



# Academic Map: Air Conditioning Technology – Building Automation (AAS)

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

Industry, Manufacturing, Construction & Transportation Advanced and Applied Technologies Department of Applied Technologies

Jobs and Employment Information: <https://www.csn.edu/imctarea>

DESCRIPTION: This program prepares students to install, service, operate, maintain, and troubleshoot building automation systems in commercial buildings, controlling Heating, Ventilation, and Air Conditioning (HVAC) Systems, energy management systems, as well as lighting and security systems.

## TERM 1 – TOTAL CREDIT HOURS: 16-18

|   | <u>Credits</u> | <u>Pre-Requisite/Co-Requisite</u>                  | <u>Area</u>      | <u>Min Grade</u> | <u>Milestones and Notes</u> |
|---|----------------|--|------------------|------------------|-----------------------------|
| MATH 104B or above (except MATH122/123) | 3              | None   | GE Math          | C                |                             |
| ENG 100 or 101 or 107 or 110 or 113     | 3-5            | ENG Place Score; or C- and up in ENG 98 or ESL 139 | GE ENG Comp      | C                |                             |
| AC 102B Intro to HVAC Elec Theory & App | 5              | None   | Special Prog Req | C                |                             |
| AC 103B Intro to HVAC Mech Theory & App | 5              | None   | Special Prog Req | C                | Mandatory Advising Required |

## TERM 2 – TOTAL CREDIT HOURS: 14

|  | <u>Credits</u> | <u>Pre-Requisite/Co-Requisite</u> | <u>Area</u>      | <u>Min Grade</u> | <u>Milestones and Notes</u> |
|--|----------------|-----------------------------------|------------------|------------------|-----------------------------|
| COM 115 Applied Communications         | 3              | None                              | GE Com           | C                |                             |
| ENV 101 Intro to Environmental Science | 3              | None                              | GE Nat Science   | C                |                             |
| AC 110B Inter HVAC Elec Theory & App   | 5              | AC 102B and AC 103B               | Special Prog Req | C                |                             |
| ALS 101 College Success                | 3              | None                              | GE Human Rel     | C                | Mandatory Advising Required |

## TERM 3 – TOTAL CREDIT HOURS: 15.5 GEOG

|  | <u>Credits</u> | <u>Pre-Requisite/Co-Requisite</u> | <u>Area</u>      | <u>Min Grade</u> | <u>Milestones and Notes</u> |
|--|----------------|-----------------------------------|------------------|------------------|-----------------------------|
| 106 World Geography                      | 3              | None                              | GE FA/Hum/SS     | C                |                             |
| AC 119B Professional Customer Service AC | 1.5            | AC 110B                           | Special Prog Req | C                |                             |
| 201B HVAC Automatic Controls             | 5              | AC 106B and AC 110B               | Special Prog Req | C                |                             |
| CIT 119B Business Data Networks          | 3              | None                              | Special Prog Req | C                |                             |
| MIT 115B Programmable Logic Controllers  | 3              | None                              | Special Prog Req | C                | Mandatory Advising Required |

## TERM 4 – TOTAL CREDIT HOURS: 9

|  | <u>Credits</u> | <u>Pre-Requisite/Co-Requisite</u> | <u>Area</u>      | <u>Min Grade</u> | <u>Milestones and Notes</u> |
|--|----------------|-----------------------------------|------------------|------------------|-----------------------------|
| HIST 100 or PSC 101                      | 4              | None                              | GE US/NV Cons    | C                |                             |
| AC 230B Building Automation Fundamentals | 5              | AC 201B                           | Special Prog Req | C                | Mandatory Advising Required |

## TERM 5 – TOTAL CREDIT HOURS: 5.5

|   | <u>Credits</u> | <u>Pre-Requisite/Co-Requisite</u> | <u>Area</u>      | <u>Min Grade</u> | <u>Milestones and Notes</u> |
|---|----------------|-----------------------------------|------------------|------------------|-----------------------------|
| AC 231B Building Auto Networks & Prog   | 5              | AC 230B and CIT 119 and MT 115B   | Special Prog Req | C                |                             |
| AC 100B Technician Certification Review | .5             | None                              | Special Prog Req | C                | Apply for Graduation        |

