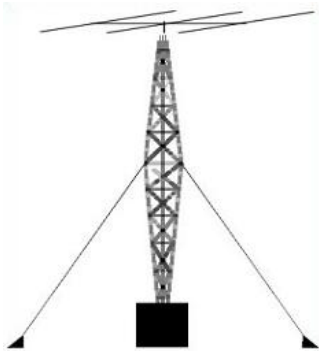


Experience Amateur Radio!



- ◆ Talk to other radio amateurs in western Pennsylvania and all over the world!
- ◆ Learn about and use the latest technologies and science: wireless, computer technology, digital and analog electronics, repeaters, space weather, and satellite communication!
- ◆ Communicate using digital computer, single sideband or FM radiotelephone voice, and Morse radiotelegraph modes!
- ◆ Build your own equipment if you wish, or use commercially-manufactured gear. Modify your equipment to improve performance and convenience.
- ◆ Talk to Astronaut-hams on the International Space Station!



A great way to get started toward a career in science and technology:

- ◆ Many college scholarships are available to licensed hams.
- ◆ Many Nobel Prize winners started as hams, and went on to earn prizes in physics, chemistry, and medicine.
- ◆ Many hams have earned technical Emmy® awards for developing radio and television broadcast technology.
- ◆ The first radio telescope was developed by a ham!
- ◆ Most International Space Station astronauts are hams!
- ◆ Steve Wozniak, the engineer who developed the first Apple computer, is a ham!
- ◆ Locally, members of the Butler County Amateur Radio Association include engineers, chemists, physicians, science teachers and science professors, recording engineers, computer technicians, computer network engineers, and mathematicians.
- ◆ But hams come from all walks of life: homemakers, mill workers, students, sales representatives, construction workers, teachers, actors, musicians, politicians, truck drivers, retired people, and more! Once there was a ham living in the White House, several

kings are hams, and one priest-ham became a Catholic saint!

Ham equality: Hams address each other by first name, whether the ham is a student or teacher, laborer or king, senator or President's son! On the air, you are the equal of any ham!

No Age Restrictions: if you can pass the exam, you get a license and your own official FCC call sign, with authority to transmit on the high frequency (HF or shortwave) and VHF (very high frequency) and UHF (ultra high frequency) Amateur Radio bands.

The Exam: FCC exams are administered locally by volunteer examiners who are licensed Radio Amateurs.

The Technician Class exam consists of 35 multiple-choice questions chosen randomly from a pool of 412 questions covering U.S. and international radio regulations, radio operating procedures, electronics, radio-wave propagation, and antennas.

An FCC Technician-Class exam will be scheduled at the end of the course. Special arrangements can be made for those who cannot attend the scheduled exam.

Callsigns: Once you pass your Technician-class exam, the FCC will assign a callsign, such as *KC3ABC*, for your station.

After the Exam: Getting on the air isn't always easy. No two hams are interested in exactly the same aspects of radio, so there can be no single "how-to" book for getting on the air.

Most successful hams got started with the aid of an *Elmer*, an experienced ham who spent time helping the beginner. The instructors will continue to be available after the course is over to assist you in acquiring equipment and getting on the air.

Radio clubs can be very helpful for new hams. The Butler County Amateur Radio Association meets on the second Tuesday of each month, and all are welcome, licensed or not, members or not.

- To register, send the following information to Library Director Tiffany Frampton at srcl@bcfls.org, 724-738-9179, or mail it to
- Slippery Rock Community Library
P.O. Box 25
Slippery Rock PA 16057
- Name _____
- Address _____
- City _____
- State _____ Zip _____
- I am a middle-school student
 high school student
 retiree other adult

Principal Instructor: Michael P. Conlon, Professor Emeritus of the SRU Computer Science Department and a ham since 1962, holds an Amateur Extra license and the callsign *N2EM*. A certified secondary-school math teacher and a Registered Licensing Instructor with the American Radio Relay League, he holds a B.S. in math education, an M.S. in computer science, and a Ph.D. in engineering. He has taught middle school through college from 1970 to 2016, and has FBI, PA State Police, and PA Social Services clearances. Contact him at N2EM@arrl.net or 724-496-3008.

**Want more information?
Can't wait to get started?
Check out these websites:**

American Radio Relay League, the national organization for Amateur Radio: www.arrl.org

Butler County Amateur Radio Association: W3UDX.org

Complete list of exam questions for the technician-class license: ncvec.org/page.php?id=373

Choose the file, "*Technician Pool and Syllabus 2022-2026 Public Release Errata March 7 2022.pdf*" Questions start on p. 5.

Take a practice FCC exam, with real questions: arrlexamreview.appspot.com



Slippery Rock Community Library
and the
Butler County Amateur Radio Assn.
in cooperation with the
American Radio Relay League
present

Amateur (Ham) Radio License Preparation Classes

**Earn your Federal Communications
Commission (FCC)
Amateur Radio License!**



Classes: Saturdays, Sep. 17 through Dec. 17, 9:00-10:30 a.m. at the Slippery Rock Community Library, 465 North Main Street, Slippery Rock.

Ages: Recommended for 6th grade through adult. While there are no age restrictions for Amateur Radio licensing, generally 6th graders and up have the maturity needed to pass the exam.

Cost: Textbook, \$30; less if ordered through the instructor. License exam fee, \$15. FCC application fee, \$35; rebated for youth. No charge for the course itself.