PHYSICS CHECKLIST
MAJOR: Engineering Physics (3-2) (B.S.)

NAME: _____

E# _____Catalog Yr _____

Advisor _____ Yr Graduate _____

Home Address/Phone_____

Local Address/Phone _____

Major Requirements (63 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 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; 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)
_____ 2.00 Cumulative GPA
_____ 2.00 Major GPA
_____ 40 SH of upper division courses (3000-4000)
_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)

_____ 42 SH in residence at EIU
_____ 32 SH Junior-Senior Residency
_____ 12 SH senior residency
_____ 56 SH at senior institution (Transfer students)

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