Yale Physics Ph.D. Program – Typical Timeline for Academic Requirements as a Graduate Student (Fall 2021 and beyond)

**Year 1**
- Summer Bootcamp:
  - The Bootcamp on Physics Fundamentals is an optional two-week program in August intended to help students review Quantum physics and Classical Mechanics before the first-year classes begin.
- First Semester:
  - Begin course requirements: Six foundational courses + one advanced elective + one PHYS 990: Special Investigations (SI) + two research seminars.
  - Required teaching: Teaching Fellows Program, 10 hrs/week
- Second Semester:
  - Common Course Load: PHYS 502: Electromagnetic Theory I + PHYS 510: Quantum Mechanics II + PHYS 512: Statistical Physics I + advanced elective or PHYS 990: Special Investigations (SI) + PHYS 590: Responsible Conduct in Research for Physical Scientists
  - Required teaching: Teaching Fellows Program, 10 hrs/week
  - Other Course Load Options
  - Complete Research Qualifying Event held at end of PHYS 990 course in term taken
- Summer:
  - Work as Assistant in Research to identify potential thesis research advisers
  - English language training to prepare for SPEAK test through the Center for Language Study (International students)

**Year 2**
- First semester:
  - Sit for Written Qualifying Event at the start of the Fall semester.
  - Required teaching: Teaching Fellows Program, 10 hrs/week
  - Once course requirements are finished, take desired advanced electives
  - Work as Assistant in Research to identify potential thesis research advisers
- Second semester:
  - Required teaching: Teaching Fellows Program, 10 hrs/week
  - Once course requirements are complete, take advanced electives as desired
  - Work as Assistant in Research to identify potential thesis research advisers
- Summer:
  - Finalize thesis adviser and begin dissertation research.

**Year 3**
- First Semester:
  - Sit for Written Qualifying Event portions and participate in Research Qualifying Event if not completed by end of second year
  - Preliminary Dissertation Research
  - Establish a 3 faculty “Core Thesis Committee”, including thesis adviser
- Second Semester:
  - Prepare Thesis Prospectus
  - Form 3-member core thesis committee
- End of Third Year/Summer:
  - Submit Thesis Prospectus with oral defense to the core thesis committee
  - Admission to Candidacy after Thesis Prospectus approval
  - Work with thesis adviser to complete initial Dissertation Progress Report (DPR) sent out by the Graduate School; due 30 days after Admission to Candidacy.

**Years 4 & 5**
- Continue dissertation research
- Identify 4th faculty member for core thesis committee
- Work with thesis adviser to identify an external reader for core thesis committee
- Meet with core thesis committee at minimum once a year to review and discuss progress towards dissertation; includes oral presentation of research progress to committee
- Complete Dissertation Progress Report (DPR) with thesis advisor; DPR is sent out by the Graduate School before April 1st of each year.

**Years 5+**
- Continue dissertation research
- Work with thesis adviser to complete the Dissertation Progress Report (DPR) sent out by the Graduate School before April 1st of each year.

When you and your advisor agree you are ready:
- Notify department of intent to submit dissertation by August for December degree or February for May degree (dates determined by Graduate School)
- Schedule Thesis Defense and oral examination by core thesis committee. Submit written dissertation to 4 internal core thesis committee members to read, 3 weeks in advance of scheduled defense. The Graduate School will send dissertation out to the external reader after the oral defense and official submission.
- Official submission of written dissertation to the Graduate School by October for December degree or March for May degree (dates determined by Graduate School)
- Reader’s reports from all core thesis committee members (including external reader) due one month after submission of written dissertation
- Degree awarded

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