

Amateur Radio Technician License Course Outline

Amateur Radio Club of Columbia County, Inc.

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Instructors:

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Course Objective:

This course has two objectives:

1. The student should be able to pass the FCC Technician License Exam (Element 2), qualifying for the first level FCC Amateur Radio License.
2. The student should have sufficient knowledge to operate an amateur radio station on the Technician frequency allocations above 50 MHz.

Philosophy:

This is a highly compressed course that depends on the focus and motivation of the student. Reading assignments must be done in advance of the classroom sessions. The classroom sessions are fast paced, covering a wide variety of material in a short time. The use of practice exams is very important for evaluating topic areas that need attention.

Costs (Estimated):

1. \$0 – There is no cost for the course.
2. \$21 – Students are required to purchase their own copy of the study guide prior to the course.
(The ARCCC, Inc. is usually able to obtain discounted copies of the book for courses.)
3. \$15 – Examination Fee at the end of the course.
4. \$35 – Pay FCC Licensing Application Fee to be paid online after successful completion of the examination.

Reading Material:

Required: [Ham Radio School Technician License Course](#) by Stu Turner, WØSTU (\$19.95).

We usually purchase these books in bulk and receive a discounted price.

Be sure you obtain the 2022-2026 question pool edition, as shown here.

Practice Exams

These online practice exams are extremely helpful for testing your knowledge:

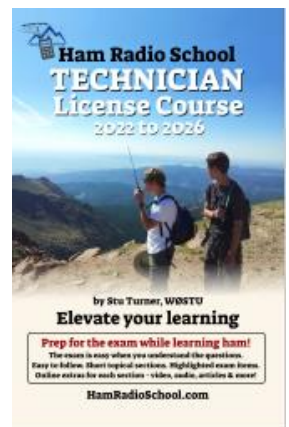
Book Section Quizzes and full 35-question practice exams:

<https://www.hamradioschool.com/section-quizzes>

Additional practice exams found at:

<https://www.qrz.com/hamtest/> <https://www.eham.net/exams/> <http://aa9pw.com>

The aa9pw.com site requires an account registration to access exams.



Schedule:

There is approximately 10-12 Hours worth of compressed material to present not including the examination. The organizational meeting will be scheduled with potential students and instructors and the schedule of the course will hopefully be determined at that time. Once the meeting dates/times are determined, a schedule of the Topics below will be created to efficiently utilize the classroom time. Students will be notified of what material should be read prior to attending the upcoming class.

Note: Specific section instructor(s) may vary and start/end times are estimates:

Chapter	Topics	Instructor	Pages	Duration	Start Time	End Time
	Welcome and Course Overview	TBD		20 Min	8:00	8:20
0	Before We Begin	TBD	1 to 8	40 Min	8:20	9:00
1	Operating Your Radio	TBD	9 to 28	20 Min	9:10	10:30
2	FCC Rules and Regs	TBD	29 to 51	15 Min	10:40	11:55
3	Things to Do!	TBD	52 to 59	20 Min	12:55	1:15
4	Wavelength, Frequency & Bands	TBD	60 to 74	30 Min	1:15	1:45
5	Signal Propagation	TBD	75 to 80	30 Min	2:00	2:30
6	Processing Signals	TBD	81 to 105	60 Min	2:30	3:30
7	Antennas	TBD	106 to 126	60 Min	3:40	4:40
8	It's Electric!	TBD	127 to 146	40 Min	8:10	8:50
9	Hamtronics	TBD	147 to 160	45 Min	8:50	9:35
10	Digital Modes	TBD	161 to 168	35 Min	9:45	10:20
11	Space Contacts	TBD	169 to 175	25 Min	10:20	10:45
12	Avoiding Interference	TBD	176 to 188	40 Min	10:55	11:35
13	Safety	TBD	189 to 205	50 Min	11:35	12:25

FCC Exam Session – At the End of the Course

The CSRA Ham Exams *Volunteer Examination Team* will conduct the FCC license exams. A \$15 fee is charged for this exam session. If you fail the first exam, another attempt is allowed during the same test session, but another \$15 payment will be required. Identification Required: Government Issued Photo ID (driver's license, student ID, military ID, passport). Students may bring a school ID and/or a written note from legal guardian.

A conventional calculator with the memory cleared is allowed (and recommended). No cell phone use is allowed. You may not bring any written notes or calculations into the exam session.

Before the exam session please register with the CSRA Ham Exams team at <https://www.csrahamexams.com/register-for-exam/>. Registration is required as it provides all the details and prerequisites needed prior to the examination.

Course Location

Vineyard Church of Augusta
3126 Parrish Road
Augusta, GA 30907