

(H80) Certificate

This program prepares students to enter the work force as solar energy installers and technicians. They will have knowledge in electrical, electronics, and fluid power components and acquire troubleshooting skills on those components. Students completing this program may pursue certification in their field.

Work and Employment

Students completing this program are prepared to work as field service technicians, installers, or manufacturing technicians.

Special Considerations

Workers usually have the following skills and aptitudes; the ability to do precise and detailed work, use good eye-hand coordination, notice and compare differences in objects, have mathematical and mechanical aptitudes, are analytic, curious and creative.

Program Contacts at Sauk Valley Community College

Academic Advising, 815/835-6354;

Christopher Carlson, Professor of HVAC, 815/835-6221;

Steven McPherson, Associate Professor of Electronics/Technology, 815/835-6347.

Major Field Requirements

- EET 110 - Introduction to Digital Electronics 4 Semester hour(s)
- EET 245 - Programmable Controllers 3 Semester hour(s)
- ELT 120 - Fundamentals of Electricity with Applied Mathematics 3 Semester hour(s)
- ELT 261 - National Electric Code 3 Semester hour(s)
- ENE 130 - Photovoltaics 3 Semester hour(s)
- ENE 135 - Renewable Energy** 3 Semester hour(s)
- ENE 140 - Solar Thermal Energy** 3 Semester hour(s)
- IND 108 - Introduction to CAD 2 Semester hour(s)
- IND 118 - Mechanical Systems 3 Semester hour(s)

Total Hours Required for Certificate: 27

Note:

Suggested Program

First Semester - Sem/Hrs: 13

- EET 110 - Introduction to Digital Electronics 4 Semester hour(s)
- ELT 120 - Fundamentals of Electricity with Applied Mathematics 3 Semester hour(s)
- ENE 135 - Renewable Energy** 3 Semester hour(s)
- IND 118 - Mechanical Systems 3 Semester hour(s)

Second Semester - Sem/Hrs: 14

- EET 245 - Programmable Controllers 3 Semester hour(s)
- ELT 261 - National Electric Code 3 Semester hour(s)
- ENE 130 - Photovoltaics 3 Semester hour(s)
- ENE 140 - Solar Thermal Energy** 3 Semester hour(s)

- IND 108 - Introduction to CAD 2 Semester hour(s)

Footnotes

**These courses not currently being offered.

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