

Advanced Automotive Service Technology Short-Term Certificate 470604 AAS

Available: Shoals Campus
 Advisors: A. Austin (5449) aaustin@nwsc.edu
 J. Hackworth (5335) joehackworth@nwsc.edu

This short-term certificate prepares students to use electronic service equipment and investigate the areas of specialization. A more intensive career preparation is provided through a combination of classroom instruction and hands-on practice. Curriculum is updated frequently to reflect changing technology and equipment. Knowledge of the basic principles of electronics and electrical systems is included in the program design for automotive service technicians. Successful graduates may become certified by Automotive Service Excellence (ASE) in specific service areas after 2 years of experience and passing a written examination. Completion of an automotive mechanic program in high school, vocational or community college may substitute for 1 year of experience.

Completion of Basic Auto Mechanics is recommended prior to enrollment in Advanced Auto Mechanics. A high school diploma or GED is not required for admission to this program. Students must be at least 16 years of age to enroll.

Entering students are required to complete ORT 100. Transfer students are exempt from this requirement.

	Semester		
	Theory	Lab	Hours
AUM 210 Electrical and Electronics Systems II	1	4	3
AUM 220 Engine Repair II	1	4	3
AUM 224 Manual Transmission & Transaxle	1	4	3
AUM 230 Auto Transmission & Transaxle	1	4	3
AUM 239 Engine Performance I	1	4	3
AUM 244 Engine Performance II	1	4	3
AUM 246 Automotive Emissions I	1	4	3
AUM 281 Special Topics	1	4	3

Total Semester Credit Hours 24

*Transfer Credit: Students may receive up to one semester of Advanced Placement for Career Technical coursework completed at another school.

**A high school diploma or GED certificate is not required for admission to this program. Students must be at least 16 years old to enroll.

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Biomedical Equipment Technology Short-Term Certificate 150401 BET

Available: Shoals Campus
 Advisor: R. Reaves (5201) rgr@nwsc.edu

This advanced certificate, in addition to the Electronics Technology Associate in Applied Science Degree, will prepare the student for employment in both the medical and industrial settings as biomedical equipment technicians. The increasing complexity of biomedical equipment demands the availability of highly skilled technicians, knowledgeable in the theory of application, underlying physiological principles, and safe application of biomedical equipment. To enter this certificate program, the student must have program advisor approval and have satisfactorily completed the requirements for the Electronics Technology AAS Degree at the College.

	Semester		
	Theory	Lab	Hours
BIO 103 Principles of Biology I	3	2	4
ILT 169 Hydraulics/Pneumatics	3	0	3
ILT 203 Biomedical Electronics I	3	0	3
ILT 204 Biomedical Electronics II	3	0	3
ILT 226 BMET Certification Preparation or Certification Preparation Elect.	3	0	3
ILT 294 Biomedical Electronics Clinical I	0	10	3
ILT 295 Biomedical Electronics Clinical II	0	10	3
Total Semester Credit Hours			22

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