**Major Requirements (57 sem hrs)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Sem Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 1001</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(1 Sh; S) Intro to Physics &amp; Engineering</td>
</tr>
<tr>
<td>PHY 1055G (1095G)</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(3 Sh; F) Principles of Astronomy</td>
</tr>
<tr>
<td>PHY 1056G (1096G)</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(1 Sh; F) Principles of Astronomy Lab</td>
</tr>
<tr>
<td>PHY 1351G (1391G)</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(3 Sh; F) General Physics I</td>
</tr>
<tr>
<td>PHY 1352G (1392G)</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(1 Sh; F) General Physics Lab I</td>
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<tr>
<td>PHY 1361</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(3 Sh; S) General Physics II</td>
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<tr>
<td>PHY 1362</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(1 Sh; S) General Physics Lab II</td>
</tr>
<tr>
<td>PHY 1371</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(3 Sh; F) General Physics III</td>
</tr>
<tr>
<td>PHY 1372</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(1 Sh; F) General Physics Lab III</td>
</tr>
<tr>
<td>PHY 3150</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(4 Sh; F) Electronics</td>
</tr>
<tr>
<td>PHY 4000</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(1 Sh; F odd) Seminar in Physics</td>
</tr>
<tr>
<td>PHY 4100</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(3 Sh; S odd) Astrophysics</td>
</tr>
<tr>
<td>PHY 4470</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(4 Sh; F even) Optics</td>
</tr>
<tr>
<td>PHY 4601</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(1 Sh; F, S) Research in Physics</td>
</tr>
<tr>
<td>CSM 2170</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(4 Sh; F, S) Computer Science I</td>
</tr>
<tr>
<td>MAT 1441G (1440G)</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(5(4 Sh; F, S) Calculus I</td>
</tr>
<tr>
<td>MAT 2442</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(5 Sh; F, S) Calculus II</td>
</tr>
<tr>
<td>MAT 2443</td>
<td><strong><strong><strong>/</strong></strong></strong>_____</td>
<td>(4 Sh; F, S) Calculus III</td>
</tr>
</tbody>
</table>

**Electives:**

3 Semester Hours chosen from the list below:

- MAT 2550                      | ______/___________ | (3 Sh; F, S) Introduction to Linear Algebra |
- MAT 3501                      | ______/___________ | (3 Sh; S) Differential Equations I |
- CSM 2670                      | ______/___________ | (4 Sh; S) Computer Science II |
- PHY 2450                      | ______/___________ | (3 Sh; S) Classical Dynamics |

6 Semester Hours chosen from the list below:

- PHY 3350                      | ______/___________ | (3 Sh; On Demand) Solid State |
- PHY 3410                      | ______/___________ | (3 Sh; F even) Electricity & Magnetism I |
- PHY 3420                      | ______/___________ | (4 Sh; S odd) Electricity & Magnetism II |

- PHY 4320                      | ______/___________ | (4 Sh; S even) Computational Physics |
- PHY 4444                      | ______/___________ | (3 Sh) Honors Independent Study A |

- PHY 4555                      | ______/___________ | (3 Sh) Honors Research |
- PHY 4750                      | ______/___________ | (3 Sh; F odd) Thermodynamics & Statistical Mech. |
- PHY 4800                      | ______/___________ | (1-3 Sh) Advanced Independent Study |
- PHY 4855 (4850)               | ______/___________ | (3 Sh; F odd) Quantum Mechanics |
- PHY 4865 (4860)               | ______/___________ | (3 Sh; S even) Advanced Quantum Mechanics |
Graduation Requirements

- 120 Semester hours (SH)
- 2.00 Cumulative GPA
- 2.00 Major GPA
- 42 SH in residence at EIU
- 32 SH Junior-Senior Residency
- 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
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Senior Seminar (3 semester hours)
Taken after student has completed 75 hours.

Course       Sem Hrs     Grade   Sem Taken
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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
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We highly recommend that you log into PAWS and do a DARS 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
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
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Social & Behavioral Sciences (9 sem. hrs.)
Courses must be selected from two different disciplines.

Course       Sem Hrs     Grade   Sem Taken
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