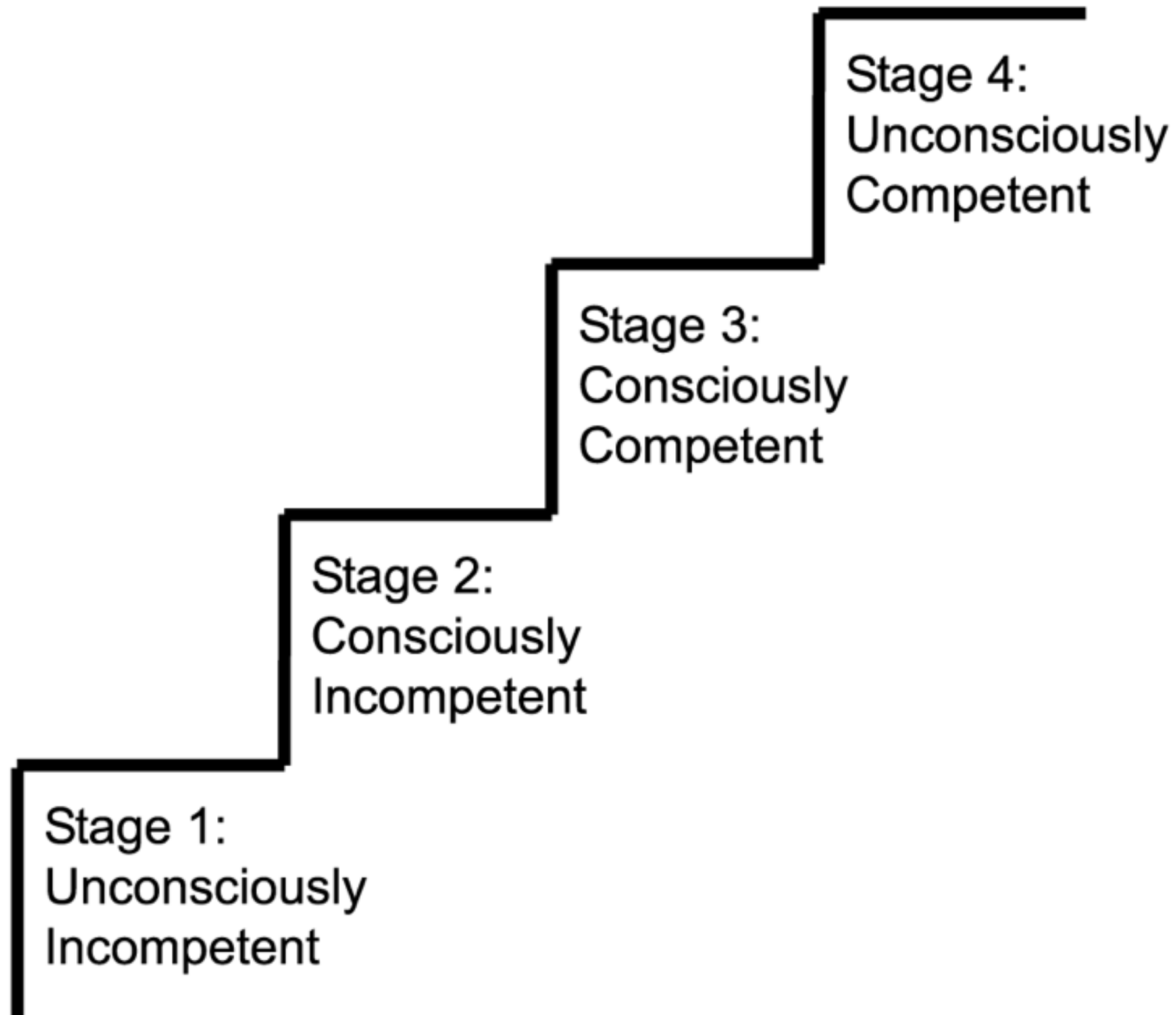# Course Components

- **Lectures:** These are pre-recorded videos and include slides and demonstrations using jupyter notebooks

- **Workshops:** During workshop sessions you will work with a GSI on interactive/supervised activities in small groups using jupyter notebooks

  - Extremely important: can only learn python by doing

- **Homework:** These are more challenging exercises designed to deepen your practice in python

  - Typically one homework assignment most weeks

- **Capstone Project:** Instead of a midterm or a final examination, during the last few weeks of the course you will work in small groups to develop a capstone project to pull together everything you have learnt during the course

# How You Should Learn



Stage 4:
Unconsciously
Competent

Stage 3:
Consciously
Competent

Stage 2:
Consciously
Incompetent

Stage 1:
Unconsciously
Incompetent

# How to Approach This Course

- Active Learning

  - Learn by

- Three main threads to the course

  -

  -

  -

- No single book covers all of it

  - Recommend three (Newman, Hughes & Hase, Kinder & Nelson)

  - Many online resources for each step

    - Book → Lecture → Workshop → HW → Book cycle applies