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Tech 1010

Bret Swab

Research: Engineering Technologies

An Associate in Pre-Engineering - Computer and Electrical Engineering Emphasis is a two-year degree that allows one to start on their path as a full engineer with a bachelor's degree. This degree helps to familiarize one with many of the core mechanics of computer engineering. Classes like Circuit theory, computer networks, and Calculus III are some of the many classes that will aid the student in future endeavors if they choose to go with a bachelor's degree or continue onto their field of choice.

This degree leads an engineer to work on the physical computer systems (hardware) themselves rather than software. Building new systems to solve the ever-changing landscape of the future. Creating new technologies for hospitals, the aeronautics industry, the military, and more. Not only can it lead to the creation of new products but new hardware for those systems to use. Creating new robots that can lift heavier weights, new touch screen interfaces, developing new supercomputers, and the list goes on.

The student can expect this degree to allow them into entry-level positions in a wide range of fields including in the government, scientific, and business fields respectively. You can expect to earn between \$33,000 and \$74,000 yearly depending on the position.

Bibliography

Career Profiles. "Associate of Engineering or Associate in Electronics Engineering Technology Degree." *Career Profiles*, CareerProfiles.info, 2021, <https://www.careerprofiles.info/associate-of-engineering-degree.html>. Accessed 25 February 2021.

The Ohio State University. "What is ECE?" *The Ohio State University College of Engineering*, The Ohio State University, 2021, <https://ece.osu.edu/futurestudents/what>. Accessed 25 February 2021.

Utah Valley University. "Associate in Pre-Engineering - Computer and Electrical Engineering Emphasis, A.P.E." *UVU Catalog*, Utah Valley University, 2021, <https://www.uvu.edu/catalog/current/departments/engineering/associate-in-pre-engineering-computer-and-electrical-engineering-emphasis-ape/>. Accessed 25 February 2021.