Universidad de Navarra

Scientific research skills (F. Ciencias)

Guía docente 2026-27

INTRODUCTION

This subject comprises two modules: a practical module on presentation skills and a theoretical module based on selected scientific topics.

The **presentation skills** module aims to provide students with the language and presentation skills required to deliver their final year project in English to an academic jury .

The theoretical module is based on series of seminars in English on a wide range of scientific subjects. The **'Frontiers in Science**' seminar program is designed to provide the students with an opportunity to engage with and participate in current topics in science today.

- **Titulación**:
- **Módulo/Materia**:
- **ECTS**: 3
- **Curso, semestre**: 3º, 4º, primer y segundo semestre
- **Carácter**: Optativa
- **Idioma**: Inglés (Requirement: B2 level of General English; e.g. Cambridge First Certificate).

Módulo A: **Frontiers in Science**

- Profesor responsable: Angel Garcimartín Montero (Dpto. de Física y Mat. Apl.). e-mail: angel@unav.es
- Este módulo corresponde a un 30% de los ECTS de la asignatura. Hay 20 horas de clases presenciales. Se cursa en 3º.
- Lugar y horario para el curso 2026/27 :
  - 1er semestre, los lunes de 13:00 a 14:00, del 7 de Septiembre al 26 de Octubre, en el Aula 35 (Edif. Bibioteca de Ciencias)
  - 2º semestre, los viernes de 12:00 a 13:00, (fechas por confirmar)

Módulo B: **Presentation Skills**

- Profesor responsable: Dr Martín Aoiz (Instituto de Idiomas). e-mail: maoiz@unav.es
- Este módulo corresponde a un 30% de los ECTS de la asignatura. Hay 20 horas de clases presenciales. Se cursa en 4º
- Horario: Los jueves de 18:00 a 19.40 (sin descanso), del 14 de enero de 2027 al 18 de marzo de 2027.
- Lugar: Aula 16, Edificio Biblioteca de Ciencias.

RESULTADOS DE APRENDIZAJE (Competencias)

Knowledge

- To understand a scientific presentation.
- To learn scientific strategies.
- To acquire a basic knowledge of different scientific disciplines.
- To understand the difference between written and spoken discourse.
- To understand and use functional notions of language in spoken discourse.
- To understand, identify and use phonological features of spoken language.
- To understand basic slide design prinicples.
- To learn and use phrases used in transitions and referencing during a presentation.

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Skills

- To be able to get the most important messages after attending a seminar.
- To acquire the skills to ask questions in a public audience.
- To select, plan and organise material for an oral presentation.
- To implement slide design principles when creating a slide presentation.
- To match spoken commentary to projected slides.
- To acquire voice control during public speaking.
- To control body language in the delivery of a presentation.
- To implement techniques to create audience rapport.
- To manage time effectively during a presentation.
- To be able to answer and respond to questions effectively.

Learning Outcomes

- To be able to follow a mid-level scientific presentation and ask appropriate questions.
- To be able to successfully plan, prepare and deliver a scientific academic presentation based on a final year undergraduate research project.

PROGRAMME

Frontiers in Science Seminars (3rd year degree students)

For the year 2025/26, the seminars will be

- 1st semester: **Mondays**, at **Aula 35** (Edificio Biblioteca de CIencias), **from 13:00 to 14:00**.
- 2nd semester: **Fridays** at **Aula 35** (Edificio Biblioteca de Ciencias) **from 12:00 to 13: 00**.

Dates and speakers are listed below. The programme is still under development; some conferences may be updated or changed.

07-sep	**Sesión introductoria**	*Angel Garcimartín*
14-sep	**Cómo tomar apuntes de un seminario**	*José Ramón Isasi*
21-sep	**El cuaderno de laboratorio**	*José Antonio Rodríguez*
28-sep	**The genetic basis for cancer therapeutics**	*Rubén Pío*
05-oct	**The use of laboratory animals in biomedical research**	*Amaia Rodríguez*
19-oct	**Bioinformatics**	*Mikel Hernáez*
26-oct	**Gut Microbiota**	*Fermín Milagro*

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The conferences for the second semester are still being organised. The schedule below corresponds to the year 22/26

16-ene	**Research in neurodegenerative diseases**	*Marisol Aymerich*
23-ene	**Food security, climate change and the science behind**	*Johann Martínez Lüscher*
30-ene	**Engineering immunity: The rise of synthetic antibodies in cancer therapy**	*Antonio Pineda*
06-feb	**Frontiers in Ecology XVII**	*Arturo Ariño*
13-feb	**Cómo leer un artículo**	*Iker Zuriguel*
20-feb	**Química forense en obras de arte y patrimonio**	*Adrián Durán*
27-feb	--	--
06-mar	**Mesa redonda: la carrera investigadora**	*Idoia Ochoa*
13-mar	**Novel approaches for the treatment of cardiovascular diseases**	*Beatriz Pelacho*
20-mar	**Lecturas**	*Javier Novo*

Presentation Skills (4th year degree students)

1. Presentation Planning
2. Presentation Design
3. Presentation Language
4. Presentation Delivery
5. Presentation Questions

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ACTIVIDADES FORMATIVAS

Please see programme

EVALUACIÓN

FINAL DEGREE PROJECT: 40% of the mark.

FRONTIERS IN SCIENCE (30%)

20% of the mark: seminar attendance.

80% of the mark: final exam (multiple choice test with one question per seminar).

ENGLISH PRESENTATION SKILLS (30%)

The English Presentation Skills Module makes up 30% of the final course grade for the subject Scientific Research Skills, with 70% of the final course grade based on English Seminars and related activities.

The Presentations Skills module comprises submissions in every class (5%) and a final oral presentation in the second semester (5% slide presentation and 20% actual performance).

HORARIOS DE ATENCIÓN

Dr Martín Aoiz

- Teacher's Room at the Institute of Modern Languages, Edificio Amigos. Students should arrange a meeting (**maoiz@unav.es**)
- Before and after every session, the teacher will be available to discuss any academic matter with the students.

Angel Garcimartín Montero

- Office O-140, Dpto. de Física y Mat. Apl., Edificio Los Castaños.
- By arrangement (please email: angel@unav.es)

BIBLIOGRAFÍA

- Duarte, N. (2008) *Slide:ology* Sebastopol CA: O'Reilly Find it in the Library
- Lebrun J. (2010) *When the Scientist Presents* London: World Scientific Find it in the Library (electronic resource)
- Powell, M. (2016) *Dynamic Presentations* Cambridge: Cambridge Unviersity Press Find it in the Library
- Powell, M. (2015) *Presenting In English* Andoever: Heinle Find it in the Library
- Reynolds, G. (2012) *Presentation Zen* Berkely CA: New Riders Find it in the Library
- Zanders, E and Macleoad, L. (2018) *Presentation Skills for Scientists* Cambridge: Cambridge University Press Find it in the Libray

The essays by Edward Tufte concerning the display of scientific data are thought-provoking and challenging. You will probably find them both interesting and different:

- The visual display of quantitative information Localízalo en la Biblioteca
- Visual explanations: images and quantities, evidence and narrative Localízalo en la Biblioteca