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.)		
ANTH 1101 - Cultural Anthropology (3)* ECON 1101 - Intro to Economics (3) ECON 2101 - Principles of Economics I (3) ECON 2102 - Principles of Economics II (3) GEOG 1101 - Introduction to Geography (3)* HIST 1101 - Western Civilization I (3)	HIST 1102 - Western Civilization II (3) HIST 2101 - American History I (3) HIST 2102 - American History II (3) HIST 2107 - Latin American History (3)* POLI 1101 - State / Local Government (3) POLI 2101 - American Government (3)	PSYC 2101 - Intro to Psychology (3) PSYC 2102 - Child Psychology (3) PSYC 2105 - Social Psychology (3) SOCI 1101 - Intro to Sociology (3) SOCI 2101 - Social Problems (3) SOCI 2102 - Marriage and Family (3)
*This course meets the requirement for this section	on and Section VI/Multiculturalism.	
II. MATHEMATICS – Required 4 courses (17 hrs.)		
MATH 1121 - Calculus/An. Geometry I (5) MATH 2122 - Calculus/An. Geometry II (5)	MATH 2123 - Calculus/An. Geometry III (4) 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		
PHYSICAL SCIENCES (15 hours)	PHY 1103 - University Physics I (5)	COMPUTER PROGRAMMING (3 hours)
CHE 1103 - Inorganic Chemistry (5)	PHY 1104 - University Physics II (5)	CSCI 1104 - Intro to Programming (4)
LIFE SCIENCES BIO 1100 - Biology for Non-Majors (4) BIO 1101 - College Biology (5) BIO 1102 - Environmental Ecology (4)	BIO 1104 – College Biology II (5) BOT 1101 - General Botany (4) MICR 1111 - Microbiology (4)	ZOO 1101 - General Zoology (4)
ENGINEERING SPECIALTIES (6-15 hours) Chemical Engineering CHE 1104-Q.A./Inorganic Chemistry (5) CHE 2120 - Organic Chemistry I (5) CHE 2121 - Organic Chemistry II (5)	Civil Engineering ENGG 1101 - Engineering Graphics (4) PHY 2101 - Statics (3) PHY 2102 - Dynamics (3)	Electrical Engineering PHY 2121 - Electrical Eng. Circuits (4)
IV. HUMANITIES AND FINE ARTS	S - Required 1 course (3 hrs.)	
Required: One course selected from either Humanities or Fine Arts		
HUMANITIES ENGL 2101 - Classical Literature (3) ENGL 2102 - Intro to Literature (3) ENGL 2104 - The Short Story (3) ENGL 2105 - Introduction to Poetry (3) ENGL 2107 - Mythology (3) ENGL 2109 - British Literature I (3)	ENGL 2110 - British Literature II (3) ENGL 2111 - American Lit to 1865 (3) ENGL 2112 - American Lit 1865-Present (3) ENGL 2113 - Intro to Drama (3) ENGL 2114 - The Novel (3) HUMT 1105 - Humanities thru Arts (3) PHIL 1101 - Intro to Philosophy (3)	PHIL 2101 - Logic (3) PHIL 2103 - World Religion (3)* PHIL 2104 - Ethics (3) PHIL 2105 - Non-Western Philosophy (3)* PHIL 2106 - Philosophy of Religion (3)
FINE ARTS ART 1101 - Art Appreciation (3) *This course meets the requirement for this section	HUMT 1104 - Introduction to Film (3) MUSI 1100 - Music Appreciation (3) on and Section VI/Multiculturalism.	MUSI 1110 - Intro to American Music (3) THEA 1106 - Theatre Appreciation (3)
V. COMMUNICATIONS – Required 3 courses (9 hrs.)		
Required: Two-course sequence in writing	g (with grade of "C" or better) (6 hrs.); one coul	rse in oral communications
COMM 1101 - Principles of Eff. Speaking (3)	ENGL 1101 - Rhetoric and Comp. I (3)	ENGL 1102 - Rhetoric and Comp. II (3)
VI. REND LAKE COLLEGE REQUIREMENTS		
FIRST-YEAR EXPERIENCE ORIE 1101 - Orientation (1.5) - Required during firsts	semester for degree-seeking students	
MULTICULTURALISM (Choose 1 Course) ANTH 1101 - Cultural Anthropology (3)* COMM 1106 - Intercultural Communication (3) EDUC 1107 - Diversity in Education (3)***	GEOG 1101 – Introduction to Geography (3)* HIST 2106 - Black American History (3)*** HIST 2107 – Latin American History (3)*	PHIL 2103 – World Religion (3)** PHIL 2105 – Non-Western Philosophy (3)**
* Also meets requirement for Section I/Social and	Behavioral Sciences ** Also meets requirement for	r Section IV/Humanities & Fine Arts
VII. DEFICIENCIES		Total Hours I through VI
		OK Graduation? Yes □ No □
No single course can be used to fulfill more than one requirement, with the exception of Multiculturalism (Section VI).		