

Signals Exploitation and Analysis Research Cyber Hub (SEARCH)

DRAFT Fall 2024 Schedule

Revision: 25 June 2024

This is a purely DRAFT proposed schedule for the Fall 2024 semester to provide some examples of what would be expected for discussions/projects/etc.

There is sufficient space in the below schedule to account for other topics as deemed advisable by the students, etc. It is just a boilerplate.

Week	Topic	Date	Comments	Instructor/Leader	Location
1	CISRC Call to Order	TBD	SEARCH Call to Order, introductions, Election of Officers as required, scheduling discussion, etc.	Justin	TBD
2	The Electromagnetic Spectrum and Radio Systems	TBD	The fundamentals of radio systems, components, antennas, electromagnetic energy, etc.	Chief/Justin	TBD
3	Ham Radio	TBD	The FCC Rules, Training, Testing, and Application process	Justin	TBD
4	Software Defined Radio (SDR)	TBD	The fundamentals of SDR, introduction to equipment, software, and any required programming/configuration	Chief/Justin	TBD
5	The Electromagnetic Spectrum and Radio Systems	TBD	Continuation of the fundamentals of radio systems, components, antennas, and electromagnetic energy, etc.	Chief/Justin	TBD
6	Electromagnetic Spectrum Communications and Intelligence	TBD	The application of electromagnetic based systems for communications and intelligence collection	Chief/Justin/Chris	TBD
7	Wireless Digital Communications Technologies	TBD	The fundamentals of digital wireless communications system including Cellular and WiFi	Chief/Justin/Chris	TBD
8	Wireless Digital Communications Technologies	TBD	Introduction to and the basics of the Hak5 WiFi Pineapple Collection System	Chief/Justin/Chris	TBD
9	TBD	TBD	TBD	TBD	TBD
10	TBD	TBD	TBD	TBD	TBD

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11	Field Trip	TBD	Use of the SDR/WiFi Pineapple for intelligence collection and reporting	Chief/Justin/Chris	TBD
12	Wrap-Up	TBD	Lessons Learned, Planning for Following Semester, etc.	TBD	TBD