	_____ / _____

Scientific Awareness (7 semester hours)

Only need to take a Biological Science course the rest is fulfilled by the major.

Course	Sem. Hrs	Grade	Sem Taken
_____ / _____	_____ / _____	_____ / _____	_____ / _____

Social & Behavioral Sciences (9 sem. hrs.)

Courses must be selected from two different disciplines.

Course	Sem. Hrs	Grade	Sem Taken
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____