PROGRAM ARTICULATION DEGREE PLAN

Oakton Community College 2022-2023 — Electronics and Computer Techology (AAS) - 60 hrs

Southern Illinois University Carbondale — BS Industrial Management and Applied Engineering (IMAE) - 120 hrs

University Core Curriculum (UCC) CAPSTONE OPTION - 30 hrs

Oakton Course	Title	Hrs	SIUC Course	Title	Hrs
			UCOL 101	Foundations of Inquiry	NA
EGL 101	Composition I	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
SPE 103	Effective Speech	3	CMST 101	Intro: Oral Communication	T
			MATH 108 (Required for BS degree)	College Algebra	3
	IAI Social Science	3	SOCIAL SCIENCE	*(See SIUC Transfer Equivalency Guide)*	T
			SOCIAL SCIENCE		3
	IAI Humanities	3	HUMANITIES	*(See SIUC Transfer Equivalency Guide)*	T
			HUMANITIES		NA
			LIFE SCIENCE GRP I	Students take 2 Physics courses	NA
			PHYS 203/253A (Required for BS degree)	University Physics/Lab	4
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		12			**16**

Program Requirements

Oakton Course	Title	Hrs	SIUC Course	Title	Hrs
ELT 223	Integrated Cirucits	3	EST 221	Elect Circuit Analysis	T
ELT 231	Fundamentals of Microprocessors	3	ET 238	Digital Fundamentals	T
MAT 114	Applied Mathematics I	3			
MAT 116	Applied Mathematics II	3			
ELT 101	Introduction to Electronics	5			
ELT 106	Semiconductor Theory	3			
ELT 110	Electronic Drafting Using CAD	4	**Any course not articulated will be used to satisfy general credit**		
ELT 130	Microcomputer Hardware Systems	3			
ELT 221	Digital Circuit Fundamentals	3			
ELT 225	Digital Integrated Circuits	3			
CNS 105	Networking Essentials	3			
PHY 101	Applied Physics	4			
MFG 240	Programmable Logic Controllers (PLC)	4			
ELT -or- CNS courses		4			
		48	MATH 140 -or- IMAE 307	Short Course in Calculus -or- Applied Calculus for Tech	3-4
			PHYS 203B/253B	College Physics/Lab	4
			PSYC 323 -or- IMAE 340[+]	Organizational Psychology -or- Introduction to Supervision	3
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Mfg Processes	3
			IMAE 375	Production & Inventory Mgmt	3
			IMAE 390	Cost Estimating	3
			IMAE 392	Facilities Plan/Workplace Design	3
			IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer Integrated Mfg	3
			IMAE 450	Project Management	3
			IMAE 465	Lean Manufacturing	3
			IMAE 470A	Six Sigma Green Belt I	3
			IMAE 470B	Six Sigma Green Belt II	3
			IMAE 476	Supply Chain Management	3
			IMAE Electives	300/400-level	6
					52-55

Total semester hrs completed with AES degree:		**60**	**Total semester hrs completed with BS degree:**		**68-71**
			Total to BS degree:		**128-131**

Degree Plan created by SW 11/22/21

[+]Note: PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite