

ELECTRONICS

Faculty

Arndt, Blesi, M. Graham

The electronics technology department offers courses that are designed to provide students with the knowledge and skills that lead to employment and advancement in the electronics industry. The electronics technology degree will also transfer to a four-year college for additional training in electronics technology.

Associate of Applied Science Degree Electronics Technology

(Recommended Curriculum)

General Education (Minimum 17 credits) Credits

General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation (One course minimum)
2. Communication
 - Written or spoken communication 3
3. Relationship with the World (One course minimum)
 - Human behavior
 - U.S. and Wyoming constitutions 1-3
 - Cultural environment
4. General Education Electives
 - Must be chosen from areas 1, 2, or 3 above.
5. Physical Education 1

Major Requirements

ELTR 1535 Electric Power	3
ELTR 1570 Electrical Circuits	4
ELTR 1605 Process Control	3
ELTR 1620 Electrical Concepts Laboratory	1.5
ELTR 1700 Introduction to Solid State Electronics	4
ELTR 1750 Electronic Design and Fabrication	2
ELTR 1760 Introduction to Digital Electronics	4.5
ELTR 1770 Microprocessor Fundamentals	4.5
ELTR 2600 Electronic Communications	4.5
ELTR 2610 Advanced Microprocessors	3
ELTR 2815 Programmable Logic Controllers	4
ELTR 2870 CCD Cameras and Security Systems	2
ELTR 2910 Computer Networking	2
ELTR 2920 Small Computer Repair Techniques	3.5
ELTR 2925 Fiber Optics	4

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Associate of Applied Science Degree Manufacturing Technology

See Manufacturing Technology section for recommended curriculum.

Computer Electronics Certificate

(Certificate Requirements)

(30 credits minimum)

ELTR 1750 Electronics Design and Fabrication	2
ELTR 1760 Introduction to Digital Electronics	4.5
ELTR 1770 Microprocessor Fundamentals	4.5
ELTR 2610 Advanced Microprocessors	3
ELTR 2870 CCD Cameras and Security Systems	2
ELTR 2910 Computer Networking	2
ELTR 2920 Small Computer Repair Techniques	3.5
ELTR 2925 Fiber Optics	4

Optional Courses

CMAP 1610 Windows I	2
Approved Electives	3-4

For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Industrial Electronics Certificate

(Certificate Requirements)

(30 credits minimum)

ELTR 1535 Electric Power	3
ELTR 1570 Electric Circuits	4
ELTR 1605 Process Control	3
ELTR 1620 Electrical Concepts Lab	1.5
ELTR 1700 Introduction to Solid State Electronics	4
ELTR 1750 Electronic Design and Fabrication	2
ELTR 1770 Microprocessor Fundamentals	4.5
ELTR 2815 Programmable Logic Controllers	4
ELTR 2925 Fiber Optics	4

Optional Courses

DESL 1850 Basic Hydraulics	3
ELTR 2910 Computer Networking	2

For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Manufacturing Technology Certificate

See Manufacturing Technology section for Certificate Requirements.

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS, ASSOCIATE OF SCIENCE, ASSOCIATE OF BUSINESS, ASSOCIATE OF FINE ARTS AND ASSOCIATE OF APPLIED SCIENCE DEGREES.