

# PHYSICS CHECKLIST

## MAJOR: Physics (B.S.): Astronomy Option

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

### Major Requirements (66 sem hrs)

	Grade	Sem Taken	
PHY 1001 .....	____/____	.....	(1SH; S).....Intro to Physics & Engineering
PHY 1055G (1095G) .....	____/____	.....	(3 SH; F, S)..... Principles of Astronomy
PHY 1056G (1096G) .....	____/____	.....	(1 SH; F, S)..... Principles of Astronomy Lab
PHY 1351G (1391G) .....	____/____	.....	(3 SH; F)..... General Physics I
PHY 1352G (1392G).....	____/____	.....	(1 SH; F)..... General Physics Lab I
PHY 1361 .....	____/____	.....	(3 SH; S)..... General Physics II
PHY 1362 .....	____/____	.....	(1 SH; S)..... General Physics Lab II
PHY 1371 .....	____/____	.....	(3 SH; F)..... General Physics III
PHY 1372 .....	____/____	.....	(1 SH; F)..... General Physics Lab III
PHY 2450 .....	____/____	.....	(3 SH; S)..... Classical Dynamics
PHY 3150 .....	____/____	.....	(4 SH; F)..... Electronics
PHY 4000 .....	____/____	.....	(1 SH; F)..... Seminar in Physics
PHY 4100 .....	____/____	.....	(3 SH; S odd) .... Astrophysics
PHY 4470.....	____/____	.....	(4 SH; F even) ... Optics
PHY 4601(4602, 4603)...	____/____	.....	(1 SH; F, S)..... Research in Physics
CSM 2170 .....	____/____	.....	(4 SH; F, S) ..... Computer Science I
Either: GEO 3275 .....	____/____	.....	(3 SH; S odd) ..... Planetary Geology
Or: PHY 3100 .....	____/____	.....	(3 SH; On Demand) ... Astronomical Techniques
MAT 1441G.....	____/____	.....	(5 SH; F, S)..... Calculus I
MAT 2442.....	____/____	.....	(5 SH; F, S)..... Calculus II
MAT 2443.....	____/____	.....	(4 SH; F, S)..... Calculus III
MAT 3501 .....	____/____	.....	(3 SH; S)..... Differential Equations I

### Electives:

9 semester hours chosen from the list below with at least 3 semester hours from part A of the list. The rest can be from either Part A or Part B of the list.

#### Part A

PHY 3410 .....	____/____	.....	(3 SH; F even)..... Electricity & Magnetism I
PHY 4750 .....	____/____	.....	(3 SH; F odd) .... Thermodynamics & Statistical Mech.
PHY 4780 .....	____/____	.....	(3 SH; S odd)..... Introduction to Plasma Physics
PHY 4855 (4850) .....	____/____	.....	(3 SH; F odd) .... Quantum Mechanics

#### Part B

MAT 2550.....	____/____	.....	(3 SH; F, S) ..... Introduction to Linear Algebra
CSM 2670 .....	____/____	.....	(4 SH; F, S) ..... Object Oriented Programming
PHY 3350 .....	____/____	.....	(3 SH; On Demand) ... Intro to Solid State Physics
PHY 3420 .....	____/____	.....	(4 SH; S odd)..... Electricity & Magnetism II
PHY 4320.....	____/____	.....	(4 SH; S even) ... Computational Physics
PHY 4444.....	____/____	.....	(3 SH) ..... Honors Independent Study A
PHY 4555 .....	____/____	.....	(3 SH)..... Honors Research
PHY 4711 .....	____/____	.....	(1 SH; F, S)..... Advanced Lab I
PHY 4712 .....	____/____	.....	(1 SH; F, S)..... Advanced Lab II
PHY 4713 .....	____/____	.....	(1 SH; F, S)..... Advanced Lab III
PHY 4800 .....	____/____	.....	(1-6 SH) ..... Advanced Independent Study
PHY 4865 (4860) .....	____/____	.....	(3 SH; S even) .... Advanced Quantum Mechanics

## 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
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**We highly recommend that you log into PAWS and do a DegreeWorks audit to help determine what classes are needed for graduation!**

## **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
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____