

# ELECTRICAL ENGINEERING CHECKLIST

## MAJOR: EE (B.S.):

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

### Major Requirements (81-83 sem hrs)

|                   | Grade     | Sem Taken |  |
|-------------------|-----------|-----------|--|
| EEN 1001          | ____/____ | _____     | (1SH; S).....Intro to Physics & Engineering      |
| EEN 1100          | ____/____ | _____     | (3 SH; S) .....Intro to Logic Design             |
| EEN 1101          | ____/____ | _____     | (1 SH; S) .....Intro to Logic Design Lab         |
| EEN 3150          | ____/____ | _____     | (4 SH; F) .....Electronics                       |
| EEN 3270          | ____/____ | _____     | (4 SH; S) .....Intro to Circuit Analysis         |
| EEN 4301          | ____/____ | _____     | (4 SH; F even) ...Digital Systems and Design     |
| EEN 4330          | ____/____ | _____     | (3 SH; S odd) ...Embedded Systems                |
| EEN 4401          | ____/____ | _____     | (3 SH; F odd) ...Signals and Systems             |
| EEN 4501          | ____/____ | _____     | (4 SH; S even) ...Feedback and Control Systems   |
| EEN 4601          | ____/____ | _____     | (3 SH; F odd) ....Semiconductor Device Physics   |
| EEN 4701          | ____/____ | _____     | (3 SH; S) .....Senior Design                     |
| 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 2550          | ____/____ | _____     | (3 SH; F, S) .....Introduction to Linear Algebra |
| MAT 3501          | ____/____ | _____     | (3 SH; S) .....Differential Equations I          |
| MAT 3701          | ____/____ | _____     | (3 SH; F) .....Probability and Statistics I      |
| 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 3410          | ____/____ | _____     | (3 SH; F even) ...Electricity & Magnetism I      |

### Electives (3-4 semester hours)

|          |           |       |   |
|----------|-----------|-------|---|
| EEN 4275 | ____/____ | _____ | (1-2 SH; On Demand)...Internship in EE            |
| EEN 4780 | ____/____ | _____ | (3 SH; S odd)....Intro to Plasma Physics          |
| EEN 4430 | ____/____ | _____ | (3 SH; S even) ...Communications Theory & Systems |
| CSM 2670 | ____/____ | _____ | (4 SH; F, S) .....Object Oriented Programming     |
| CSM 3670 | ____/____ | _____ | (3 SH; F) .....Principles of Computer Systems     |
| PHY 3420 | ____/____ | _____ | (4 SH; S odd) ...Electricity & Magnetism II       |
| PHY 4320 | ____/____ | _____ | (4 SH; S even) ..Computational Physics            |
| PHY 4470 | ____/____ | _____ | (4 SH; F even) ..Optics                           |

## 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 |
|--------|---------|-------|-----------|
| _____  | _____   | _____ | _____     |
| _____  | _____   | _____ | _____     |

## **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 |
|--------|---------|-------|-----------|
| _____  | _____   | _____ | _____     |
| _____  | _____   | _____ | _____     |
| _____  | _____   | _____ | _____     |
| _____  | _____   | _____ | _____     |

**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)**

MAT 1441G \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ SH \_\_\_\_\_/\_\_\_\_\_

## **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 |
|-----------|-----------|-----------|-----------|
| PHY 1351G | ____/____ | ____/____ | ____/____ |
| PHY 1352G | ____/____ | ____/____ | ____/____ |
| BIO       | ____/____ | ____/____ | ____/____ |

## **Social & Behavioral Sciences (9 sem. hrs.)**

Courses must be selected from two different disciplines.

| Course | Sem Hrs | Grade | Sem Taken |
|--------|---------|-------|-----------|
| _____  | _____   | _____ | _____     |
| _____  | _____   | _____ | _____     |
| _____  | _____   | _____ | _____     |