

## Pathway - Computer Engineering

### College of DuPage Associate in Engineering Science Fall Year 1

COD Course	Hours
MATH 2231    Calculus & Analytic Geometry I	5
CHEM 1551    Principles of Chemistry	5
ENGL 1101    English Composition I	3
ENGIN 2213    Introduction to Digital Systems	3
<b>Total</b>	<b>16</b>

### Spring Year 1

COD Course	Hours
MATH 2232    Calculus & Analytic Geometry II	5
PHYS 2111    Physics for Science & Engineer I	5
ENGL 1102    English Composition II	3
CIS 1400    Programming Logic & Technique	3
<b>Total</b>	<b>16</b>

### Fall Year 2

COD Course	Hours
MATH 2233    Calculus & Analytic Geometry III	4
PHYS 2112    Physics for Science & Engineer II	5
CIS 2541    C++ Language Programming	4
IAI LS    IAI Life Science	3
<b>Total</b>	<b>16</b>

### Spring Year 2

COD Course	Hours
MATH 2270    Differential Equations	4
ENGIN 2223    Microcontrollers	4
ENGIN 2210    Circuit Analysis I	4
SPEEC 1160    Interpersonal Communication	3
ECONO 2201    Macroeconomics & Global Economy	3
<b>Total</b>	<b>18</b>

**Associate in Engineering Science Degree Total    66**

### Southern Illinois University Edwardsville Bachelor of Science Degree Summer Year 3

SIUE Course	Hours
ECE 211    Circuit Analysis II	4
CS 150    Intro to Computing II	3
<b>Total</b>	<b>7</b>

### Fall Year 3

SIUE Course	Hours
ECE 351    Signals and Systems	3
ECE 352    Stochastic Processes	3
CS 240    Intro to Computing III	3
ECE 326    Electronic Circuits I	3
BFPA    Breadth Fine & Performing Arts	3
<b>Total</b>	<b>15</b>

### Spring Year 3

SIUE Course	Hours
ECE 381    Microcontrollers	3
ECE 483    Adv. Digital Systems Engr.	3
ECE/CS XXX    Elective I	3
CS 286    Intro to Computer Org.	3
MATH 224    Discrete Math	3
<b>Total</b>	<b>15</b>

### Fall Year 4

SIUE Course	Hours
ECE 404    ECE Design	3
CS 314    Operating Systems	3
ECE/CS XXX    Elective II	3
PHIL 323    Engineering, Ethics & Professionalism	3
BICS/ERGU    Breath Info. Comm. In Soc./ERGU	3
EH    Health Experience	0-2
<b>Total</b>	<b>15</b>

### Spring Year 4

SIUE Course	Hours
ECE 405    ECE Design Laboratory	3
ECE/CS XXX    Elective III	3
CS 340    Algorithms Data Structures	3
IE 345    Engineering Economics	3
IS/EREG    IS/EREG	3
<b>Total</b>	<b>15</b>

**Bachelor of Science Degree Total    133**

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

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School of Engineering Transfer Credit Advisory Notes:

NOTE: Student must apply for admission to upper-division classes before starting their 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, as stated above, at SIUE, they will meet this requirement. Please note: deviating from the planned schedule above may jeopardize this requirement.

SIUE 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 as 1XX, 2XX, 3XX or TRF 1XX, TRF 2XX, TRF 3XX may require a course description and/or syllabus for further evaluation.

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

Interdisciplinary Studies (IS) Courses must be taken at the junior/senior level class standing. This requirement is not waived with completion of transfer associate degree or IAI-GECC. It is recommended that students choose a course to meet this general education requirement AND Global Culture Race and Equity Experience (EREG). Please see the SIUE advisor for a current list of course options.