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Outline: (Roughly)

- (1) Classical field theory (Euler-Lagrange etc.)
- (2) Dirac and Klein-Gordon equations. (Classical.)
- (3) Yang-Mills stuff. ($U(1)$ is Maxwell.)
- (4) Perturbative field theories, Feynman diagrams etc.
- (n) Get physicists to give talks.

Resources:

QFT and Strings for Mathematicians.

Zee, QFT in a Nutshell.

Peskin and Schroeder, QFT.

Banks, Modern QFT.