

# Introduction to Nuclear and Particle Physics

**Course requirements**

**Helga Dénes 2023 S1 Yachay Tech**

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# Classes

Tuesday 2:00 PM - 3:59 PM B-103

Wednesday 2:00 PM - 3:59 PM B-103

Thursday 4:00 PM - 5:59 PM B-103

Attendance is not mandatory and it will not affect the grades.

If you decide that you do not want to take the class after all, make sure to unregister from the class. Otherwise the class will be failed.

# Syllabus

Topics:

Unit	Topic
1	Basic concepts
2	Nuclear structure
3	Nuclear decay and Radioactivity
4	Nuclear reactions
5	Elementary particle dynamics
6	Symmetries

# Syllabus

## Evaluation:

- Quizzes **40% of the grade**
- Midterm exam ~ *around the 4th of June 2023* **30% of the grade**
- Final exam ~ *around the 2nd of August 2023* **30% of the grade**

Exams, Quizzes will be announced in advance in class and via email.

# Academic integrity

Academic integrity is very important.

Cheating in exams will have a penalty of a score 0 for the full exam.

Cheating in the quizzes will have a penalty of a score 0 for the relevant part of the Quiz.

# Recommended reading

I am going to use material from these books for the class:

**Krane, Kenneth: Introductory Nuclear Physics.**

**Griffiths, David J.: Introduction to Elementary Particles**

**Perkins, Donald H.: Introduction to High Energy Physics**

There are also many other good books on the topic and plenty of online resources.

# Resources

My email: [hdenes@yachaytech.edu.ec](mailto:hdenes@yachaytech.edu.ec)

Please send me an email, so that I know who is in the class.

**Private GitHub** repository with slides and course information.

I will invite everyone, please let me know if you use a different email for GitHub, so that I can send an invite.

# Class representative?