

Physics 3 "Modern Essentials"

Excited to teach this course!

Pretty clearly Best Physics course offered
(\hookrightarrow As you will see ...)

Subject matter intently intensity / Crazier than Science Fiction
(time travel, Parallel universes)
and has enormous
reach / impact on the way we live

- Changed the way we think about Science/Physics
Went from knowing almost nothing about our everyday
lives (1920's) to knowing almost everything

- Completely changed Society

- Electronics
- Communication
- Warfare
- ect.

Start by unpacking the name

- Unusual but fitting name (unpack)
- "Physics 3" appropriate / not typical
 - Assumes knowledge of Physics 1+2, but doesn't build on them, replaces (over-rides them)
- Course really about "Revolution in Physics"

Space-time Q. M.

- "Modern"
 - Many different meanings of modern
 - "post-Industrial revolution" vs "like the iPhone"

Both usages are fitting

-> Revolution happened in early 20th C

-> They are directly responsible (Esp QM) for the modern | economy
world
cat

- "Essential"

- Understand modern economy
- Modern view of the world (Still some disagreement here actually...)
- Conception of Science / Physics
- Physics at the heart of Drama in developing SM
+ understanding what lies beyond

Why ST & QM such a big deal?

Story starts w/ Newton. Newton's Dream

↓ ↓ ↓ - Unification