

ASSOCIATE IN ENGINEERING SCIENCE DEGREE

RLC Graduation Requirements Worksheet

Students will not be denied admission because of deficiencies in high school work but must satisfy these deficiencies before graduation from Rend Lake College. **Meeting graduation requirements ultimately is the responsibility of the student. Students are encouraged to be familiar with the catalog and program requirements and to work with their academic advisors in selecting courses.**

IMPORTANT NOTE: Completion of the AES degree does not fulfill the requirements of the Illinois General Education Core Curriculum. Therefore, students will need to fulfill the general education requirements of the institution to which they transfer. The student's total program must contain a minimum of 68 semester hours of academic work with a grade-point average of not less than "C" (2.0).

I. SOCIAL and BEHAVIORAL SCIENCES – Required 1 course (3 hrs.)

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|---|---|--|
| <input type="checkbox"/> ANTH 1101 - Cultural Anthropology (3)* | <input type="checkbox"/> HIST 1102 - Western Civilization II (3) | <input type="checkbox"/> PSYC 2101 - Intro to Psychology (3) |
| <input type="checkbox"/> ECON 1101 - Intro to Economics (3) | <input type="checkbox"/> HIST 2101 - American History I (3) | <input type="checkbox"/> PSYC 2102 - Child Psychology (3) |
| <input type="checkbox"/> ECON 2101 - Principles of Economics I (3) | <input type="checkbox"/> HIST 2102 - American History II (3) | <input type="checkbox"/> PSYC 2105 - Social Psychology (3) |
| <input type="checkbox"/> ECON 2102 - Principles of Economics II (3) | <input type="checkbox"/> HIST 2107 - Latin American History (3)* | <input type="checkbox"/> SOCI 1101 - Intro to Sociology (3) |
| <input type="checkbox"/> GEOG 1101 - Introduction to Geography (3)* | <input type="checkbox"/> POLI 1101 - State / Local Government (3) | <input type="checkbox"/> SOCI 2101 - Social Problems (3) |
| <input type="checkbox"/> HIST 1101 - Western Civilization I (3) | <input type="checkbox"/> POLI 2101 - American Government (3) | <input type="checkbox"/> SOCI 2102 - Marriage and Family (3) |

*This course meets the requirement for this section and Section VI/Multiculturalism.

II. MATHEMATICS – Required 4 courses (17 hrs.)

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|---|--|
| <input type="checkbox"/> MATH 1121 - Calculus/An. Geometry I (5) | <input type="checkbox"/> MATH 2123 - Calculus/An. Geometry III (4) |
| <input type="checkbox"/> MATH 2122 - Calculus/An. Geometry II (5) | <input type="checkbox"/> MATH 2130 - Differential Equations (3) |

III. SCIENCE – Required 6 or 7 courses (21-30 hrs.)

Required: All three Physical Science courses listed and the Computer Programming course; two or three courses from Engineering Specialties

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|--|---|--|
| PHYSICAL SCIENCES (15 hours) | <input type="checkbox"/> PHY 1103 - University Physics I (5) | COMPUTER PROGRAMMING (3 hours) |
| <input type="checkbox"/> CHE 1103 - Inorganic Chemistry (5) | <input type="checkbox"/> PHY 1104 - University Physics II (5) | <input type="checkbox"/> CSCI 1104 - Intro to Programming (4) |
| LIFE SCIENCES | | |
| <input type="checkbox"/> BIO 1100 - Biology for Non-Majors (4) | <input type="checkbox"/> BIO 1102 - Environmental Ecology (4) | <input type="checkbox"/> MICR 1111 - Microbiology (4) |
| <input type="checkbox"/> BIO 1101 - College Biology (5) | <input type="checkbox"/> BOT 1101 - General Botany (5) | <input type="checkbox"/> ZOO 1101 - General Zoology (4) |
| ENGINEERING SPECIALTIES (6-15 hours) | | |
| <i>Chemical Engineering</i> | <i>Civil Engineering</i> | <i>Electrical Engineering</i> |
| <input type="checkbox"/> CHE 1104 - Q.A. / Inorganic Chemistry (5) | <input type="checkbox"/> ENGG 1101 - Engineering Graphics (4) | <input type="checkbox"/> PHY 2121 - Electrical Eng. Circuits (4) |
| <input type="checkbox"/> CHE 2120 - Organic Chemistry I (5) | <input type="checkbox"/> PHY 2101 - Statics (3) | |
| <input type="checkbox"/> CHE 2121 - Organic Chemistry II (5) | <input type="checkbox"/> PHY 2102 - Dynamics (3) | |

IV. HUMANITIES AND FINE ARTS – Required 1 course (3 hrs.)

Required: One course selected from either Humanities or Fine Arts
 * All languages require one full-year sequence for transfer credit

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|---|--|--|
| HUMANITIES | <input type="checkbox"/> ENGL 2110 - British Literature II (3) | <input type="checkbox"/> PHIL 2101 - Logic (3) |
| <input type="checkbox"/> ENGL 2101 - Classical Literature (3) | <input type="checkbox"/> ENGL 2111 - American Lit to 1865 (3) | <input type="checkbox"/> PHIL 2103 - World Religion (3)* |
| <input type="checkbox"/> ENGL 2102 - Intro to Literature (3) | <input type="checkbox"/> ENGL 2112 - American Lit 1865-Present (3) | <input type="checkbox"/> PHIL 2104 - Ethics (3) |
| <input type="checkbox"/> ENGL 2104 - The Short Story (3) | <input type="checkbox"/> ENGL 2113 - Intro to Drama (3) | <input type="checkbox"/> PHIL 2105 - Non-Western Philosophy (3)* |
| <input type="checkbox"/> ENGL 2105 - Introduction to Poetry (3) | <input type="checkbox"/> ENGL 2114 - The Novel (3) | <input type="checkbox"/> PHIL 2106 - Philosophy of Religion (3) |
| <input type="checkbox"/> ENGL 2107 - Mythology (3) | <input type="checkbox"/> HUMT 1105 - Humanities thru Arts (3) | |
| <input type="checkbox"/> ENGL 2109 - British Literature I (3) | <input type="checkbox"/> PHIL 1101 - Intro to Philosophy (3) | |
| FINE ARTS | <input type="checkbox"/> HUMT 1104 - Introduction to Film (3) | <input type="checkbox"/> MUSI 1110 - Intro to American Music (3) |
| <input type="checkbox"/> ART 1101 - Art Appreciation (3) | <input type="checkbox"/> MUSI 1100 - Music Appreciation (3) | <input type="checkbox"/> THEA 1106 - Theatre Appreciation (3) |

*This course meets the requirement for this section and Section VI/Multiculturalism.

V. COMMUNICATIONS – Required 3 courses (9 hrs.)

Required: Two-course sequence in writing (with grade of "C" or better) (6 hrs.); one course in oral communications

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|--|--|
| <input type="checkbox"/> COMM 1101 - Principles of Eff. Speaking (3) | <input type="checkbox"/> ENGL 1102 - Rhetoric and Comp. II (3) |
| <input type="checkbox"/> ENGL 1101 - Rhetoric and Comp. I (3) | |

VI. REND LAKE COLLEGE REQUIREMENTS

FIRST-YEAR EXPERIENCE

- ORIE 1101 - Orientation (1.5) - Required during first semester for degree-seeking students

MULTICULTURALISM (Choose 1 Course)

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|--|---|---|
| <input type="checkbox"/> ANTH 1101 - Cultural Anthropology (3)* | <input type="checkbox"/> GEOG 1101 - Introduction to Geography (3)* | <input type="checkbox"/> PHIL 2103 - World Religion (3)** |
| <input type="checkbox"/> COMM 1106 - Intercultural Communication (3) | <input type="checkbox"/> HIST 2106 - Black American History (3)*** | <input type="checkbox"/> PHIL 2105 - Non-Western Philosophy (3)** |
| <input type="checkbox"/> EDUC 1107 - Diversity in Education (3)*** | <input type="checkbox"/> HIST 2107 - Latin American History (3)* | |

* Also meets requirement for Section I/Social and Behavioral Sciences | ** Also meets requirement for Section IV/Humanities & Fine Arts

VII. DEFICIENCIES *No single course can be used to fulfill more than one requirement.*

Total Hours I through VI _____

56 Hrs. 2nd Digit "1" _____

OK Graduation? Yes No

No single course can be used to fulfill more than one requirement, with the exception of Multiculturalism (Section VI).