

PHYSICS CHECKLIST

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

NAME: _____
SS# _____ Cat Yr _____
Advisor _____ Yr Graduate _____
Home Address/Phone _____
Local Address/Phone _____

Major Requirements

	Grade	Sem Taken	
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,S) .....General Physics I
PHY 1352G (1392G) ...	____/____	_____	.....(1 SH; F,S) .....General Physics Lab I
PHY 1361 .....	____/____	_____	.....(3 SH; F,S) .....General Physics II
PHY 1362 .....	____/____	_____	.....(1 SH; F,S) .....General Physics Lab II
PHY 1371 .....	____/____	_____	.....(3 SH; F,S) .....General Physics III
PHY 1372 .....	____/____	_____	.....(1 SH; F,S) .....General Physics Lab III
PHY 2600.....	____/____	_____	.....(1-3 SH; F,S).....Intro Research in Physics
PHY 3080 .....	____/____	_____	.....(3 SH; S) .....Modern Physics I
PHY 3100.....	____/____	_____	.....(3 SH; S odd) ....Astronomical Techniques
PHY 3150.....	____/____	_____	.....(4 SH; F) .....Electronics
PHY 4100.....	____/____	_____	.....(3 SH; S even)...Astrophysics
PHY 4470.....	____/____	_____	.....(4 SH; F odd) ....Optics
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

Electives

(3 semester hours)

MAT 2170.....	____/____	_____	.....(4 SH; F,S) .....Computer Science I
MAT 2550.....	____/____	_____	.....(3 SH; F,S) .....Intro. to Linear Algebra
MAT 3501.....	____/____	_____	.....(3 SH; F,S) .....Differential Equations I

(And 6 semester hours from the following)

PHY 3090.....	____/____	_____	.....(3 SH; F odd) ....Modern Physics II
PHY 3300.....	____/____	_____	.....(3 SH; S odd) ....Advanced Classical Mechanics
PHY 3320.....	____/____	_____	.....(4 SH; S even)...Computational Meth. in Phy. & Eng.
PHY 3410.....	____/____	_____	.....(3 SH; F even)...Electricity & Magnetism I
PHY 3420.....	____/____	_____	.....(3 SH; S odd) ....Electricity & Magnetism II
PHY 4444*.....	____/____	_____	.....(3 SH;).....Honors Independent Study
PHY 4555*.....	____/____	_____	.....(3 SH;).....Honors Research
PHY 4600*.....	____/____	_____	.....(1-3 SH;) .....Research in Physics
PHY 4750.....	____/____	_____	.....(4 SH; F even) ...Thermodynamics & Statis, Mech.
PHY 4800*.....	____/____	_____	.....(1-6 SH) .....Independent Study
PHY 4850.....	____/____	_____	.....(4 SH; F odd).....Quantum Mech. & Atomic Physics I
PHY 4860.....	____/____	_____	.....(2 SH; S even)...Quantum Mechanics II
PHY 4870.....	____/____	_____	.....(3 SH; F odd) ....Mathematical Methods

*A limit of 1 hour of Physics 4444, 4555, 4600 or 4800 may be counted toward the degree.
(Major GPA based on all physics courses taken at EIU.)

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 Ed. 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) 3sh	/ _____ / _____	
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
_____ / _____ / _____ / _____			
_____ / _____ / _____ / _____			
_____ / _____ / _____ / _____			