John A. Logan College

SIU CARBONDALE

TRANSFER GUIDE

AAS Biomedical Electronics Technology transferring into BS Electrical Engineering Technology

John A Logan College Courses			
AAS Biomedical Electronics Technology – 66 hours			
ORI 100-1	College 101	ELT 151-3	Applied Solid State Circuits
COM 115 or 121	Speech or Adv Public Speaking	ELT 170-3	Biomedical Instrumentation I
ENG 101-3 or 113-3	English Comp I or Prof Tech Writing	ELT 200-3	Intro to Microprocessors
MAT 112 or 113-3	Intro to Contemporary Math	ELT 210-3	A+ Preparation Essentials
PHY 121-3	Technical Physics	ELT 214-3	A+ Preparation IT Technician
ECO 201-3	Macroeconomics	ELT 215-3	IOT and Embedded Systems
ELT 102-4	Basic Electricity & Wiring	ELT 218-3	Intro to Network Technologies
ELT 103-4	Applied DC/AC Circuits	ELT 220-3	Linear Integrated Circuits
ELT 111-3	Digital Electronics I	ELT 250-3	Biomedical Instrumentation II
ELT 112-3	Digital Electronics II	ELT 280-3	Biomedical Instrumentation III
ELT 150-3	Applied Solid State Electronics	HIT 217-3	Medical Terminology I
Southern Illinois University Carbondale Courses			
BS Electrical Engineering Technology (EET) – 82 hours			
Elective-3	Social Science	EET 437A-4	Telecomm System Fundamentals
Elective-3	Humanities	EET 437B-4	Data & Computer Communication
Elective-3	Fine Arts	EET 438A-4	Automatic Control Systems Tech
Elective-3	Multicultural	EET 438B-4	Seq Digital Ctrl & Data Acquisition
Elective-3	Life Science	EET 439-4	Microcontroller App & Design
ENGR 222-2	Comp Methods for Engr & Tech	EET 495A-1	EET Senior Design I
EET 304A-4	AC/DC Circuit Theory & Application	EET 495B-1	EET Senior Design II
EET 304B-4	Network Theory & Application	MATH 111-4	Precalculus I
EET 332A-4	DC Motors, Generators & Energy Conversion Devices	MATH 150-5	Calculus I
		MATH 282-3	Introduction to Statistics
EET 332B-4	AC Electric Machines & Powr Syst	MGMT 202-3	Business Communications
EET 403A-4	Electronic Circuit Analysis	PHYS 203/253B-4	College Physics II/Lab
EET 403B-4	Electronics Application & Design		
Total Hours to Bachelor Degree: 148 Hours			

Salary Range: $55,000-$75,500

Possible Careers:
Electronics Design Engineer
Field Service Engineer
Hardware Engineer
Senior Engineering Technician
Test Engineer

Questions? Contact Us!

John A Logan College
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Baccalaureate Degree Requirements

Each candidate for a bachelor's degree must complete the requirements listed:

Hour Requirements. Student must complete at least 120 semester hrs of credit. Each student must have at least 42 hrs in courses that number 300 or above from a four-year institution.

Residence Requirements. Student must complete the residency requirement by taking a total of 42 semester hrs at SIU Carbondale.

Grade Point Average Requirements. Student must have a C average for all work taken at SIU Carbondale. Some academic programs may require a higher graduating major GPA.

Compact Agreement

SIU Carbondale has recognized Illinois regionally accredited community college transferable baccalaureate-oriented Associate of Arts or Associate of Science degrees under the Compact Agreement since 1970. SIUC will continue to recognize the baccalaureate oriented associate degree (A.A. or A.S. degree) under the Illinois Articulation Initiative as satisfying SIU University Core Curriculum (UCC) requirements. The Associate of Applied Science (A.A.S.), Associate in Engineering Science (A.E.S.), the Associate in General Studies (A.G.S.), and the Associate in Fine Arts (A.F.A.) are not covered under the Compact Agreement and do not carry the same benefits as the A.A. and A.S. degrees.

Saluki Transfer Pathways

Saluki Transfer Pathways is the university's dual admission program that allows baccalaureate-oriented students at eligible community colleges intending to transfer to SIU Carbondale to benefit from early admission and pre-advisement for a baccalaureate program at SIUC. Saluki Transfer Pathways allows students to be conditionally admitted to SIU Carbondale up to two years in advance of their intended transfer term so they have access to transfer credit evaluation and the university's degree audit system. This allows students to address major specific requirements that may not be automatically fulfilled with the completion of an associate degree. Students apply to Saluki Transfer Pathways by completing the Application for Undergraduate Admission and indicating an interest in the program. To participate, students must have at least two semesters remaining at their community college. Direct questions about the Saluki Transfer Pathways program to transfer@siu.edu.

DegreeWorks

DegreeWorks is an easy-to-use, online degree audit tool specifically designed for students. Once admitted to SIU Carbondale, you can use it monitor your progress toward your degree in Salukinet.

Saluki Transfer Estimator Portal (STEP)

The Saluki Transfer Estimator Portal (STEP) is a web-based tool that integrates institutional course equivalency and degree audit data to provide an unofficial credit estimation and a more seamless transfer process. STEP gives transfer students a clear roadmap for timely degree completion by providing key information about how transfer credits apply to your intended program at SIU.

PROGRAM ARTICULATION DEGREE PLAN					
John A. Logan College	***2023-2024***		***Southern Illinois University Carbondale***		
Associate in Applied Science - Biomedical Electronics Technology - 66-67 hrs			BS Electrical Engineering Technology - 120 hrs		
			University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs			**Hrs**
			UNIV 101	Saluki Success	NA
COM 115 or COM 121	Speech or Adv Public Speaking	3	CMST 101	Intro to Oral Communication	T
ENG 101 or ENG 113	English Composition I or Prof Tech Writing	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
MAT 113 or MAT 112	Intro to Contemporary Mathematics	3	MATH 101	Intro Contemporary Math	T
ECO 201	Macroeconomics	3	ECON 241	Intro to Macroeconomics	T
			SOCIAL SCIENCE		3
			HUMANITIES		3
			HUMANITIES		NA
PHY 121	Technical Physics	3	PHYS 203/253A (required)	College Physics	T
			LIFE SCIENCE		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		15			**15**
Program Requirements					
ORI 100	College 101	1	**Program Requirements**		
ELT 102	Basic Electricity and Wiring	4			
ELT 111	Digital Electronics I	3			
ELT 112	Digital Electronics II	3			
ELT 151	Applied Solid State Electronics	3			
ELT 170	Biomedical Instrumentation I	3			
ELT 210	A+ Preparation Essentials	3	**Any course not articulated will be used to satisfy general elective credit.**		
ELT 214	A+ Preparation IT Technician	3			
ELT 215	IOT and Embedded Systems	3			
ELT 218	Intro to Network Technologies	3			
ELT 220	Linear Integrated Circuits	3			
ELT 250	Biomedical Instrumentation II	3			
ELT 280	Biomedical Instrumentation III	3			
ELT 103	Applied DC/AC Currents	4	EET 245 (required)	Introductory Circuit Theory & Applications	T
ELT 150	Applied Solid State Electronics	3	EET 150 (required)	Intro to Electrical Engineering Technology	T
ELT 200	Introduction to Microprocessors	3	EET 238 (required)	Digital System Fundamentals	T
HIT 217	Medical Terminology I	3	AH 105 (elective)	Medical Terminology	T
		51			
			ENGR 222	Computational Methods for Engineers and Techno	2
			MATH 111	Precalculus	4
			MATH 150	Calculus I	5
			MATH 282	Statistics	3
			MGMT 202	Business Communications	3
			PHYS 203B/253B	College Physics/Lab	4
			EET 304A	AC/DC Circuit Theory and Application	4
			EET 304B	AC Network Theory and Application	4
			EET 332A	DC Motors, Generators and Energy Conversion De	4
			EET 332B	AC Electric Machines and Power Systems	4
			EET 403A	Electronic Circuit Analysis	4
			EET 403B	Electronics Application and Design	4
			EET 437A	Telecommunication Systems Fundamentals	4
			EET 437B	Data and Computer Communication	4
			EET 438A	Automatic Control Systems Technology	4
			EET 438B	Sequential Digital Control and Data Acquisition	4
			EET 439	Microcontroller Application and Design	4
			EET 495A	Senior Design I	1
			EET 495B	Senior Design II	1
					67
Total semester hrs completed w/ AAS degree:		**66**	**Total semester hrs completed w/ BS degree:**		**82**
			Total hrs to BS Degree:		**148**
Degree plan updated by SW 6/21/2023					