

PHYSICS CHECKLIST

MAJOR: Physics (B.S.):

Computational Physics Option

Major Requirements (78 sem hrs)

	Grade	Sem Taken	
PHY 1001.....	/	/	..... (1SH; S).....Intro to Physics & Engineering
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 3415.....	/	/	.....(4 SH; F even)...Electricity & Magnetism I w/lab
PHY 3420.....	/	/	.....(4 SH; S odd) ....Electricity & Magnetism II
PHY 4000.....	/	/	.....(1 SH; F odd) ....Seminar in Physics
PHY 4320.....	/	/	.....(4 SH; S even)...Computational Physics
PHY 4601, 4602, 4603.	/	/	.....(1,2,3 SH; F, S) .Research in Physics
PHY 4711 .....	/	/	.....(1 SH; F, S) .....Experimental Physics – I
PHY 4750.....	/	/	.....(3 SH; F odd) ...Thermodynamics & Statistical Mech.
PHY 4855 (4850) .....	/	/	.....(3 SH; F odd) ...Quantum Mechanics
CHM 1310G.....	/	/	.....(3 SH; F, S) .....General Chemistry I
CHM 1315G.....	/	/	.....(1 SH; F, S) .....General Chemistry Lab I
CSM 2170 .....	/	/	.....(4 SH; F, S) .....Computer Science I
CSM 2670 .....	/	/	.....(4 SH; S) .....Object Oriented Programming
CSM 3570 .....	/	/	.....(3 SH; F, S) .....Numerical Analysis
MAT 1441G (1440G)...	/	/	.....(5(4) SH; F, S)...Calculus I
MAT 2442.....	/	/	.....(5 SH; F, S) .....Calculus II
MAT 2443.....	/	/	.....(4 SH; F, S) .....Calculus III
MAT 2550.....	/	/	.....(3 SH; F, S) .....Introduction to Linear Algebra
MAT 3501.....	/	/	.....(3 SH; S) .....Differential Equations I

Electives (3 semester hours)

PHY 3150 .....	/	/	.....(4 SH; F) .....Electronics
PHY 3350.....	/	/	.....(3 SH; On Demand)...Intro to Solid State Physics
PHY 4100.....	/	/	..... (3 SH; S odd)....Astrophysics
PHY 4444.....	/	/	.....(3 SH) .....Honors Independent Study A
PHY 4470.....	/	/	..... (4 SH; F even) ..Optics
PHY 4555.....	/	/	.....(3 SH).....Honors Research
PHY 4780.....	/	/	.....(3 SH; S odd) ....Introduction to Plasma Physics
PHY 4800.....	/	/	.....(1-3 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
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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)