

## Pathway - Computer Engineering

### Lincoln Land Community College Associate in Science Degree

#### Fall Year 1

LLCC Course		Hours
EGL 101	Composition I	3
CHE 101	General Chemistry I	4
ECO 132	Principles of Economics II (Macro)	3
MAT 131	Calculus & Analytic Geometry I	5
IAI Fine Arts	IAI Fine Arts	3
<b>Total</b>		<b>18</b>

#### Spring Year 1

LLCC Course		Hours
EGL 102	Composition II	3
CMN 101	Public Speaking Fundamentals	3
MAT 132	Calculus & Analytic Geom II	5
PHY 201	Physics I	4
<b>Total</b>		<b>15</b>

#### Fall Year 2

LLCC Course		Hours
PHY 202	Physics II	4
MAT 233	Calculus & Analytic Geom III	4
CSC 170 <sup>1</sup>	Computer Science I	3
IAI HUMN	IAI Humanities	3
IAI S/B Science	IAI Social Behavioral Science	3
<b>Total</b>		<b>17</b>

#### Spring Year 2

LLCC Course		Hours
CSC 270	Computer Science II	3
MAT 220	Discrete Structures	3
MAT 235	Differential Equations	4
BIO 101/111	Gen. Biology/Prin. of Biology	4
ENG 270	Circuit Analysis	3
<b>Total</b>		<b>17</b>

**Associate in Science Total** **67**

**Accepted Hours for Bachelor degree** **60**

<sup>1</sup>See LLCC success coach in first semester to determine proper sequencing of prerequisites required for CSC 170.

### Southern Illinois University Edwardsville Bachelor of Science Degree

#### Summer Year 3

SIUE Course		Hours
ECE 211	Circuit Analysis II	4
<b>Total</b>		<b>4</b>

#### Fall Year 3

SIUE Course		Hours
ECE 282	Digital System Designs	4
ECE 326	Electronic Circuits I	4
ECE 352	Engineering Probability and Statistics	3
CS 240	Intro to Computing III	3
CS 286	Intro to Comp Org & Architecture	3
<b>Total</b>		<b>17</b>

#### Spring Year 3

SIUE Course		Hours
ECE 351	Signals and Systems	3
ECE 381	Microcontrollers	3
ECE 483	Advanced Digital System Engineering	3
ECE/CS XXX	Elective I	3
<b>Total</b>		<b>12</b>

#### Fall Year 4

SIUE Course		Hours
CS 314	Operating Systems	3
ECE 404	ECE Senior Design I	3
ECE/CS XXX	Elective II	3
BICS	Breadth Info. Comm. in Soc.	3
PHIL 323	Engineering Ethics	3
<b>Total</b>		<b>15</b>

#### Spring Year 4

SIUE Course		Hours
ECE 405	ECE Senior Design II	3
ECE/CS XXX	Elective III	3
IE 345	Engineering Economics Analysis	3
CS 340	Algorithms and Data Structures	3
IS	Interdisciplinary Studies	3
<b>Total</b>		<b>15</b>

**Bachelor of Science Degree Total** **130**

\*Students must complete 50% or more of the degree requirements at SIUE.

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NOTE: Students must apply for admission to upper-division classes before starting the junior year at SIUE. The form for 'APPLICATION FOR ADMISSION TO UPPER-DIVISION' must be submitted by the deadline to the academic advisor in the School of Engineering at SIUE.

Students must earn 60 hours from a senior institution for graduation requirements. If students take all SIUE junior and senior level courses, stated above, at SIUE, they will meet this requirement. Please note: deviating from the planned schedule above may jeopardize this requirement.

A course that satisfies both the ERGU and EREG requirement will only be counted as one and not both.

**School of Engineering Transfer Credit Advisory Note:** *The University may accept transfer "D" grades; however, in the School of Engineering, a grade of C or better is required in all chemistry, computer science, mathematics, physics, and engineering courses applied to major or minor requirements. A course that transfers in as 1xx, 2xx, 3xx or TRF 1xx; TRF 2xx; TRF 3xx may require a course description and/or syllabus for further evaluation.*