

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 odd)..... 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 (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 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 3410 .....	____/____	.....	(3 SH; F even)..... Electricity & Magnetism I
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 .....	____/____	.....	(3 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 .....	____/____	.....	(1 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; S)..... 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
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____
_____ / _____	_____ / _____	_____ / _____	_____ / _____

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

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