



Academic Map: Engineering Technology: Manufacturing – Industrial and Operations (AAS)

Associate of Applied Science (A.A.S) | 60 Total Credits | CSN Degree Code: ETMIO-AAS | Catalog Year: 2022-2023 |

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 ENG

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>
ENG 100 or 101 or 107 or 110 or 113	3-5	ACT/SAT/ Placement Score
SP Network Lit Elect -see advisor/counselor	3	None
CADD 100 Intro to Computer Aided Drafting	3	None
CONS 120B Construction Plans and Specs	3	None
MT 102B Fundamentals of Electricity	4	None

<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
GE ENG	C	
Spec Prog Net Lit	C	
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	Mandatory Advising Required

TERM 2 – TOTAL CREDIT HOURS: 15-18

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>
MATH 116 Technical Mathematics	3	None
MT 104B Industrial Electricity	4	MT102B or ET 131B or AC 102B or Inst/Prog
MT 106B Mechanical Power Transmission	4	None
MT 110B Material Science	4	None
IS 100B or IS101 ¹	0-3	None

<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
GE Math	C	
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	
Digital Literacy	C	Mandatory Advising Required

TERM 3 – TOTAL CREDIT HOURS: 14

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>
COM 115 Applied Communications	3	None
FA/HUM/SS Elective – See advisor/counselor	3	Depends on course chosen
Spec Prog Elective – see advisor/counselor	2	Depends on course chosen
Hum Rel Elect – See advisor/counselor	3	Depends on course chosen
MT 115B Programmable Logic Controllers I	3	C or up in AC 102B or ET 131B or MT102B and IS 100B or IS101

<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
GE Com	C	
GE FA/Hum/SS	C	
Special Prog Elect	C	
GE Hum Relations	C	
Special Prog Req	C	Mandatory Advising Required

TERM 4 – TOTAL CREDIT HOURS: 16

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>
EGG 131 and 131L	4	ET 111B or MATH 116 or up (ex MATH 122/123)
PSC 101 Intro to American Politics	4	None
MT 108B Fluid Power	4	None
MT 116B Programmable Logic Controllers II	3	C or up in MT 115B

<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
GE Nat Science	C	
US/NV Cons	C	
Special Prog Req	C	
Special Prog Req	C	Apply for Graduation

¹Students who complete IS 101 will complete a total of 63 credits for this degree.

