

## PARTNERSHIP AGREEMENT

This Partnership Agreement ("Agreement") is effective as of the date of the last party to sign below and is between the **Board of Trustees of Southern Illinois University**, a body politic and corporate of the State of Illinois, governing Southern Illinois University Edwardsville, including its School of Engineering, ("STTJE") and Rend Lake College ("RLC"), an Illinois public community college organized and existing under the laws of the State of Illinois.

WHEREAS, SIUE and RLC share a common pride with high quality educational programs and offering curricula that combine various disciplines in arts and sciences with programs that prepare students for careers in various fields; and

WHEREAS, SIUE and RLC desire to enter into this Agreement to establish a Pathway Engineering Transfer Program to increase opportunities for student access to and success in Engineering education by mutually agreeing to clarify transfer policies and procedures that assure articulation between programs and to assist students in making a seamless transfer of RLC course work to SIUE for the completion of the baccalaureate degree in Engineering;

NOW THEREFORE, in consideration of the mutual covenants and promises contained herein, the parties agree as follows:

- I. **Purpose** - The purpose of the Pathway Engineering Transfer Program is for students to be able to obtain a bachelor degree in Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, Mechanical Engineering or Mechatronics & Robotics Engineering by attending RLC and then attending SIUE. Upon completion of the curricula requirements agreed upon by both parties, students will qualify for an Associate in Engineering Science degree from RLC and a Bachelor of Science degree in the appropriate discipline from SIUE. Sample curricula outlining how a typical student would be able to satisfy the requirements in each of the listed disciplines are attached to this Agreement. The parties agree to inform each other of any future curriculum changes so that the basic agreement between the parties remains in force as curriculum changes occur at either school.
- II. **Policies and Procedures for Operation of the Pathway Engineering Transfer Program**
  - A. Student Admissions Eligibility
    1. Students are required to submit an Application for Admission to SIUE. Students are encouraged to submit the application as soon as they have identified an interest in the Pathway Engineering Transfer Program.
    2. Students are admissible to SIUE after having completed a minimum of 30 semester hours at RLC with a minimum cumulative GPA of 2.0.
    3. The SIUE catalog will be in effect from the term of provisional admission throughout continuous enrollment and timely completion of degree requirements. Students failing to complete requirements within the timeline established by SIUE policy may be subject to new

and/or revised requirements.

4. Students who are satisfactorily completing the RLC part of the agreed upon curriculum will be admitted directly to their intended major in SIUE following formal admission to SIUE.

B. Student Matriculation Eligibility

1. While students will be admitted upon acceptance of the application and completion of SIUE admission standards, they will be prevented from matriculating at SIUE until completion of RLC curricula. The curricula standards, which are agreed upon, by both SIUE and RLC are attached to this Agreement. The outlined curricula will be the standard for determining successful completion for matriculation.
2. Prior to the student's anticipated entry to SIUE, SIUE will review the student's academic progress to ensure that matriculation requirements of SIUE for the Pathway Engineering Transfer Program have been satisfied. Students meeting requirements will be eligible to enroll at that time.

C. Academic Standing & Retention

Once admitted to SIUE, students must maintain a cumulative GPA of 2.0 to remain in good academic standing. Upon matriculation, students will be subject to standard retention requirements applied to all SIUE students.

D. Transfer of Coursework

Upon receipt of official transcripts from RLC, SIUE will record all transfer credit to the student's record as articulated.

**III. SIUE Responsibilities**

- A. Designate a contact person to handle all communication with RLC that relates to the administration of the Pathway Engineering Transfer Program.
- B. Each semester, provide RLC with a list of RLC students enrolled in the Pathway Engineering Transfer Program.
- C. At the completion of the SIUE curricula, provide RLC Office of the Registrar with official transcripts of SIUE students enrolled in the Pathway Engineering Transfer Program.
- D. Inform RLC of any current and planned changes to the curriculum that may impact the operation of the Pathway Engineering Transfer Program.
- E. Consult with, and obtain approval of, the RLC Office of Marketing and Communications prior to using RLC name and/or logo in any recruitment materials for the Pathway Engineering Transfer Program.

IV. **Rend Lake College Responsibilities**

- A. Designate a contact person to handle all communication with SIUE that relates to the administration of the Pathway Engineering Transfer Program.
- B. At the completion of each semester, provide SIUE's Office of the Registrar with official transcripts of students enrolled in the Pathway Engineering Transfer Program.
- C. Inform SIUE of any current and planned changes to the curriculum that may impact the operation of the Pathway Engineering Transfer Program.
- D. Consult with, and obtain the approval of the SIUE Office of Marketing and Communications prior to using the SIUE name and/or logo in any recruitment materials for the Pathway Engineering Transfer Program.

V. **Term** - The term of this Agreement shall begin on August 1, 2019 to July 31, 2024. Thereafter, this Agreement shall automatically renew for successive twelve (12) month periods unless terminated by either party with or without cause, with 120 days prior written notice to the other party. Termination, however, will not be effective without a negotiated phase-down agreement for students currently enrolled.

VI. **Relationship of the Parties** - The parties agree that they are independent contractors, and that nothing contained in this Agreement is to be construed as making the parties partners or joint venturers. For purposes of the subject matter of this Agreement, the employees, officers and agents of one party shall not be employees, officers, or agents of the other party and may not hold themselves as such nor may they make any representations or commitments on behalf of the other party. Both parties, however, through their employees, officers, and agents, may represent such matters and understandings as are contained in this Agreement.

VII. **Notices** - All notices pursuant to this Agreement shall be made in writing and will be deposited in the United States mail, postage prepaid, addressed to the following designated representatives for each party or emails sent via institutional email servers. Each entity may designate a new representative for the purpose of this Agreement by providing notice to the other.

**Southern Illinois University Edwardsville**

Transfer Coordinator  
SIUE- Rendleman 1207  
Edwardsville, IL 62026  
618-650-2838  
[transfercoordinator@siue.edu](mailto:transfercoordinator@siue.edu)

**Rend Lake College**

Andrea Banach  
468 N. Ken Gray Parkway  
Ina, IL 62846  
618-437-5321  
[banacha@rlc.edu](mailto:banacha@rlc.edu)

**With a copy to:**

Southern Illinois University Edwardsville  
Attn: Associate General Counsel  
Campus Box 1019  
Edwardsville, IL 62026  
[contracts@siue.edu](mailto:contracts@siue.edu)

**VIII. Mutual Understandings**

- A. Compliance - Performance pursuant to this Agreement shall comply with all federal, state, and local laws, regulations, ordinances, and orders. Further, each party shall be governed by the applicable and mandatory policies, procedures, and regulations established by their governing bodies, any accrediting bodies, and any other agency with oversight obligations in the implementation and interpretation of this Agreement.
- B. Non-Discrimination - The parties agree that neither party shall, in the performance of this Agreement, discriminate against any individual on the basis of race, religion, sex, sexual orientation, creed, marital status, national origin, physical or mental disability unrelated to ability, or unfavorable discharge from military service not including dishonorable discharge.
- C. Program Promotion - Each party shall advertise the program that is the subject of this Agreement so that it is disseminated to prospective and existing students by reasonable means, which may include, but is not limited to, the Internet, student catalogs, view books, program brochures, and other advertising. Advertising copy for the Pathway Engineering Transfer Program shall be reviewed and approved in writing by each party prior to publication. Each party shall have a royalty-free, non-transferrable, limited, non-exclusive right to use the name, trademarks, and logos of the other party solely in the advertising for the Pathway Engineering Transfer Program during the term of this Agreement. Upon expiration or termination of this Agreement, the parties shall cease and desist from using the other party's name, trademarks or logos in any manner.
- D. Cooperation - Each party shall encourage and maintain a high degree of cooperation between their support staffs in the operation of this Agreement.
- E. Waiver - Waiver by either party of any term or provision of this Agreement shall not constitute a waiver of any other terms or provisions. To be effective, any waiver, change, discharge or termination of any provision of this Agreement shall be in writing signed by both parties.
- F. Confidentiality of Student Education Records - Each party shall comply fully with all provisions of the Family Education Rights and Privacy Act (FERPA) in performance of obligations pursuant to this Agreement. Subject to FERPA, the parties shall share student records to the extent necessary to operate the Pathway Engineering Transfer Program and shall protect such records from unauthorized disclosure.

- G. Applicable Law - Questions of validity, execution, construction, and interpretation which may arise hereunder shall be governed by the laws of the state of Illinois without reference to conflict of law principles. The parties agree that jurisdiction and venue for any legal controversy arising hereunder shall lie exclusively in the Illinois Court of Claims.
- H. Severability - If any clause or provision of this Agreement, or the application of any clause to a particular context or to a particular situation, circumstance or person, should be held unenforceable, invalid or in violation of law by any court, the validity and enforceability of the enforceable portion of any such provision and/or the remaining provisions shall not be affected thereby.
- I. Amendments - This Agreement may be amended only by written addendum signed by both parties.
- J. Entire Agreement - This Agreement and its attachments constitute the entire agreement between the parties pertaining to the Pathway Engineering Transfer Program and supersedes all prior written or verbal agreements between the parties.
- K. Counterparts - This Agreement may be signed in counterparts, each and every one of which shall be deemed an original, notwithstanding variations in format or file designations, which may result from the electronic transmission, storage and printing of copies of this Agreement from separate computers or printers. Facsimile and electronic signatures shall be treated as original signatures.

IN WITNESS WHEREOF, each party is signing this Agreement on the date stated below that party's signature.

BOARD OF TRUSTEES OF  
SOUTHERN ILLINOIS UNIVERSITY

By: 

Denise Cobb, Provost and Vice Chancellor  
for Academic Affairs  
Southern Illinois University Edwardsville

Date: 7-21-JCf

BOARD OF TRUSTEES OF  
REND LAKE COLLEGE

By: 

Terry Wilkerson, President  
Rend Lake College

Reco ed

By  Dean

Andrea Banach, Dean

School of Engineering  
Southern Illinois University Edwardsville

Math & Science  
Rend Lake College

Date: \_\_\_\_\_

Date: t1.-} 9

Reviewed by OCG 5/31/19

*[Faint, illegible text, likely bleed-through from the reverse side of the page]*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Date: 8/7/19  
By: Cynthia Bonach  
\_\_\_\_\_

# EoWARDSYILiE

## Civil Engineering

Rend Lake College

Southern Illinois University Edwardsville

### 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
<b>Total</b>		<b>17.5</b>

#### Spring Year 1

RLC Course		Hours
ENGL 1102	Rhetoric and Composition I	3
PHY 1103	University Physics I	5
MATH 2122	Calculus and Analytic Geometry II	5
ENGG 1101	Engineering Graphics	4
<b>Total</b>		<b>17</b>

#### Fall Year 2

RLC Course		Hours
CSCI 1103	Introduction to Programming	3
PHY 1104	University Physics II	5
PHY 2101	Statics	3
MATH 2123	Calculus and Analytic Geometry III	4
ECON 2101	Principles of Economics I	3
<b>Total</b>		<b>18</b>

#### Spring Year 2

RLC Course		Hours
Social Science	HIST 2101, HIST 2102 or SOCI 1101	3
PHY 2102	Dynamics	3
MATH 2130	Differential Equations	3
BIO 1100 <sup>2</sup>	Biology for Non-Majors	4

### Bachelor Degree

#### Summer Year 3

SIUE Course		Hours
CE 242	Mechanics of Solids	3
<b>Total</b>		<b>3</b>

#### Fall Year 3

SIUE Course		Hours
CE 206	Civil Engineering Surveying	2
CE 315	Fluid Mechanics	3
CE 342	Structural Engineering	3
STAT 380	Statistics for Application	3
EH <sup>1</sup>	Health Experience	2
IE 106	Engineering Problem Solving	3
<b>Total</b>		<b>16</b>

#### Spring Year 3

SIUE Course		Hours
CE 330	Engineering Materials	2
CE 330L	Engineering Materials Lab	1
CE 343	Structural Engineering II	3
CE 376	Transportation Engineering	3
CE 380	Environmental Engineering	3
PHIL 323	Engr. Ethics & Professionalism	3
<b>Total</b>		<b>15</b>

#### Fall Year 4

SIUE Course		Hours
CE 354	Geotechnical Engineering	3
CE 354L	Geotechnical Engineering Lab	1
CE 460	Municipal Infrastructure Design	3
CE 416	Hydrology (Fall)	3
COMM 1101	Principles of Effective Speaking	3

CE 459/CE 455	Soil Improv. (Fall)/Foundations (Sp)	3
CE XXX	CE Elective	3
CE XXX	CE Selective	3
<b>Total</b>		<b>16</b>

Prep. for Fundamental of Engr. Exam 0

**Total 19**

**Spring Year 4**

**Associate in Engineering Degree Total 68.5**

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

<sup>2</sup>Preferred

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

SIUE Course	Hours
CE 415L Applied Fluids Lab	1
<del>CE 493 Engineering Design</del>	<del>3</del>
CE XXX CE Elective	3
CE XXX CE Elective	3
IS/EGC Interdisciplinary Course	3
IE 345 Engineering Economic Analysis	3
<b>Total</b>	<b>16</b>

**Bachelor of Science Total 137.5**

www.siu.edu

Transfer Center  
618-650-2133  
transfercredit@siue.edu

3/19/19  
2019-2020

\*\*



# EDWXRDS,rirLE

## Computer 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	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
ENGG 1101	Graphics	4
<b>Total</b>		<b>17</b>

### Fall Year 2

RLC Course		Hours
CSCI 1104	Introduction to Programming	3
PHY 1104	University Physics II	5
HEA 1101	Health Education	2
MATH 2123	Calculus and Analytic Geometry III	4
ECON 2101	Principles of Economics I	3
<b>Total</b>		<b>17</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

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

SIUE Course		Hours
CS 150	Intro to Computing II	3
ECE 211	Circuit Analysis II	3
<b>Total</b>		<b>6</b>

### Fall Year 3

SIUE Course		Hours
ECE 282	Digital Systems Design	4
ECE 351	Signals and Systems	3
ECE 352	Stochastic Processes	3
CS 240	Intro to Computing III	3
CS 286	Intro to Comp. Org. & Architecture	3
<b>Total</b>		<b>16</b>

### Spring Year 3

SIUE Course		Hours
ECE 326	Electronic Circuits I	4
ECE 483	Adv. Digital Systems Engr.	3
ECE 381	Microcontrollers	3
MATH 224	Discrete Mathematics	2
BICS	Breadth Infor, Comm & Society	3
<b>Total</b>		<b>15</b>

### Fall Year 4

SIUE Course		Hours
ECE 404	ECE Design	3
ECE/CS XXX	Elective	3
CS 314	Operating Systems	3
IE 345	Engineering Economic Analysis	3
PHIL 323	Engr. Ethics & Professionalism	3
IE 106	Engineering Problem Solving	3
<b>Total</b>		<b>18</b>

### Spring Year 4

**Total 16**

**Associate in Engineering Total 67.5**

ECE 405	ECE Senior Design II	3
ECE/CS XXX	Elective	3
ECE/CS XXX	Elective	3
CS 340	Algorithms & Data Structures	3
IS/EGC	Interdisciplinary Course	3
<b>Total</b>		<b>15</b>

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

**Bachelor of Science Total 137.5**

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

[www.siu.edu](http://www.siu.edu)

Transfer Center  
618-650-2133  
transfercredit@siue.edu

3/19/19  
2019-2020

\*\*

# EDWARDSVILLE

## Electrical Engineering

Rend Lake College

Southern Illinois University Edwardsville

### 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
ENGG 1101 <sup>1</sup>	Engineering Graphics	4
<b>Total</b>		<b>17</b>

#### Fall Year 2

RLC Course		Hours
CSCI 1103	Introduction to Programming	3
PHY 1104	University Physics II	5
PHY 2101 <sup>1</sup>	Statics	3
MATH 2123	Calculus and Analytic Geometry III	4
ECON 2101	Principles of Economics I	3
<b>Total</b>		<b>18</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 <sup>2</sup>	Biology for Non-Majors	4
<b>Total</b>		<b>17</b>

### 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>3</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

Total

15

<sup>1</sup>Required for AES degree.

<sup>2</sup>Preferred

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

www.siu.edu

**Bachelor of Science Total**

**140.5**

<sup>3</sup>Non-credit experiences available. See advisor.

Transfer Center  
618-650-2133  
transfercredit@siue.edu

3/19/19  
2019-2020

\*\*

# EoWARDSViriE

## Industrial 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	5
Fine Arts ART 1101, MUSI 1100, or THEA 1106	3
ORIE 1101 Orientation	1
<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
---	---

ENGG 1101 Graphics	4
<b>Total</b>	<b>17</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
PHY 2101 Statics	3
ECON 2101 Principles of Economics I	3
<b>Total</b>	<b>18</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
<b>Total</b>	<b>13</b>

**Associate in Engineering Total 65.5**

### Southern Illinois University Edwardsville Bachelor Degree

#### Summer Year 3

SIUE Course	Hours
CE 242 Mechanics of Solids	3
<b>Total</b>	<b>3</b>

#### Fall Year 3

SIUE Course	Hours
IE 335 Intro to Information Process	3
IE 345 Engineering Economic Analysis	3
STAT 380 Statistics for Application	3
IE 370 Manufacturing Processes	3

IE 375 3-D Modeling in Design	3
<b>Total</b>	<b>15</b>

#### Spring Year 3

SIUE Course	Hours
IE 415 OR Deterministic Models	3
IE 451 Methods Design & Work Areas	3
IE 465 Design & Control of Quality Sys	3
IE 470 Manufacturing Systems	3

BLS Breadth Life Science	3
EH <sup>1</sup> Health Experience	2
<b>Total</b>	<b>17</b>

#### Fall Year 4

SIUE Course	Hours
IE 468 Operations Research	3
IE 476 Plant Wide Process Control	3
IE 483 Production Planning & Control	3
IE 484 Facilities Planning	3
IE XXX Elective	3

IE 106 Engineering Problem Solving	3
<b>Total</b>	<b>18</b>

#### Spring Year 4

SIUE Course	Hours
IE 490 Integrated Engineering Design	3
IE XXX Elective	3
IE XXX Elective	3
PHIL 323 Engr. Ethics & Professionalism	3
IS/EGC Interdisciplinary Course	3
<b>Total</b>	<b>15</b>

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

www.siu.edu/transfer

***Bachelor of Science Total***      **133.5**

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

Transfer  
Center  
618-  
650-  
213  
3  
transfercredit  
@siue.edu

3/19/19  
2019-2020

# EoWARDSYYELE

## Mechanical Engineering

### Rend Lake College Associate Engineering Science Degree Fall Year 1

RLC Course		Hours
ENGL1101	Rhetoric and Composition I	3
CHE1103	Inorganic Chemistry	5
MATH1121	Calculus and Analytic Geometry I	5
Fine Arts	ART1101, MUSI1100 or THEA1106	3
ORIE1101	Orientation	1.5
<b>Total</b>		<b>17.5</b>

### Spring Year 1

RLC Course		Hours
ENGL1102	Rhetoric and Composition II	3
PHY1103	University Physics I	5
MATH2122	Calculus and Analytic Geometry II	5
ENGG1101	Graphics	4
<b>Total</b>		<b>17</b>

### Fall Year 2

RLC Course		Hours
CSCI1103	Introduction to Programming	3
PHY1104	University Physics II	5
MATH2123	Calculus and Analytic Geometry III	4
PHY2101	Statics	3
ECON2101	Principles of Economics I	3
<b>Total</b>		<b>18</b>

### Spring Year 2

RLC Course		Hours
Social Science	HIST2101, HIST2012 or SOCI1101	3
PHY2121	Electrical Engineering Circuits	4
PHY2102	Dynamics	3
MATH2130	Differential Equations	3
COMM1101	Principles of Effective Speaking	3
<b>Total</b>		<b>16</b>

**Associate in Engineering Total 68.5**

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

SIUE Course		Hours
CE242	Mechanics of Solids	3
<b>Total</b>		<b>3</b>

### Fall Year 3

SIUE Course		Hours
ME310	Thermodynamics I	3
ME350	Dynamics of Mechanisms	3
ME354	Numerical Simulation	3
ME370	Materials Engineering	3
STAT380	Statistics for Application	3
<b>Total</b>		<b>15</b>

### Spring Year 3

SIUE Course		Hours
ME312	Thermodynamics II	3
ME315	Fluid Mechanics	3
ME356	Dynamic Systems Modeling	3
ME380	Design of Machine Elements	3
ME380L	Stress Lab	1
IS XXX	Interdisciplinary Course	3
EH <sup>1</sup>	Health Experience	2
<b>Total</b>		<b>18</b>

### Fall Year 4

SIUE Course		Hours
ME410	Heat Transfer	3
ME410L	Thermal Fluid Lab	1
ME482	Mechanical Engineering Design I	2
MEXXX	Elective	3
IE345	Engineering Economic Analysis	3
IE106	Engineering Problem Solving	3
<b>Total</b>		<b>15</b>

### Spring Year 4

SIUE Course		Hours
ME356L	Dynamical Systems Lab	1
ME484	Mechanical Engineering Design II	3
MEXXX	Elective	3

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

requirements at SIUE (120 hours required for graduation).

---

---

**Bachelor of Science Total 135.5**

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

Transfer Center  
618-650-2133

3/19/19

www.siu.edu

transfercredit@siue.edu

2019-2020



# EDWAWSYILIE

## Mechatronics and Robotics Engineering

Rend Lake College

Associate Engineering Science Degree

Fall Year 1

RLC Course		Hours
ENGL1101	Rhetoric and Composition I	3
CHE1103	Inorganic Chemistry	5
MATH1121	Calculus and Analytic Geometry I	5
Fine Arts	ART1101, MUSI1100 or THEA1106	3
ORIE1101	Orientation	1.5
<b>Total</b>		<b>17.5</b>

Spring Year 1

RLC Course		Hours
ENGL1102	Rhetoric and Composition II	3
PHY1103	University Physics I	5
MATH2122	Calculus and Analytic Geometry II	5
<b>Total</b>		<b>13</b>

Fall Year 2

RLC Course		Hours
CSCI1103	Introduction to Programming	3
PHY1104	University Physics II	5
MATH2123	Calculus and Analytic Geometry III	4
PHY2101	Statics	3
ECON2101	Principles of Economics I	3
<b>Total</b>		<b>18</b>

Spring Year 2

RLC Course		Hours
Social Science	HIST2101, HIST2012 or SOCI1101	3
PHY2121	Electrical Engineering Circuits	4
PHY2102	Dynamics	3
MATH2130	Differential Equations	3
COMM1101	Principles of Effective Speaking	3
<b>Total</b>		<b>16</b>

**Associate in Engineering Total 64.5**

Southern Illinois University Edwardsville

Bachelor Degree

Summer Year 3

SIUE Course		Hours
ECE211	Circuit Analysis 11	3
CE242	Mechanics of Solids	3
<b>Total</b>		<b>6</b>

Fall Year 3

SIUE Course		Hours
ECE282	Digital System Design	4
ME356	Dynamic Systems Modeling	3
ME354	Numerical Simulation	1
MRE380	Design of Machine Elements	3
IE106	Engineering Problem Solving	3
MATH321	Linear Algebra	3
<b>Total</b>		<b>17</b>

Spring Year 3

SIUE Course		Hours
MRE358	Introduction of Mechatronics	3
MRE320	Sensors and Actuators	3
ME450	Automatic Control	3
ECE381	Microcontroller	3
PHIL323	Engr. Ethics & Professionalism	3
<b>Total</b>		<b>15</b>

Fall Year 4

SIUE Course		Hours
MRE454	Robotics, Dynamics & Control	3
MRE480	Design in Mechatronics & Robotics I	2
XXX	Technical Elective I	3
IE345	Engineering Economic Analysis	3
EH <sup>1</sup>	Health Experience	2
IS/EGC	Interdisciplinary Course	3
<b>Total</b>		<b>16</b>

Spring Year 4

SIUE Course		Hours
MRE477	Computer-Integ Manufacturing Sys	3
	Technical Elective II	3
MRE481	Design in Mechatronics & Robotics II	2
STAT380	Statistics for Application	3
BLS	Breadth Life Science	3
<b>Total</b>		<b>14</b>

\*\*

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

www.siu.edu

**elor of Science Total**

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

**132.5**

See advisor.

Tra  
nsfe  
r  
Cen  
ter  
618  
-  
650  
-  
213  
3

3/19/19  
2019-2020

transfercredi  
t@siue.edu