

PHYSICS CHECKLIST

MAJOR: Engineering

Physics (3-2) (B.S.)

Major Requirements (63 sem hrs)

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

	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 2390	_____ / _____	_____	(3 SH; F) Statics
PHY 2450	_____ / _____	_____	(3 SH; S) Classical Dynamics
PHY 3150	_____ / _____	_____	(4 SH; F) Electronics
PHY 4000	_____ / _____	_____	(1 SH; F) Seminar in Physics
PHY 4711	_____ / _____	_____	(1 SH; F, S) Experimental Physics – I
PHY 4712	_____ / _____	_____	(1 SH; F, S) Experimental Physics II
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
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

12 Semester Hours from Category A+B+C

Category A (must take at least one of these)

PHY 3415	_____ / _____	_____	(4 SH; F even)..... Electricity & Magnetism I w/lab
PHY 4855 (4850)	_____ / _____	_____	(3 SH; F odd) Quantum Mechanics

Category B (must take at least one of these)

PHY 3350	_____ / _____	_____	(3 SH; On Demand)... Solid State
PHY 4320.....	_____ / _____	_____	(4 SH; S even) ... Computational Physics
PHY 4470.....	_____ / _____	_____	(4 SH; F even) ... Optics
PHY 4750	_____ / _____	_____	(3 SH; F odd) Thermodynamics & Statistical Mech.
PHY 4780	_____ / _____	_____	(3 SH; S odd) Introduction to Plasma Physics

Category C

PHY 3270	_____ / _____	_____	(4 SH; S) Introduction to Circuit Analysis
PHY 3420	_____ / _____	_____	(4 SH; S odd) Electricity & Magnetism II
PHY 4100	_____ / _____	_____	(3 SH; S odd) Astrophysics
PHY 4444	_____ / _____	_____	(3 SH)..... Honors Independent Study A
PHY 4555	_____ / _____	_____	(3 SH)..... Honors Research
PHY 4601/4602/4603	_____ / _____	_____	(1/2/3 SH; F, S)... Research in Physics
PHY 4644	_____ / _____	_____	(3 SH; F, S) Honors Thesis
PHY 4800	_____ / _____	_____	(1-3 SH) Advanced Independent Study
PHY 4865 (4860).....	_____ / _____	_____	(3 SH; S even)..... Advanced Quantum Mechanics

Recommended Courses (may be required for some Engineering programs)

EGT 2043.....	_____ / _____	_____	(3 SH; F)Computer Aided Engineering Drawing
CHM 1410	_____ / _____	_____	(3 SH; F, S) General Chemistry II
CHM 1415	_____ / _____	_____	(1 SH; F, S) General Chemistry Lab II
ECN 2801G.....	_____ / _____	_____	(3 SH; F, S) Principles of Macroeconomics
EEN 1100.....	_____ / _____	_____	(3 SH; S) Introduction to Logic Design
EEN 1101.....	_____ / _____	_____	(1 SH; S) Introduction to Logic Design Lab

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
_____ 40 SH of upper division courses (3000-4000)	_____ 56 SH at senior institution (Transfer students)
_____ N/A 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
_____ / _____	_____ / _____	_____ / _____	_____ / _____

**No Senior Seminar required for this program*

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
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____