

# Nuclear Engineering 101: Final Study Guide

**Disclaimer:** This is not an official study guide. Stuff ~~might~~ **is** wrong. Use the lecture notes and book!

## Contents

### 1 Nuclear Fuels

#### 1.1 Types

- Metallic: U and Pu-based. Advantages: high thermal conductivity, high fissile atom density, easy to fabricate. Issues: low melting points, unstable in irradiation, poor corrosion resistance.
- Ceramic:  $\text{UO}_2$ , UC, UN, etc