



**VINCENNES
UNIVERSITY**

Electronics Fundamentals

Certificate of Graduation

Courses begin January 8, 2018 at WestGate

Grant Funding is Available to Qualified Applicants

Course Schedule: Monday, Wednesday and Thursday from 6 - 9 pm

Basic Component and Circuit Analysis (ELEC110)	Jan 8 - Mar 15
Digital Logic (ELEC130)	Mar 19 - Jul 19
Linear Circuits (ELEC151)	Jul 23 - Oct 18
Digital Logic II (ELEC180)	Oct 22 - Dec 20

All four classes must be completed, in addition to general education courses in order to receive the Certificate of Graduation.

[Click Here for Full Program Requirements](#)

- ▶ **No previous experience in electronics required**
- ▶ **All tools and parts needed for classes are provided**
- ▶ **High school diploma or equivalent required for registration (except current high school students)**

To Register, or for More Information:

events@stimulusengineering.com

812-863-2756

POC: Kim Frazier

Classes will be held at the

Battery Innovation Center



7970 S. Energy Drive, Newberry, IN, 47449

***For a GPS use "Crane, IN"**

Electronics Fundamentals

Certificate of Graduation (8369)

Program Details

About the program:

This one-year program provides you with a comprehensive introduction to all areas of electronics (AC/DC, digital circuits, and linear electronics) in classrooms and through the hands-on use of multi-meters, oscilloscopes, function generators, power supplies, and soldering techniques in the lab. Graduates are prepared to work in a variety of entry-level positions in the electronics industry and can lead to employment as electronics assemblers and fabricators, electronics installers and repairers, field and bench technicians or electronics engineering assistants. Graduates of this program typically work in manufacturing settings, telecommunications, transportation, utilities, research and development laboratories, the federal government and many other industries.

According to the US Bureau of Labor Statistics (www.bls.gov) annual wages for electronics installers and repairers ranges from \$31,000 to \$73,000 annually and overall job opportunities should be excellent for qualified workers with technical education.

An earned certificate is equivalent to completing the first year of an associates degree program. Graduates will be eligible to transfer to two-year programs for Electronics Technician or Biomedical Equipment Technician.

Course Descriptions:

ELEC110: Develops an understanding of basic DC and AC theory with mathematical analysis. Emphasis is on the function and characteristics of electronic components, basic circuit configurations, RCL circuits, vector analysis and resonance.

ELEC130: An introduction of fundamental digital electronic devices and circuits, including TTL logic, binary numbers, codes, and combinational logic circuits.

ELEC151: The theory, application, and design using transistors and operational amplifiers including power transistors, FET's and other linear integrated circuits such as oscillators, timers and other specialized circuits. Emphasis is placed on biasing, troubleshooting, and testing of transistors and op-amp circuits.

ELEC180: A course in digital electronics systems including counters, registers, decoders, digital to analog, analog to digital converters, and storage devices. Complete systems such as digital voltmeters, frequency counters, and digital clocks.

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