Academic Map: Associate of Applied Science (AAS) ET: Manufacturing – Industrial and Operations

Associate of Applied Science (A.A.S) | 60 Total Credits | CSN Degree Code: ETMIO-AAS | Catalog Year: 2021-2022 |

Computing and Engineering Technologies   Advanced and Applied Technologies   Department of Applied Technologies

Jobs and Employment Information: https://www.csn.edu/cetarea

DESCRIPTION: Provides students with classroom and laboratory experiences in electricity, mechanical power transfer, pneumatics/hydraulics, ferrous and non-ferrous material properties, and industrial automation.

TERM 1 – TOTAL CREDIT HOURS: 16-18	Credits	Pre-Requisite/Co-Requisite	Area	Min Grade	Milestones and Notes
ENG 100 or ENG 101 or ENG 113	3-5	ACT/SAT/ Placement Score	GE ENG Comp	C	
SP Network Lit Elect -see advisor/counselor	3	*None*	Spec Prog Net Lit	C	
CADD 100 Intro to Computer Aided Drafting	3	*None*	Special Prog Req	C	
CONS 120B Construction Plans and Specs	3	*None*	Special Prog Req	C	
MT 102B Fundamentals of Electricity	4	*None*	Special Prog Req	C	Mandatory Advising Required

TERM 2 – TOTAL CREDIT HOURS: 15-18	Credits	Pre-Requisite/Co-Requisite	Area	Min Grade	Milestones and Notes
MATH 116 Technical Mathematics	3	*None*	GE Math	C	
MT 104B Industrial Electricity	4	MT102B or ET 131B or AC 102B or Inst/Prog	Special Prog Req	C	
MT 106B Mechanical Power Transmission	4	*None*	Special Prog Req	C	
MT 110B Material Science	4	*None*	Special Prog Req	C	
IS 100B or IS101	0-3	*None*	SP Dig Literacy	C	Mandatory Advising Required

TERM 3 – TOTAL CREDIT HOURS: 14	Credits	Pre-Requisite/Co-Requisite	Area	Min Grade	Milestones and Notes
COM 115 Applied Communications	3	*None*	GE Com	C	
FA/HUM/SS Elective – See advisor/counselor	3	*Depends on course chosen*	GE FA/Hum/SS	C	
Spec Prog Elective – see advisor/counselor	2	*Depends on course chosen*	Special Prog Elect	C	
Hum Rel Elect – See advisor/counselor	3	*Depends on course chosen*	GE Hum Relations	C	
MT 115B Programmable Logic Controllers I	3	C or up in AC 102B or ET 131B or MT102B and IS 100B or IS101	Special Prog Req	C	Mandatory Advising Required

TERM 4 – TOTAL CREDIT HOURS: 16	Credits	Pre-Requisite/Co-Requisite	Area	Min Grade	Milestones and Notes
EGG 131 and 131L	4	ET 111B or MATH 116 or up (ex MATH 122/123)	GE Nat Science	C	
PSC 101 Intro to American Politics	4	*None*	US/NV Cons	C	
MT 108B Fluid Power	4	*None*	Special Prog Req	C	
MT 116B Programmable Logic Controllers II	3	C or up in MT 115B	Special Prog Req	C	Apply for Graduation