



Amateur Radio GENERAL License Course



Bob Phinney - K5TEC
Teacher/Administrator - Dexter Southfield School for 38 years
Founder of Clay Center Amateur Radio Club
Founder of New England Amateur Radio
Founder of New England SciTech, Learning Center and Maker Lab
FCC authorized volunteer examiner for American Radio Relay League

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About your presenter, Bob Phinney



Started teaching at Dexter Southfield in 1978

Founded the Dexter Science and Technology Camp in 1997 - added radio electronics to the curriculum

Became an amateur radio operator in 2004

Founded the Clay Center Amateur Radio Club in 2004 - over 360 members when it closed; a third are/were youth members

Joined the Brookline Police CERT Team in 2011



A little bit about your presenter, **Bob Phinney**



Founded New England Amateur Radio in 2014 to help sponsor amateur radio training in schools and public service departments

Founded New England SciTech, a learning center and high-tech maker lab located in Natick, in 2018

Is an FCC authorized volunteer examiner for the American Radio Relay League



Course Outline



FCC Rules and Definitions (§G1)

Radio Operating Procedures (§G2)

Radio Wave Propagation (§G3)

Electrical Components and Functions (§G6)

Electrical Principles (§G5)



Course Outline



Signals and Emissions (§G8)

Practical Circuits (§G7)

Station Setup and Best Practices (§G4)

Antennas and Feedlines (§G9)

Electrical and RF Safety (§G0)

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What You Should Know



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Outside studying and test practicing is recommended.

Active participation during class is vital to learning the material to get your license.

This course will give a brief overview of everything you will need to pass your test.

Full understanding of every concept is not required nor expected!

You will gain more experience as you explore all that amateur radio has to offer.

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What You Should Know



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Items with solid bullets (•) are required information to pass the test.

Items with hollow bullets (\circ) are additional information that is helpful to know but is not on the license exam.

Occasionally a word or short phrase will be in *italics*. These are short word answers to test questions.

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Sample Questions



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After a set of material is presented, a sampling of the relevant test questions will be presented.

The header will contain the test question number, i.e. G5A03, which is question pool 5, section A, question 3.

Sometimes the header will contain references in square brackets. These refer to the FCC rules that are relevant to the question, i.e. [97.301(d)].

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Steps to getting your license



Take practice exams so you are familiar with the questions and the answers.

Pass the 35-question multiple choice test.

You need only 26 right to pass - 74%. Questions will come from the same pool that we'll be reviewing here.

Morse code is no longer required.



What does my license give me?



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When you receive your amateur radio GENERAL license you will legally be allowed to:

Transmit on any allowed frequency for your GENERAL license.

Build and operate your own radio of your own design that can be built from scratch without it needing FCC approval.

Have fun with your new license privileges!





Let's get started!