

## Pathway - Electrical Engineering

### Rend Lake College Associate Engineering Science Degree

#### Fall Year 1

RLC Course		Hours
ENGL 1101	Rhetoric and Composition I	3
CHE 1103	Inorganic Chemistry	5
MATH 1121	Calculus and Analytic Geometry I	5
Fine Arts	ART 1101, MUSI 1100, or THEA 1106	3
ORIE 1101	Orientation	1.5
<b>Total</b>		<b>17.5</b>

#### Spring Year 1

RLC Course		Hours
ENGL 1102	Rhetoric and Composition II	3
PHY 1103	University Physics I	5
MATH 2122	Calculus and Analytic Geometry II	5
<b>Total</b>		<b>13</b>

#### Fall Year 2

RLC Course		Hours
CSCI 1103	Introduction to Programming	3
PHY 1104	University Physics II	5
MATH 2123	Calculus and Analytic Geometry III	4
ECON 2101	Principles of Economics I	3
<b>Total</b>		<b>15</b>

#### Spring Year 2

RLC Course		Hours
Social Science	HIST 2101, HIST 2102 or SOCI 1101	3
PHY 2121	Electrical Engineering Circuits	4
MATH 2130	Differential Equations	3
COMM 1101	Principles of Effective Speaking	3
BIO 1100	Biology for Non-Majors	3
<b>Total</b>		<b>16</b>

**Associate in Engineering Total                    61.5**

### Southern Illinois University Edwardsville Bachelor Degree

#### Summer Year 3

SIUE Course		Hours
ECE 211	Circuit Analysis II	3
<b>Total</b>		<b>3</b>

#### Fall Year 3

SIUE Course		Hours
ECE 282	Digital Systems Design	4
ECE 326	Electronic Circuits I	3
ECE 351	Signals and Systems	3
ECE 352	Stochastic Processes	3
MATH 355	Engineering Mathematics	5
<b>Total</b>		<b>18</b>

#### Spring Year 3

SIUE Course		Hours
ECE 340	Engineering Electromagnetics	3
ECE 365	Control Systems	3
ECE 375	Intro to Communications	3
XXX	Non-ECE Tech Elective	3
EH <sup>1</sup>	Health Experience	2
BICS	Breadth Infor, Comm & Society	3
<b>Total</b>		<b>17</b>

#### Fall Year 4

SIUE Course		Hours
ECE 341	Electromechanical Energy Conv	3
ECE 404	ECE Design	3
ECE/CS XXX	Elective	3
ECE/CS XXX	Elective	3
PHIL 323	Engr. Ethics & Professionalism	3
IE 106	Engineering Problem Solving	3
<b>Total</b>		<b>18</b>

#### Spring Year 4

SIUE Course		Hours
ECE 405	ECE Senior Design II	3
ECE/CS XXX	Elective	3
ECE/CS XXX	Elective	3
IE 345	Engineering Economic Analysis	3
IS/EGC	Interdisciplinary Course	3
<b>Total</b>		<b>15</b>

**Bachelor of Science Total    132.5**

\*\* Students must complete 50% or more of SIUE degree requirements at SIUE (120 hours required for graduation).

<sup>1</sup>Non-credit experiences available. See advisor.